MOUNT DIABLO UNIFIED SCHOOL DISTRICT

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

INCREMENT 2

01-121440

SYMBOLS

DRAFTING ITEMS

- DATUM - CONTROL POINT
- DIMENSION LINE AND TICK
- MATCHLINE - SEE: 1 / A101
- BREAK LINE
- 01.23.A KEYNOTE
- Name / Elevation PROJECT LEVEL MARKER
- 0 COLUMN GRID MARKER
- REVISION CLOUD
- 1 CMNT # REVISION TAG
- PROJECT NORTH — PROJECT NORTH ARROW
- 101AA DOOR MARK
- OUTLINE OF HIDDEN OBJECT, N.I.C. ITEM, REMOVED MATERIAL

VIEW REFERENCES

- 1 / A101 SIM — VIEW REFERENCE / SHEET REFERENCE
- 1 / A101 SIM — DETAIL VIEW
- 1 / A101 TYP. — SECTION VIEW
- A101 SIM — ENLARGED VIEW
- 1A / A-101 / 1A — INTERIOR ELEVATION; VIEW REFERENCE / SHEET REFERENCE
- 99 / A1-100 — EXTERIOR ELEVATION
- A — WINDOW MARK AND TYPE

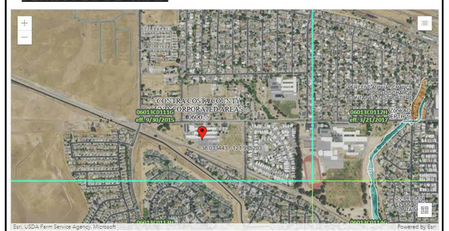
ABBREVIATIONS

@	AT	MATL	MATERIAL
℄	CENTER LINE	MAX	MAXIMUM
d	PENNY	MB	MACHINE BOLT
0#	POUND	MECH	MECHANICAL
⊥	PERPENDICULAR	MFR	MANUFACTURE OR MANUFACTURER
∠	ANGLE	MH	MAN HOLE
AB	ANCHOR BOLT	MIN	MINIMUM
AC	ASPHALTIC CONCRETE	MISC	MISCELLANEOUS
ACT	ACOUSTICAL CEILING TILE	MIR	MIRROR
AFF	ABOVE FINISH FLOOR	MTG	MOUNTING
ALT	ALTERNATE	N	NORTH
ALUM	ALUMINUM	(N)	NEW
ANOD	ANODIZED	NIC	NOT IN CONTRACT
APPROX	APPROXIMATE	NO OR #	NUMBER
ARCH	ARCHITECT OR ARCHITECTURAL	NTS	NOT TO SCALE
BD	BOARD	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BLK(G)	BLOCK(ING)	OPNG	OPENING
BOB	BOTTOM OF BEAM	PL	PLATE OR PROPERTY LINE
BM	BEAM	PLAM	PLASTIC LAMINATE
CB	CATCH BASIN	PLAS	PLASTER (NUMBER - SEE SPECS)
CI	CAST IRON	PCC	PLAIN CEMENT CONCRETE
CJ	CONSTRUCTION JOINT	PLYWD	PLYWOOD
CLG	CEILING	PNT	PAINT (NUMBER - SEE SPECS)
CLR	CLEAR	PTD	PAPER TOWEL DISPENSER
CMU	CONCRETE MASONRY UNIT	PTDF	PRESSURE TREATED DOUGLAS FUR
CO	CLEAN OUT	QT	QUARRY TILE
COL	COLUMN	RD	ROOF DRAIN
CONC	CONCRETE	REF	REFRIGERATOR
CONT	CONTINUOUS	REINF	REINFORCE OR REINFORCING
CSK	COUNTERSINK	RH	ROUND HEAD
CW	COLD WATER	RM	ROOM
CH	CHANNEL	RO	ROUGH OPENING
DBL	DOUBLE	S	SOUTH
DEPT	DEPARTMENT	S.C.D.	SEE CIVIL DRAWINGS
DET	DETAIL	SCH	SCHEDULE
DF	DRINKING FOUNTAIN	SD	STORM DRAIN
DIA	DIAMETER	S.E.D.	SEE ELECTRICAL DRAWINGS
DIAG	DIAGONAL	SHR	SHOWER
DN	DOWN	SHT	SHEET
DS	DOWNSPOUT	SHTHG	SHEATHING
DWG	DRAWING	SIM	SIMILAR
E	EAST	S.L.D.	SEE LANDSCAPE DRAWINGS
(E)	EXISTING	SMACNA	THE ARCH SHEET METAL MANUAL
EB	EXPANSION BOLT	S.MP.D	SEE MECHANICAL/PLUMBING DRAWINGS
EJ	EXPANSION JOINT	SPEC	SPECIFICATION
ELEV	ELEVATION	SQ	SQUARE
ELEC	ELECTRIC(AL)	S.S.D.	SEE STRUCTURAL DRAWINGS
EP	EDGE OF PAVING	SSTL	STAINLESS STEEL
EQ	EQUAL	STD	STANDARD
EQUIP	EQUIPMENT	S.T.D.	SEE TECHNOLOGY DRAWINGS
FD	FLOOR DRAIN	STL	STEEL
FE(C)	FIRE EXTINGUISHER (& CABINET)	SUSP	SUSPENDED
FF	FINISHED FLOOR	SYM	SYMMETRICAL
FG	FINISHED GRADE	TSCD	TOILET SEAT COVER DISPENSER
FH	FLAT HEAD OR FIRE HYDRANT	TOB	TOP OF BEAM
FIN	FINISH	TOC	TOP OF CURB OR TOP OF CONCRETE
FL	FLOW LINE	TCB	TOP OF CATCH BASIN
FLG	FLASHING	TEL	TELEPHONE
FLR	FLOOR	TEMP	TEMPERATURE OR TEMPERED
FOC	FACE OF CONCRETE	T&G	TONGUE & GROOVE
FOF	FACE OF FINISH	TP	TOP OF PAVING
FOM	FACE OF MASONRY	TS	STRUCTURAL TUBING
FOS	FACE OF STUD	TTD	TOILET TISSUE DISPENSER
FRP	FIBERGLASS REINFORCED PANEL	TV	TELEVISION
FT	FOOT OR FEET	TOW	TOP OF WALL
FTG	FOOTING	TYP	TYPICAL (ITEMS TYPICAL UNLESS SHOWN OR NOTED OTHERWISE)
GA	GAUGE	UON	UNLESS OTHERWISE NOTED
GALV	GALVANIZED	VCT	VINYL COMPOSITION TILE
GB	GRAB BAR, GRADE BREAK	VERT	VERTICAL
GL	GLASS	VGDF	VERTICAL GRAIN DOUGLAS FIR
GLB	GLUE LAMINATED BEAM	VTR	VENT THRU ROOF
GYP	GYPSUM	W	WEST
GWB	GYPSUM WALL BOARD	WC	WATER CLOSET
HB	HOSE BIBB	W.C.	WHEELCHAIR ACCESSIBLE
HDR	HEADER	WD	WOOD
HGT	HEIGHT	WF	WIDE FLANGE
HORIZ	HORIZONTAL	WH	WATER HEATER
HSD	HAND SOAP DISPENSER	WP	WATERPROOF
HTR	HEATER	WS	WOOD SCREW
HVAC	HEATING/VENTILATING/AIR CONDITIONING	WSCT	WAINSCOT
ID	INSIDE DIAMETER	WWF	WELDED WIRE FABRIC
INSUL	INSULATION OR INSULATED	W/	WITH
INV	INVERT	W/O	WITHOUT
LAV	LAVATORY		

GENERAL PROJECT NOTES - K12

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR).
2. THE PROJECT MANUAL AND SPECIFICATIONS IN CONJUNCTION WITH THESE DRAWINGS AND REFERENCES SHALL FORM A PART OF THE CONTRACT AND SHALL BE REFERRED TO AS THE "DOCUMENTS." THE DOCUMENTS DEFINE THE WORK TO BE PERFORMED AS AGREED TO IN THE CONTRACT.
3. CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, T24 CCR.
4. A DSA CERTIFIED **INSPECTOR CLASS 3** SHALL BE EMPLOYED BY THE DISTRICT AND SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, T24, CCR.
5. APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
6. ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWING SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS.
8. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
9. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO ENSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK. SEE NOTE 4 FOR DSA INSPECTION REQUIREMENTS.
10. ANY DAMAGE DONE TO THE EXISTING CONSTRUCTION DURING THE COURSE OF THIS WORK SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
11. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
12. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO CCR TITLE 24, 2022 CBC SECTION 1616A.1.18 AND ASCE-7-16 SECTION 13.6 ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.
13. 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 THE STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED AS APPROVED BY DSA. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD ENGINEER. A COPY OF THE DRAWINGS APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
14. 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, 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.
15. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
16. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
17. DO NOT SCALE DRAWINGS, DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE. WHENEVER DSA FINDS ANY CONSTRUCTION WORK IS BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF THE CALIFORNIA BUILDING CODE AND THAT WOULD COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING, THE DEPARTMENT OF GENERAL SERVICES, STATE OF CALIFORNIA, IS AUTHORIZED TO ISSUE A STOP WORK ORDER PER SECTION 4-334.1 CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
18. TITLE 24 PARTS 1-5 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION
19. ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING MATERIALS INSTALLATION TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
20. PROJECT INSPECTION (PI) SHALL WITNESS AND VERIFY GROUNDING.
21. SUBSTITUTION OF PRODUCTS OR CONSTRUCTION PROCESS WHICH AFFECT THE STRUCTURAL SAFETY, FIRE AND LIFE-SAFETY, OR ACCESSIBILITY OF THIS PROJECT SHALL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.

FEMA FLOOD MAP





ZONE: X

PROJECT DESCRIPTION

INCREMENT 2 (THIS SET)

GENERAL ALTERATION OF CLASSROOM BUILDINGS 3, 4, 6, 8, 9, 10, 11 AND 12 CONSISTING OF:

- FLOORING IN-KIND REPLACEMENT
- FLOORING REPLACEMENT WITH NEW MATERIAL
- NEW CASEWORK WITH NEW ACCESSIBLE SINKS
- NEW LIGHTING
- NEW INTERIOR AND EXTERIOR PAINTING
- REPLACEMENT OF CEILING GLUE-UP TILES WITH NEW ACOUSTICAL PANELS
- REPLACEMENT OF TACKABLE WALL
- REPLACEMENT OF ALL EXTERIOR DOORS WITH NEW FRP DOORS
- HARDWARE REPLACEMENT AT ALL EXTERIOR DOORS
- WINDOWS AND CLERESTORY REPLACEMENT
- REPLACEMENT IN-KIND OF HVAC EQUIPMENT IN SOME BUILDINGS, EQUIPMENT TUNE-UP IN OTHERS.

ACCESSIBILITY UPGRADES
- RECONFIGURATION/ACCESSIBILITY UPGRADES AT TWO RESTROOM IN BUILDING 8 & 9.
- NEW OUTDOOR DRINKING FOUNTAIN WITH WATER BOTTLE FILLER
- ACCESSIBILITY UPGRADES AT KINDERGARTEN CLASSROOMS
- ACCESSIBILITY UPGRADES AT PARKING LOT, DROP-OFF AREA, AND CONCRETE WALKWAYS.

INCREMENT 1

GENERAL ALTERATION OF CLASSROOM BUILDINGS 1, 2, 5 AND MULTI-PURPOSE BUILDING 7 CONSISTING OF:

- FLOORING IN-KIND REPLACEMENT
- FLOORING REPLACEMENT WITH NEW MATERIAL
- NEW CASEWORK WITH NEW ACCESSIBLE SINKS
- NEW LIGHTING
- NEW INTERIOR PAINTING
- REPLACEMENT OF GLUE-UP TILES WITH NEW ACOUSTICAL CEILING PANELS
- REPLACEMENT OF TACKABLE BOARDS
- REPLACEMENT OF ALL EXTERIOR DOORS WITH NEW FRP DOORS
- NEW ROLLER SHADE AT WINDOWS
- HARDWARE REPLACEMENT AT ALL EXTERIOR DOORS
- WINDOWS AND CLERESTORY REPLACEMENT WITH NEW
- REPLACEMENT IN-KIND OF HVAC EQUIPMENT
- ADDITION OF KINDERGARTEN BATHROOMS
- ADDITION OF COOLING TO THE MP BUILDING 7
- RECONFIGURATION OF ADMINISTRATION OFFICES (BLDG 5)
- RECONFIGURATION OF CLASSROOM BUILDING 2

ACCESSIBILITY UPGRADES

- ACCESSIBILITY UPGRADES AT PATH OF TRAVEL
- REPLACEMENT OF (E) DF FOR (N) HI-LOW ACCESSIBLE DF

APPLICABLE CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023
ALL PARTS OF THE TITLE 24 CODE SHOWN BELOW HAVE AN EFFECTIVE DATE OF **JANUARY 1, 2023** EXCEPT:
- CALIFORNIA ADMINISTRATIVE CODE - EFFECTIVE **MARCH 5, 2022**

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

CALIFORNIA BUILDING CODE (CBC) - CCR, TITLE 24, PART 2
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)

CALIFORNIA ELECTRICAL CODE (CEC) - CCR, TITLE 24, PART 3
(2021 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)

CALIFORNIA MECHANICAL CODE (CMC) - CCR, TITLE 24, PART 4
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS

CALIFORNIA PLUMBING CODE (CPC) - CCR, TITLE 24, PART 5
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)

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

CALIFORNIA FIRE CODE (CFC) - CCR, TITLE 24, PART 9
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)

CALIFORNIA EXISTING BUILDING CODE (CEBC) - CCR, TITLE 24, PART 10

CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN) - CCR, TITLE 24, PART 11

CALIFORNIA REFERENCED STANDARDS CODE - CCR, TITLE 24, PART 12
(PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS)

ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS *PER 2022 CBC PART 2 CH 35) - CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION*

PARTIAL LIST OF APPLICABLE STANDARDS AS OF JANUARY 1, 2023*

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

NFPA 10-21 - STANDARD FOR PORTABLE FIRE EXTINGUISHERS

NFPA 12-15 - STANDARD ON CARBON DIOXIDE EXTINGUISHING SYSTEMS

NFPA 12A-18 - STANDARD ON HALON 1301 FIRE EXTINGUISHING SYSTEMS

NFPA 13-22 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED)

NFPA 14-19 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

NFPA 17-21 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS

NFPA 17A-21 - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS

NFPA 20-19 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

NFPA 24-19 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED)

NFPA 72-22 - NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)

NFPA 80-19 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES

ICC 300-17 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS

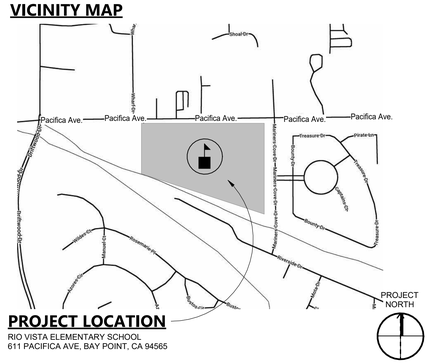
UL 300-2005(R2010) - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT

UL 464-03 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES

UL 521-99 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

UL 1971-2002(R2010) - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED

VICINITY MAP


Pacifica Ave.
Pacifica Ave.
Pacifica Ave.
Pacifica Ave.
Pacifica Ave.
Treasure Dr.
Private Lane
Bayside Dr.
Bayside Dr.
Bayside Dr.

SHEET INDEX INCREMENT 01

SHEET #	SHEET NAME
1. OVERALL GENERAL INFORMATION	
1G-001	TITLE SHEET
1G-002	CALGREEN CODE COMPLIANCE
1G-101	FIRE AUTHORITY SITE PLAN
1G-201	BLDG 1&2 - EXIT ANALYSIS
1G-202	BLDG 5&7 - EXIT ANALYSIS
1G-900	ACCESSIBILITY CLEARANCES
GENERAL SHEETS TOTAL: 6	
2. CIVIL ENGINEERING	
1-C1.1	DEMOLITION PLAN
1-C2.1	GRADING & DRAINAGE PLAN
1-C3.1	NOTES, LEGENDS & DETAILS
1-C3.2	DETAILS
CIVIL SHEETS TOTAL: 4	
3. ARCHITECTURAL DRAWINGS	
1A-021	BLDG 1&2 - DEMO FLOOR PLAN
1A-022	BLDG 5&7 - DEMO FLOOR PLAN
1A-023	BLDG 1&2 - DEMO REFLECTED CEILING PLAN
1A-024	BLDG 5&7 - DEMO REFLECTED CEILING PLAN
1A-031	BLDG 1&2 - DEMO EXTERIOR ELEVATIONS
1A-032	BLDG 5&7 - DEMO EXTERIOR ELEVATIONS
1A-102	ENLARGED SITE PLAN, DEMOLITION & FENCING ELEVATIONS
1A-111	SITE DETAILS
1A-201	BLDG 1&2 - FLOOR PLAN
1A-202	BLDG 5&7 - FLOOR PLAN
1A-205	BLDG 1&2 - ROOF PLAN
1A-206	BLDG 5&7 - ROOF PLAN
1A-211	BLDG 1&2 - REFLECTED CEILING PLAN
1A-212	BLDG 5&7 - REFLECTED CEILING PLAN
1A-251	BLDG 1&2 - FINISH & SIGNAGE PLAN
1A-252	BLDG 5&7 - FINISH & SIGNAGE PLAN
1A-301	BLDG 1&2 - EXTERIOR ELEVATIONS
1A-302	BLDG 5&7 - EXTERIOR ELEVATIONS
1A-401	BUILDING SECTIONS
1A-405	BLDG 2,5&7 - WALL SECTIONS
1A-501	RESTROOM PLAN ENLARGEMENTS
1A-502	RESTROOM PLAN ENLARGEMENTS
1A-601	BLDG 2 - INTERIOR ELEVATIONS
1A-602	BLDG 2 - INTERIOR ELEVATIONS
1A-603	BLDG 2 - INTERIOR ELEVATIONS
1A-604	BLDG 5 - INTERIOR ELEVATIONS
1A-605	BLDG 5 - INTERIOR ELEVATIONS
1A-606	BLDG 5 - INTERIOR ELEVATIONS
1A-607	BLDG 7 - INTERIOR ELEVATIONS
1A-608	BLDG 7 - INTERIOR ELEVATIONS
1A-609	CASEWORK ELEVATIONS
1A-701	EXTERIOR DETAILS
1A-702	EXTERIOR DETAILS
1A-801	DOOR SCHEDULE
1A-811	WINDOW SCHEDULE
1A-821	DOOR AND WINDOW DETAILS
1A-911	WALL TYPES & DETAILS
1A-921	INTERIOR DETAILS
1A-922	INTERIOR DETAILS
1A-924	CEILING DETAILS
1A-925	SIGNAGE DETAILS
1A-931	CASEWORK DETAILS
ARCHITECTURAL SHEETS TOTAL: 43	
4. STRUCTURAL ENGINEERING	
1S-801	FRAMING DETAILS
1S-100	GENERAL NOTES
1S-201	BUILDING 1&2 – FOUNDATION PLANS
1S-202	BUILDING 5&7 – FOUNDATION PLANS
1S-203	BUILDING 1 & 2 – ROOF FRAMING PLANS
1S-204	BUILDING 5 & 7 – FRAMING PLANS
1S-501	TYPICAL CONCRETE DETAILS
1S-502	CONCRETE DETAILS
1S-800	NAILING SCHEDULE
1S-802	FRAMING DETAILS

SHEET #	SHEET NAME
STRUCTURAL SHEETS TOTAL: 10	
5. MECHANICAL & PLUMBING ENGINEERING	
1MP-001	LEGENDS & NOTES - MECHANICAL & PLUMBING
1MP-002	SCHEDULES - MECHANICAL
1MP-003	SCHEDULES & SCHEMATICS MECH. & PLUMBING
1MP-004	SCHEMATICS & MECHANICAL
1MP-201	BLDG 1 MPR - DEMO & NEW FLOOR PLANS
1MP-202	BLDG 2 - DEMO & NEW FLOOR PLANS
1MP-203	BLDG 5 DEMO & NEW FLOOR PLANS
1MP-204	BLDGS 7 DEMO & NEW FLOOR PLANS
1MP-301	BLDG 1 & 5 - DEMO & NEW ROOF PLANS
1MP-302	BLDG 2 - DEMO & NEW ROOF PLANS
1MP-303	BLDG 7 - DEMO & NEW ROOF PLANS
1MP-401	BLDG 2 - DEMO & NEW RESTROOM PLANS
1MP-402	BLDGS 5 ADMIN - DEMO & NEW RESTROOM PLANS
1MP-501	CONTROLS - MECHANICAL
1MP-601	DETAILS - MECHANICAL & PLUMBING
1MP-602	DETAILS - MECHANICAL & PLUMBING
1MP-603	DETAILS - MECHANICAL & PLUMBING
1MP-801	T24 - MECHANICAL
1MP-802	T24 - MECHANICAL
MECHANICAL SHEETS TOTAL: 19	
6. ELECTRICAL ENGINEERING	
1E000	GENERAL INFORMATION
1E001	GENERAL INFORMATION
1E002	SCHEDULES
1E003	SCHEDULES
1E004	SCHEDULES
1E100	SITE PLAN
1E201	LIGHTING PLANS
1E202	LIGHTING PLANS
1E203	LIGHTING PLANS
1E204	LIGHTING PLANS
1E300	POWER & SIGNAL PLANS
1E301	POWER & SIGNAL PLANS
1E302	POWER & SIGNAL PLANS
1E303	POWER & SIGNAL PLANS
1E304	POWER & SIGNAL PLANS
1E305	POWER & SIGNAL PLANS
1E401	DETAILS
1E402	DETAILS
1E403	DETAILS
1E501	TITLE 24
1E502	TITLE 24
1E503	TITLE 24
1E504	TITLE 24
ELECTRICAL SHEETS TOTAL: 23	
7. FIRE ALARM	
1F000	GENERAL INFORMATION
1F001	SCHEDULES
1F002	SCHEDULES
1F100	SITE PLAN
1F200	FIRE ALARM PLANS
1F201	FIRE ALARM PLANS
1F202	FIRE ALARM PLANS
1F203	FIRE ALARM PLANS
1F204	FIRE ALARM PLANS
1F205	FIRE ALARM PLANS
1F301	DIAGRAMS
1F302	DIAGRAMS
1F401	DETAILS
FIRE ALARM SHEETS TOTAL: 13	
8. TECHNOLOGY ENGINEERING	
1T-000	TECHNOLOGY INFRASTRUCTURE COVER SHEET
1T-010	TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO
1T-020	TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO
1T-021	TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO
1T-100	TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW
1T-200	TECHNOLOGY INFRASTRUCTURE FLOOR PLAN NEW
1T-201	TECHNOLOGY INFRASTRUCTURE FLOOR PLAN NEW
1T-300	TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW
1T-301	TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW
1T-700	TECHNOLOGY INFRASTRUCTURE SINGLE LINES
1T-701	TECHNOLOGY INFRASTRUCTURE SINGLE LINES
1T-800	TECHNOLOGY INFRASTRUCTURE DETAILS
1T-801	TECHNOLOGY INFRASTRUCTURE DETAILS
1T-802	TECHNOLOGY INFRASTRUCTURE DETAILS
1T-803	TECHNOLOGY INFRASTRUCTURE DETAILS
TECHNOLOGY SHEETS TOTAL: 15	
OVERALL SHEET TOTAL: 133	

SHEET INDEX INCREMENT 02 - THIS SUBMITTAL

SHEET #	SHEET NAME
1. OVERALL GENERAL INFORMATION	
2G-001	**TITLE SHEET**
2G-002	**SHEET INDEX & OVERALL SITE PLAN**
2G-003	**CALGREEN CODE COMPLIANCE**
2G-101	**CODE SITE PLAN**
2G-201	**BLDG 3 & 4 - EXIT ANALYSIS**
2G-202	**BLDG 6, 8 & 9 - EXIT ANALYSIS**
2G-203	**BLDG 10, 11 & 12 - EXIT ANALYSIS**
2G-900	**ACCESSIBILITY CLEARANCES**
GENERAL SHEETS TOTAL: 8	
2. CIVIL ENGINEERING (*)	
2-C0.1	**NOTES, LEGEND & INDEX**
2C-1.1	**DEMOLITION PLAN**
2C-2.1	**GRADING AND DRAINAGE PLAN**
2C-3.1	**UNDERGROUND UTILITIES PLAN**
2C-4.1	**NOTES, LEGENDS & DETAILS**
2C-4.2	**DETAILS**
2C-4.3	**UNDERGROUND DETAILS**
2C-5.1	**HORIZONTAL CONTROL PLAN**
2C-6.1	**EROSION CONTROL PLAN**
CIVIL SHEETS TOTAL: 9	
3. LANDSCAPE (*)	
L1.1	**IRRIGATION PLAN**
L2.1	**PLANTING PLAN**
L3.1	**IRRIGATION DETAILS**
L3.2	**IRRIGATION AND PLANTING DETAILS**
LANDSCAPE SHEETS TOTAL: 4	
4. ARCHITECTURAL DRAWINGS	
2A-021	**BLDG 3 & 4- DEMOLITION PLAN**
2A-022	**BLDG 6, 8 & 9 - DEMOLITION PLAN**
2A-023	**BLDG 10, 11 & 12- DEMOLITION PLAN**
2A-025	**BLDG 3 & 4- DEMOLITION REFLECTED CEILING PLAN**
2A-026	**BLDG 6, 8 & 9- DEMOLITION REFLECTED CEILING PLAN**
2A-031	**BLDG 3 & 4 - DEMOLITION EXTERIOR ELEVATIONS**
2A-032	**BLDG 6 & 8 - DEMOLITION EXTERIOR ELEVATIONS**
2A-033	**BLDG 9, 10, 11 & 12 - DEMOLITION EXTERIOR ELEVATIONS**
2A-102	**ENLARGED SITE PLAN**
2A-103	**FENCE & STAIR PLANS**
2A-111	**SITE DETAILS**
2A-112	**SITE DETAILS**
2A-201	**BLDG 3 & 4 - FLOOR PLAN**
2A-202	**BLDG 6, 8 & 9 - FLOOR PLAN**
2A-203	**BLDG 10, 11 & 12 - FLOOR & ROOF PLANS**
2A-211	**BLDG 3 & 4 - REFLECTED CEILING PLAN**
2A-212	**BLDG 6, 8 & 9 - REFLECTED CEILING PLAN**
2A-251	**BLDG 3 & 4 - FINISH & SIGNAGE PLAN**
2A-252	**BLDG 6, 8 & 9 - FINISH & SIGNAGE PLAN**
2A-253	**BLDG 10, 11 & 12 - FINISH & SIGNAGE PLAN**
2A-301	**BLDG 1 & 2 - EXTERIOR ELEVATIONS**
2A-302	**BLDG 3 & 4 - EXTERIOR ELEVATIONS**
2A-303	**BLDG 5 & 6 - EXTERIOR ELEVATIONS**
2A-304	**BLDG 7 & 8 - EXTERIOR ELEVATIONS**
2A-305	**BLDG 9 & 10 - EXTERIOR ELEVATIONS**
2A-306	**BLDG 11 & 12 - EXTERIOR ELEVATIONS**
2A-401	**BLDG 3, 4, 6 & 8 - BUILDING SECTIONS**
2A-402	**BLDG 9, 10 - BUILDING SECTIONS**
2A-403	**BLDG 3, 4, 6, 8 & 9 - WALL SECTIONS**
2A-501	**RESTROOM PLAN ENLARGEMENTS**
2A-502	**RESTROOM PLAN ENLARGEMENTS**
2A-503	**RESTROOM PLAN ENLARGEMENTS**
2A-601	**BLDG 3 - INTERIOR ELEVATIONS**
2A-602	**BLDG 4 - INTERIOR ELEVATIONS**
2A-603	**BLDG 4 & 6 - INTERIOR ELEVATIONS**
2A-604	**BLDG 8 & 9 - INTERIOR ELEVATIONS**
2A-701	**EXTERIOR DETAILS**
2A-801	**DOOR SCHEDULE**
2A-811	**WINDOW SCHEDULE**
2A-821	**DOOR AND WINDOW DETAILS**
2A-911	**WALL TYPES & DETAILS**
2A-921	**INTERIOR DETAILS**
2A-922	**INTERIOR DETAILS**
2A-924	**CEILING DETAILS**
2A-925	**SIGNAGE DETAILS**
2A-926	**CASEWORK DETAILS**
ARCHITECTURAL SHEETS TOTAL: 46	

SHEET #	SHEET NAME
5. STRUCTURAL ENGINEERING (*)	
2S-100	**GENERAL NOTES**
2S-201	**BUILDING 3 FOUNDATION PLAN**
2S-202	**BUILDING 8 & 9 - FOUNDATION PLANS**
2S-203	**BUILDINGS 11 & 12 ROOF FRAMING PLANS**
2S-501	**TYPICAL CONCRETE DETAILS**
2S-800	**NAILING SCHEDULE**
2S-801	**FRAMING DETAILS**
STRUCTURAL SHEETS TOTAL: 7	
6. MECHANICAL & PLUMBING ENGINEERING (*)	
2MP-001	**LEGENDS & NOTES - MECHANICAL & PLUMBING**
2MP-002	**SCHEDULES - MECHANICAL& PLUMBING**
2MP-201	**BLDGS 3&4 - DEMO & NEW FLOOR PLANS**
2MP-202	**BLDG 6, 8 & 9 - DEMO & NEW FLOOR PLANS**
2MP-203	**BLDG 10, 11 & 12 - DEMO & NEW FLOOR PLANS**
2MP-301	**BLDGS 11 & 12 - DEMO & NEW RESTROOM PLANS**
2MP-401	**BLDG 8 & 9 - DEMO & NEW RESTROOM PLANS**
2MP-402	**BLDGS 3 - DEMO & NEW RESTROOM PLANS**
2MP-501	**CONTROLS-MECHANICAL**
2MP-601	**DETAILS - MECAHNICAL & PLUMBING**
2MP-602	**DETAILS - MECAHNICAL & PLUMBING**
2MP-801	**T24 - MECHANICAL**
MECHANICAL SHEETS TOTAL: 12	
7. ELECTRICAL ENGINEERING (*)	
2E000	**GENERAL INFORMATION**
2E001	**GENERAL INFORMATION**
2E002	**SCHEDULES**
2E003	**SCHEDULES**
2E100	**SITE PLAN**
2E201	**LIGHTING PLANS**
2E202	**LIGHTING PLANS**
2E203	**LIGHTING PLANS**
2E204	**LIGHTING PLANS**
2E301	**POWER & SIGNAL PLANS**
2E302	**POWER & SIGNAL PLANS**
2E303	**POWER & SIGNAL PLANS**
2E304	**POWER & SIGNAL PLANS**
2E305	**POWER & SIGNAL PLANS**
2E306	**POWER & SIGNAL PLANS**
2E401	**DETAILS**
2E402	**DETAILS**
2E501	**TITLE 24**
2E502	**TITLE 24**
2E503	**TITLE 24**
2E504	**TITLE 24**
2E505	**TITLE 24**
2E506	**TITLE 24**
ELECTRICAL SHEETS TOTAL: 23	
8. FIRE ALARM (*)	
2F000	**GENERAL INFORMATION**
2F001	**SCHEDULES**
2F100	**SITE PLAN**
2F111	**DEMO FIRE ALARM PLANS**
2F112	**DEMO FIRE ALARM PLANS**
2F113	**DEMO FIRE ALARM PLANS**
2F114	**DEMO FIRE ALARM PLANS**
2F115	**DEMO FIRE ALARM PLANS**
2F201	**FIRE ALARM PLANS**
2F202	**FIRE ALARM PLANS**
2F203	**FIRE ALARM PLANS**
2F204	**FIRE ALARM PLANS**
2F205	**FIRE ALARM PLANS**
2F301	**DIAGRAMS**
2F401	**DETAILS**
FIRE ALARM SHEETS TOTAL: 15	

SHEET #	SHEET NAME
9. TECHNOLOGY ENGINEERING (*)	
2T-000	**TECHNOLOGY INFRASTRUCTURE COVER SHEET**
2T-010	**TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO**
2T-020	**TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO**
2T-021	**TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO**
2T-100	**TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW**
2T-200	**TECHNOLOGY INFRASTRUCTURE FLOOR PLAN NEW**
2T-201	**TECHNOLOGY INFRASTRUCTURE FLOOR PLAN NEW**
2T-300	**TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW**
2T-301	**TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW**
2T-700	**TECHNOLOGY INFRASTRUCTURE SINGLE LINES**
2T-701	**TECHNOLOGY INFRASTRUCTURE SINGLE LINES**
2T-800	**TECHNOLOGY INFRASTRUCTURE DETAILS**
2T-801	**TECHNOLOGY INFRASTRUCTURE DETAILS**
2T-802	**TECHNOLOGY INFRASTRUCTURE DETAILS**
2T-803	**TECHNOLOGY INFRASTRUCTURE DETAILS**
TECHNOLOGY SHEETS TOTAL: 15	
OVERALL SHEET TOTAL: 139	

STATEMENT OF GENERAL CONFORMANCE

(*) THE DRAWINGS LISTED ON THE SHEET INDEX OF THIS COVER HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

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

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF EDUCATION CODE, AND SECTIONS 4-336, 4-341 AND 4-334 OF TITLE 24, PART 1 *(TITLE 24, PART 1, SECTION 4-317 (b))*.

I FIND THAT: ■ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

☐ THIS DRAWING OR PAGE

☐ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND

■ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

9/30/24

SIGNATURE DATE

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

MARIANA ALVAREZ PARGA

PRINT NAME

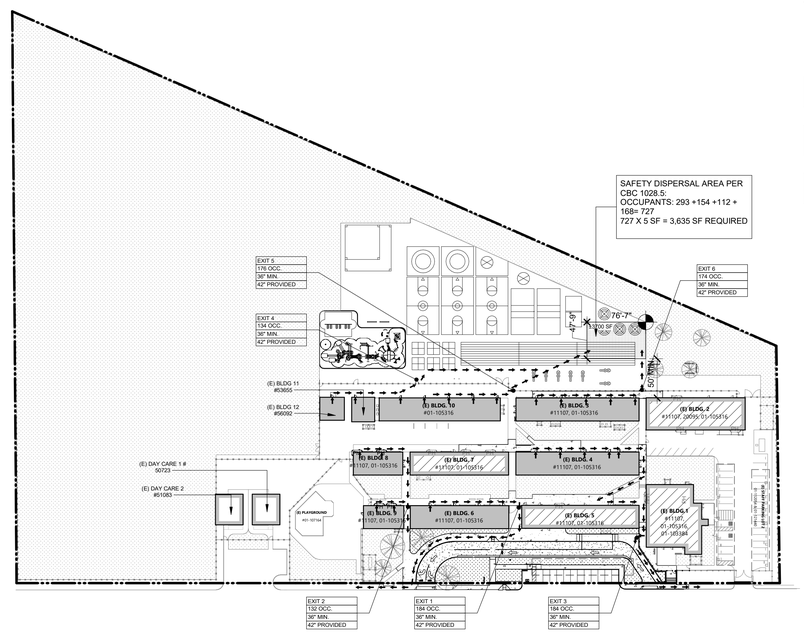
C-36107 01-31-2025

LICENSE NUMBER EXPIRATION DATE

LEGEND

- SCHOOL PROPERTY LINE.
- PATH OF EGRESS
- LIMITS OF WORK
- PROJECT BUILDING MODERNIZATION INC. 2 - THIS SET
- PROJECT BUILDING MODERNIZATION INC. 1
- (E) BUILDING N.I.C
- (E) LANDSCAPING
- (E) SOLAR PANEL
- (E) CHAINLINK FENCE
- (N) CHAINLINK FENCE
- (E) ORNAMENTAL FENCE
- (N) ORNAMENTAL FENCE

NOTE: THE PURPOSE OF THIS SITE PLAN IS TO ILLUSTRATE THE OVERALL LAYOUT, INCLUDING THE ENCLOSED PROPERTY LINES AND THE PATH OF EGRESS.



PROJECT NORTH

OVERALL EGRESS SITE PLAN | 1" = 80'-0" | 1

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARIANA ALVAREZ PARGA
C-36107
REN. 01-31-25
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

SHEET INDEX & OVERALL SITE PLAN

INC.2

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

2G-002

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/28/2024 1:27:29 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

CODE SECTION & DESCRIPTION	LOCATION IN DOCUMENTS/ COMPLIANCE
5.106 SITE DEVELOPMENT	
5.106.4 BICYCLE PARKING. *For public schools and community colleges comply with Sections 5.106.4.2.1 and 5.106.4.2.2*	N/A - NO NEW BUILDINGS
5.106.4.2.1 STUDENT BICYCLE PARKING *Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.*	N/A
5.106.4.2.2 STAFF BICYCLE PARKING *Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:* *1. Covered, lockable enclosures with permanently anchored racks for bicycles;* *2. Lockable bicycle rooms with permanently anchored racks; or* *3. Lockable, permanently anchored bicycle lockers.*	N/A
5.106.5.3 ELECTRIC VEHICLE (EV) CHARGING [N] *Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:*	N/A - NO NEW BUILDINGS
5.106.5.3.1 SINGLE CHARGING SPACE REQUIREMENTS [N] *When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:* *1. The type and location of the EVSE.* *2. A listed raceway capable of accommodating a 208/240-volt dedicated branch circuit.* *3. The raceway shall not be less than trade size 1."* *4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into a listed suitable cabinet, box, enclosure or equivalent.* *5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.*	N/A
5.106.5.3.2 MULTIPLE CHARGING SPACE REQUIREMENTS [N] *When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code Construction plans and specifications shall include, but are not limited to, the following:* *1. The type and location of the EVSE.* *2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.* *3. Plan design shall be based upon 40-ampere minimum branch circuits.* *4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.* *5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.*	N/A
5.106.5.3.3 EV CHARGING SPACE CALCULATION [N] *Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.* *Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:* *1. Where there is insufficient electrical supply.* *2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.* **TABLE 5.106.5.3.3** TOTAL NUMBER OF ACTUAL PARKING SPACES / NUMBER OF REQUIRED EV CHARGING SPACES 0-9: 0 10-25: 1 26-50: 2 51-75: 4 76-100: 5 101-150: 7 151-200: 10 201-OVER: 6% OF TOTAL **5.106.5.3.4 [N] IDENTIFICATION** *The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."*	N/A
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.*	N/A
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 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and* *2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);* *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 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.* *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 IES TM-15-11 Table A1, California Energy Code Tables 130.2-A and 130.2-B.* *3. Refer to the California Energy Code for requirements for additions and alterations.*	N/A - NO NEW BUILDINGS
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.*	SEE GRADING PLAN
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.*	N/A - NO NEW BUILDINGS
5.106.12.1 SURFACE PARKING AREAS *Shade tree plantings, minimum No. 10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.* *Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.*	N/A
5.106.12.2 LANDSCAPE AREAS *Shade tree plantings, minimum No. 10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.* *Exception: Playfields for organized sport activity are not included in the total area calculation.*	N/A
5.106.12.3 HARDSCAPE AREAS *Shade tree plantings, minimum No. 10 container size or equal shall be installed to provide shade over 20 percent 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 A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.*	N/A
5.201 ENERGY EFFECIENCY	
5.201.1 SCOPE. CALIFORNIA ENERGY CODE *For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.*	PER DSA PR 07-01: PRE-CHECK APPROVAL
5.3 WATER EFFICIENCY AND CONSERVATION	
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 Specification 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.*	SEE PLUMBING DRAWINGS
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.*	SEE PLUMBING DRAWINGS
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.*	N/A
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 Specification for Showerheads.*	N/A
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 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.* *Note: A hand-held shower shall be considered a showerhead.*	N/A

CODE SECTION & DESCRIPTION	LOCATION IN DOCUMENTS/ COMPLIANCE
5.3 WATER EFFICIENCY AND CONSERVATION (CONT.)	
5.303.3.4 FAUCETS AND FOUNTAINS **5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS** *Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.*	2MP-002, SEE PLUMBING DWGS.
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.*	N/A
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 [rim space (inches) at 60 psi].*	N/A
5.303.3.4.4 METERING FAUCETS *Metering faucets shall not deliver more than 0.20 gallons per cycle.*	N/A
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 [rim space (inches) at 60 psi]* *Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.*	N/A
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 comply with the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.*	SEE PLUMBING DWGS.
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 Efficient Landscape 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.*	PER DSA PR 15-03 SEE DSA 1-L
5.304.6.1 NEWLY CONSTRUCTED LANDSCAPES *New construction projects with an aggregate landscape area equal to or greater than 500 square feet.*	N/A
5.304.6.2 REHABILITATED LANDSCAPES *Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.*	N/A
5.4 MATERIAL CONSERVATION AND RESOURCE EFFECIENCY	
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 ordinance, whichever is more stringent.*	N/A - NO NEW BUILDINGS
5.407.2 MOISTURE CONTROL *Employ moisture control measures by the following methods.*	N/A
5.407.2.1 SPRINKLERS *Design and maintain landscape irrigation systems to prevent spray on structures.*	N/A
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:*	N/A
5.407.2.2.1 EXTERIOR DOOR PROTECTION *Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within 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.*	N/A
5.407.2.2.2 FLASHING *Install flashings integrated with a drainage plane.*	N/A
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.*	SEE SPECIFICATIONS 01 74 19
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.* *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.*	N/A
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 item do not exist.* *3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.*	N/A
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.*	N/A
5.408.1.4 DOCUMENTATION *Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 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:* *Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at https://www.dgs.ca.gov/BSC/Resources/ Page-Content/Building-Standards-CommissionResources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.* *Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).*	N/A
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 in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.*	N/A - NO NEW BUILDINGS
5.410.1.1 ADDITIONS *All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site.* *Exception: Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.*	N/A
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 web site.*	N/A - NO NEW BUILDINGS
5.5 ENVIRONMENTAL QUALITY	
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.*	SEE MECHANICAL DWGS.
5.504.4 FINISH MATERIAL POLLUTANT CONTROL *Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.*	SEE SPECIFICATIONS
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.*	SEE SPECIFICATIONS
SEE TABLE 5.504.4.1 ADHESIVE VOC LIMIT	SEE SPECIFICATIONS
SEE TABLE 5.504.4.2 SEALANT VOC LIMIT	

CODE SECTION & DESCRIPTION	LOCATION IN DOCUMENTS/ COMPLIANCE
5.5 ENVIRONMENTAL QUALITY (CONT.)	
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.*	SEE SHEET 2A-251 through 2A-253 SEE SPECIFICATIONS 09 91 00
SEE TABLE 5.504.4.3 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS	SEE SPECIFICATIONS
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.*	SEE SPECIFICATIONS
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* *2. Field verification of on-site product containers*	SEE SPECIFICATIONS
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 (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database.*	SEE SHEET 2A-251 through 2A-253 SEE SPECIFICATIONS 09 68 13
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.*	SEE SPECIFICATIONS
5.504.4.4.2 CARPET ADHESIVE *All carpet adhesive shall meet the requirements of Table 5.504.4.1.*	SEE SPECIFICATIONS
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 (17 CCR 93120 et seq.) Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.*	SEE SPECIFICATIONS
SEE TABLE 5.504.4.5 FORMALDEHYDE LIMITS	
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 (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or* *4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).*	SEE SHEET 2A-251 through 2A-253 SEE SPECIFICATIONS 09 65 00
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 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.*	SEE MECHANICAL SHEETS
5.505.1 INDOOR MOISTURE CONTROL *Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.*	SEE MECHANICAL SHEETS
5.506.1 OUTSIDE AIR DELIVERY *For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.*	SEE MECHANICAL SHEETS
5.507.4 ACOUSTICAL CONTROL *Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.* *Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.* *Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.*	N/A - NO NEW BUILDINGS
5.507.4.1 EXTERIOR NOISE TRANSMISSION, PRESCRIPTIVE METHOD *Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:* *1. Within the 65 CNEL noise contour of an airport.* *Exceptions:* *A. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.* *B. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.* *2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.*	N/A
5.507.4.1.1 NOISE EXPOSURE WHERE NOISE CONTOURS ARE NOT READILY AVAILABLE *Buildings exposed to a noise level of 65 dB Leq-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).*	N/A
5.507.4.2 PERFORMANCE METHOD *For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1HR) of 50 dBA in occupied areas during any hour of operation.*	N/A
5.507.4.2.1 SITE FEATURES *Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.*	N/A
5.507.4.2.2 DOCUMENTATION OF COMPLIANCE *An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.*	N/A
5.507.4.3 INTERIOR SOUND TRANSMISSION *Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.* *Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: http://www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.*	N/A
5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS *Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.*	SEE MECHANICAL SHEETS
5.508.1.1 CHLOROFLUOROCARBONS (CFCS) *Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.*	SEE MECHANICAL SHEETS
5.508.1.2 HALONS *Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.*	SEE MECHANICAL SHEETS

CALGREEN CODE COMPLIANCE

THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE 2022 CALGREEN CODE (TITLE 24CCR, PART II) AS ADOPTED BY DSA FOR APPLICATION TO PUBLIC SCHOOLS [DSA-SS]. MANDATORY MEASURES ARE LOCATED AT DRAWING SHEET 1G-002.

SIGNATURE OF THE ARCHITECT/ENGINEER | 9/30/24 DATE | C-36107 LICENSE NUMBER | 01-31-25 EXPIRATION DATE

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT · MARISSA ALVAREZ-ARCA · C-36107 · REN. 01-31-25 · STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

CALGREEN CODE COMPLIANCE

INC.2

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

2G-003

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:43:05 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

LEGEND - SITE PLAN

- SCHOOL PROPERTY LINE. SEE 1/2G-002 FOR ENTIRE SCHOOL CAMPUS PROPERTY LINE.
- LIMITS OF WORK
- PROJECT BUILDING MODERNIZATION INC. 2 - THIS SET
- PROJECT BUILDING MODERNIZATION INC. 1
- (E) BUILDING N.I.C
- (E) LANDSCAPING
- (E) SOLAR PANEL
- (E) STAF RESTROOMS
- (E) STUDENT RESTROOMS
- (N) STUDENT RESTROOMS
- (N) SEAL COATING AND PLAY LINES STRIPING
- (N) RUBBERIZED SURFACE
- (N) CONCRETE PAVING
  - EXPANSION JOINT
  - CONTROL JOINT
- (N) ASPHALT CONCRETE PAVING
- (E) CHAINLINK FENCE
- (N) CHAINLINK FENCE
- (E) ORNAMENTAL FENCE
- (N) ORNAMENTAL FENCE
- (E) EXTERIOR LIGHTING ALONG P.O.T.
- FH — (E) FIRE HYDRANT
- FDC — (E) FIRE DEPARTMENT CONNECTION
- (E) FIRE ENGINE ACCESS. DSA #01-107164, 01-105316
- ASSUMED PROPERTY LINE
- **PATH OF TRAVEL (P.O.T.) INC. 2**
- **PATH OF TRAVEL (P.O.T.) INC. 1**

- AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE
- IS AT LEAST 48" WIDE.
- NO ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL.
- THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH.
- PASSING SPACES (11B-403.2) AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART.
- PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART.
- THE 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).
- ARCHITECT SHALL VERIFY PATH OF TRAVEL CONFORMS WITH THE ABOVE.

LEGEND - SITE PLAN GENERAL NOTES

1. ALL NEW CONCRETE AND AC PAVING IN P.O.T. SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS U.N.O. AND SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT NEW AND EXISTING WALK SURFACES IN P.O.T .
2. ALL LANDSCAPE EDGES ALONG ALL NEW OR EXISTING WALK SURFACES IN P.O.T. SHALL BE PER CIVIL DRAWINGS.
3. FOR GRATINGS OR STRAINERS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY OR IN P.O.T., THE MAXIMUM GRATE OR STRAINER OPENINGS SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
4. SAFETY DISPERSAL AREA PER CBC 1028.5:OCCUPANTS: 293+154+112+168=727. 727 X 5 SF = 3,635 SF REQUIRED
5. THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR THE PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

KEYNOTES

01.32.A	(E) GATE W/ 20'-0" CLEAR OPENING WITH KNOX BOX
01.32.B	(E) FIRE HYDRANT
01.32.C	(E) BOLLARDS
01.32.G	(E) GATE W/ 20'-0" CLEAR OPENING - WITH (E) KNOX BOX
01.41.D	(E) ACCESSIBLE RAMP. DSA #01-105316
01.41.F	(E) VAN ACCESSIBLE PARKING STALL & SIGNAGE PART OF THIS APPLICATION INC 1
01.41.G	(E) ACCESSIBLE PARKING STALL AND SIGNAGE PART OF THIS APPLICATION INC 1
01.41.J	(E) ACCESSIBLE BOYS RESTROOM. DSA #01-114761
01.41.K	(E) ACCESSIBLE GIRLS RESTROOM. DSA #01-114761
01.41.L	(E) ACCESSIBLE ORNAMENTAL GATE W/ PANIC HARDWARE. SEE 20/2A-112 FOR REFERENCE ONLY
01.41.M	(E) ACCESSIBLE STUDENT RESTROOM. PART OF INCREMENT 1 IN THIS APPLICATION.
01.41.N	(E) ACCESSIBLE STAFF RESTROOM. PART OF INCREMENT 1 IN THIS APPLICATION
01.41.O	(E) SERVICE GATE
01.41.P	(E) SOLAR PANEL. DSA #01-112054
01.41.Q	(E) PG&E SERVICE ENCLOSURE
01.41.S	(E) HI-LOW ACCESSIBLE DRINKING FOUNTAIN. PART OF INCREMENT 1 IN THIS APPLICATION
01.41.U	(E) ACCESSIBLE ORNAMENTAL GATE INCLUDED IN INC. 1 SCOPE OF WORK. REFER TO DETAIL 25/2A-111 FOR REFERENCE ONLY
03.40.A	CONCRETE PAVING PER CIVIL DRAWINGS
05.52.B	(N) STAIR HANDRAIL. REFER TO DETAIL 8/2A-111
05.52.D	(N) HANDRAIL AT ACCESSIBLE RAMP. REFER TO DETAIL 5/2A-112
10.14.C	(N) MARQUEE SIGN. REFER TO DETAIL 10/2A-111. SEE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR THE ENTIRE SCOPE OF WORK.
12.67.A	SALVAGED METAL BENCH. FRAME AND SEAT TO BE PAINTED WHITE
22.47.A	(N) HI-LOW ACCESSIBLE DRINKING FOUNTAIN. REFER TO DETAIL 12/2A-111
32.00.A	(E) TREE. PROTECT DURING CONSTRUCTION
32.00.B	(E) LIGHT POLE. PROTECT DURING CONSTRUCTION.
32.00.C	(E) SOLAR SHADE STRUCTURE DSA APP# 01-112054. PROTECT DURING CONSTRUCTION
32.00.H	(E) COVERED BUS STOP
32.12.A	(N) ASPHALT CONCRETE PAVING S.C.D.
32.13.A	(N) CURB RAMP S.C.D.
32.13.B	(N) CONCRETE FLATWORK. S.C.D.
32.13.D	(N) EXTERIOR CONCRETE STAIR. S.C.D. AND 18/2A-111
32.13.F	(N) LOADING ZONE. S.C.D.
32.14.A	(N) PLAY EQUIPMENT. REFER TO 4/2A-112
32.17.B	(N) TRUNCATED DOMES BAND. S.C.D.
32.17.D	(N) PARKING STALLS STRIPING. TYP
32.17.E	(N) VAN ACCESSIBLE PARKING STALL AND SIGNAGE. REFER TO DETAIL 2/2A-111
32.32.A	(N) 6'-0" TALL ORNAMENTAL FENCE
32.32.B	(E) SALVAGED ACCESSIBLE ORNAMENTAL GATE WITH PANIC HARDWARE. REFER TO DETAIL 17/2A-112
32.32.D	(N) ACCESSIBLE CHAIN LINK GATE. REFER TO DETAIL 23/2A-111
32.32.F	(N) ACCESSIBLE ORNAMENTAL GATE. REFER TO DETAIL 19/2A-112
32.32.H	(N) ORNAMENTAL SERVICE GATE. REFER TO DETAIL 19/2A-112
32.41.A	(E) 7' HIGH CHAINLINK FENCE
32.92.D	(N) LANDSCAPING AREA. S.L.D.

PROJECT BUILDING INFORMATION

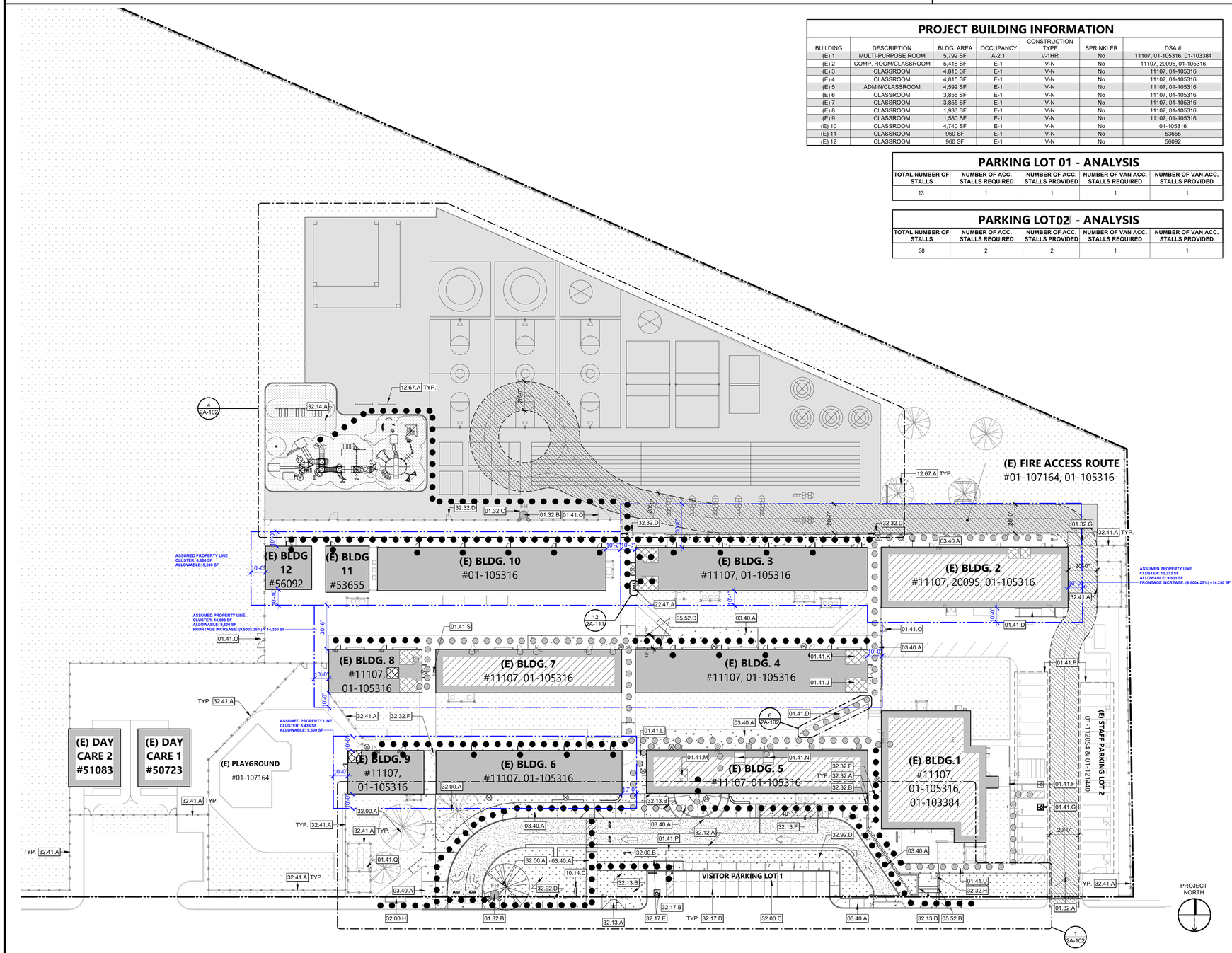
BUILDING	DESCRIPTION	BLDG. AREA	OCCUPANCY	CONSTRUCTION TYPE	SPRINKLER	DSA #
(E) 1	MULTI-PURPOSE ROOM	5,792 SF	A-2.1	V-1HR	No	11107, 01-105316, 01-103384
(E) 2	COMP. ROOM/CLASSROOM	5,418 SF	E-1	V-N	No	11107, 20095, 01-105316
(E) 3	CLASSROOM	4,815 SF	E-1	V-N	No	11107, 01-105316
(E) 4	CLASSROOM	4,815 SF	E-1	V-N	No	11107, 01-105316
(E) 5	ADMIN/CLASSROOM	4,592 SF	E-1	V-N	No	11107, 01-105316
(E) 6	CLASSROOM	3,855 SF	E-1	V-N	No	11107, 01-105316
(E) 7	CLASSROOM	3,855 SF	E-1	V-N	No	11107, 01-105316
(E) 8	CLASSROOM	1,933 SF	E-1	V-N	No	11107, 01-105316
(E) 9	CLASSROOM	1,580 SF	E-1	V-N	No	11107, 01-105316
(E) 10	CLASSROOM	4,740 SF	E-1	V-N	No	01-105316
(E) 11	CLASSROOM	960 SF	E-1	V-N	No	53655
(E) 12	CLASSROOM	960 SF	E-1	V-N	No	56092

PARKING LOT 01 - ANALYSIS

TOTAL NUMBER OF STALLS	NUMBER OF ACC. STALLS REQUIRED	NUMBER OF ACC. STALLS PROVIDED	NUMBER OF VAN ACC. STALLS REQUIRED	NUMBER OF VAN ACC. STALLS PROVIDED
13	1	1	1	1

PARKING LOT02 - ANALYSIS

TOTAL NUMBER OF STALLS	NUMBER OF ACC. STALLS REQUIRED	NUMBER OF ACC. STALLS PROVIDED	NUMBER OF VAN ACC. STALLS REQUIRED	NUMBER OF VAN ACC. STALLS PROVIDED
38	2	2	1	1



SITE PLAN | 1" = 30'-0" | 1

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
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TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ VEGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

CODE SITE PLAN

INC 2

DRAWN BY: DV JOB NUMBER: 23118.01

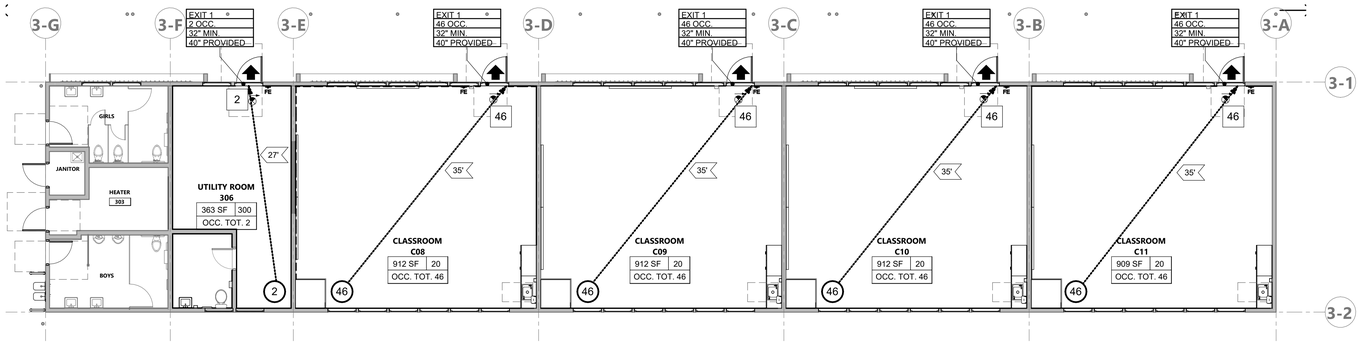
SHEET NO.

2G-101

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:43:15 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDIUSD_RIO VISTA ES MOD_INC02_A22.rvt

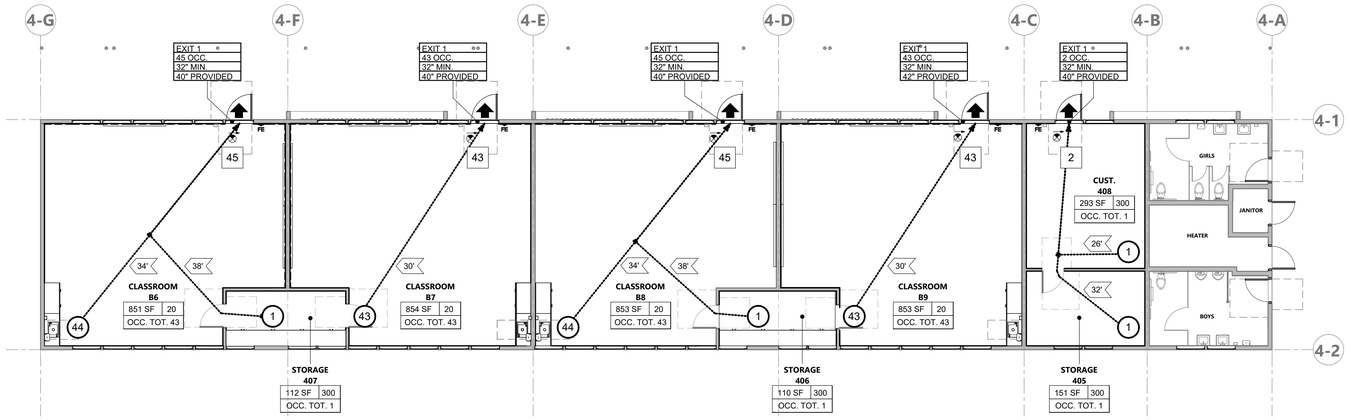


OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 3 (NO ADDED SF OR CHANGE IN USE)

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
C8	CLASSROOM	EDUCATIONAL CLASSROOM AREA	912 SF	20 SF	46	E	49	2'-8"	1	1
C9	CLASSROOM	EDUCATIONAL CLASSROOM AREA	912 SF	20 SF	46	E	49	2'-8"	1	1
C10	CLASSROOM	EDUCATIONAL CLASSROOM AREA	912 SF	20 SF	46	E	49	2'-8"	1	1
C11	CLASSROOM	EDUCATIONAL CLASSROOM AREA	912 SF	20 SF	46	E	49	2'-8"	1	1
OCCUPANT TOTAL:					184					

PROJECT NORTH

BLDG. 3 FLOOR PLAN | 1/8" = 1'-0" | 1



OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 4 (NO ADDED SF OR CHANGE IN USE)

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
405	STORAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	151 SF	300 SF	1	E	49	2'-8"	1	1
406	STORAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	110 SF	300 SF	1	E	49	2'-8"	1	1
407	STORAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	112 SF	300 SF	1	E	49	2'-8"	1	1
B6	CLASSROOM	EDUCATIONAL CLASSROOM AREA	851 SF	20 SF	43	E	49	2'-8"	1	1
B7	CLASSROOM	EDUCATIONAL CLASSROOM AREA	854 SF	20 SF	43	E	49	2'-8"	1	1
B8	CLASSROOM	EDUCATIONAL CLASSROOM AREA	853 SF	20 SF	43	E	49	2'-8"	1	1
B9	CLASSROOM	EDUCATIONAL CLASSROOM AREA	855 SF	20 SF	43	E	49	2'-8"	1	1
B10	CUST.	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	293 SF	300 SF	1	E	49	2'-8"	1	1
OCCUPANT TOTAL:					176					

PROJECT NORTH

BLDG. 4 FLOOR PLAN | 1/8" = 1'-0" | 2

LEGEND - CODE ANALYSIS

1 HR RATED SEPERATION
2 HR RATED SEPERATION
3 HR RATED SEPERATION

OCCUPANCY TAG

ROOM NAME
101
150 SF | 15
OCC. TOT. 25

- ROOM NUMBER
- OCCUPANT LOAD FACTOR
- TOTAL OCCUPANCY CALCULATED
- ROOM AREA

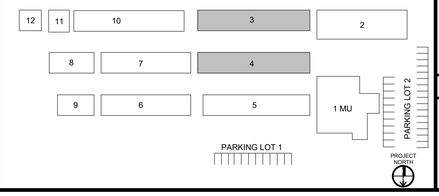
EGRESS WIDTH TAG

EXIT 01
123 OCC.
36" MIN.
36" PROVIDED

- EXIT LOCATION
- TOTAL OCCUPANTS CALCULATED
- MINIMUM EXIT WIDTH CALCULATED
- EXIT WIDTH PROVIDED

- BUILDING EXIT
- FE — FIRE EXTINGUISHER (FE)
- 0' — EGRESS DISTANCE
- ### — OCCUPANTS EXITING, OR TOTAL OCCUPANTS THIS ROOM
- INTERIOR WORK NOT IN SCOPE
- (###) — OCCUPANTS ALONG PATH, OR BLEACHER SEATING OCCUPANT COUNT
- PH — PANIC HARDWARE
- EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS

KEY PLAN



AGENCY APPROVAL DSA# 01-121440

196

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

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YAMASAKI LANDSCAPE ARCHITECTURE
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(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARIANA ALVAREZ ARCA
C-36107
REN. 01-31-25
STATE OF CALIFORNIA

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Bay Point, CA 94565

SHEET TITLE
BLDG 3 & 4 - EXIT ANALYSIS

ING.2

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.
2G-201

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

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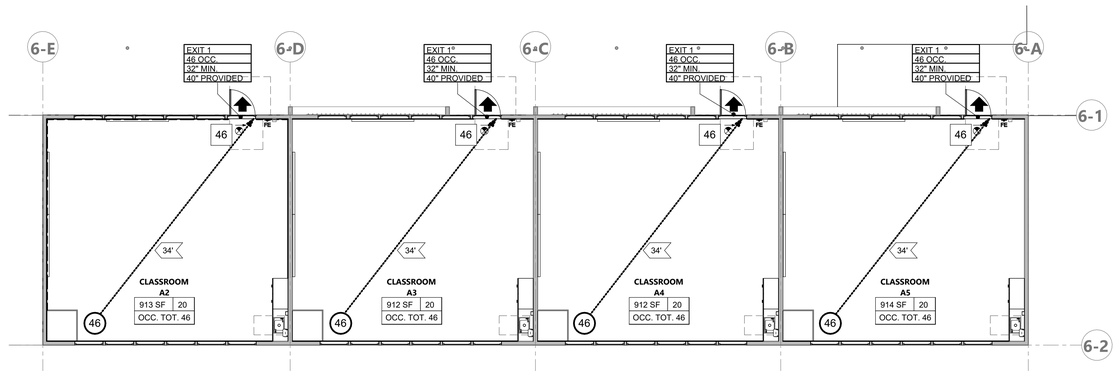
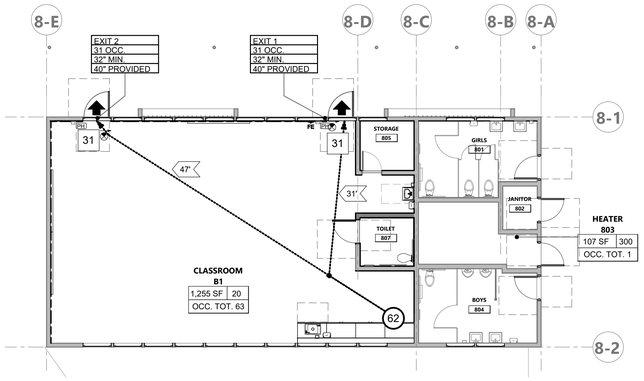


OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 6 (NO ADDED SF OR CHANGE IN USE)

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
A2	CLASSROOM	EDUCATIONAL CLASSROOM AREA	913 SF	20 SF	46	E	49	2'-8"	1	1
A3	CLASSROOM	EDUCATIONAL CLASSROOM AREA	912 SF	20 SF	46	E	49	2'-8"	1	1
A4	CLASSROOM	EDUCATIONAL CLASSROOM AREA	912 SF	20 SF	46	E	49	2'-8"	1	1
A5	CLASSROOM	EDUCATIONAL CLASSROOM AREA	914 SF	20 SF	46	E	49	2'-8"	1	1
OCCUPANT TOTAL:					184					

PROJECT NORTH

BLDG. 6 FLOOR PLAN | 1/8" = 1'-0" | **1**

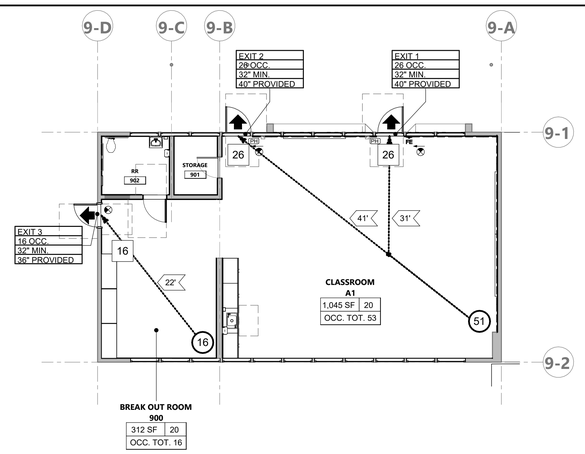


OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 8 (NO ADDED SF OR CHANGE IN USE)

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
121	HEATER	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	107 SF	300 SF	1	E	49	2'-8"	1	1
805	STORAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	46 SF	300 SF	1	E	49	2'-8"	1	1
B1	CLASSROOM	EDUCATIONAL CLASSROOM AREA	1,220 SF	20 SF	61	E	49	2'-8"	2	2
OCCUPANT TOTAL:					63					

PROJECT NORTH

BLDG. 8 FLOOR PLAN | 1/8" = 1'-0" | **2**



OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 9 (NO ADDED SF OR CHANGE IN USE)

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
A1	CLASSROOM	EDUCATIONAL CLASSROOM AREA	1,329 SF	20 SF	67	E	49	2'-8"	2	3
C12	STORAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	44 SF	300 SF	1	E	49	2'-8"	1	1
OCCUPANT TOTAL:					68					

PROJECT NORTH

BLDG. 9 FLOOR PLAN | 1/8" = 1'-0" | **3**

LEGEND - CODE ANALYSIS

- 1 HR RATED SEPERATION
- 2 HR RATED SEPERATION
- 3 HR RATED SEPERATION

OCCUPANCY TAG

ROOM NAME
101
150 SF | 15
OCC. TOT. 25

- ROOM NUMBER
- OCCUPANT LOAD FACTOR
- TOTAL OCCUPANCY CALCULATED
- ROOM AREA

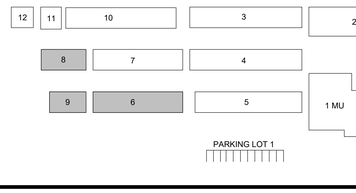
EGRESS WIDTH TAG

EXIT 01
123 OCC.
36" MIN.
36" PROVIDED

- EXIT LOCATION
- TOTAL OCCUPANTS CALCULATED
- MINIMUM EXIT WIDTH CALCULATED
- EXIT WIDTH PROVIDED

- BUILDING EXIT
- FE — FIRE EXTINGUISHER (FE)
- 0' — EGRESS DISTANCE
- ### — OCCUPANTS EXITING, OR TOTAL OCCUPANTS THIS ROOM
- INTERIOR WORK NOT IN SCOPE
- (###) — OCCUPANTS ALONG PATH, OR BLEACHER SEATING OCCUPANT COUNT
- PH — PANIC HARDWARE
- EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS

KEY PLAN



AGENCY APPROVAL DSA#

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

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Monterey, CA 93940
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Bay Point, CA 94565

SHEET TITLE

BLDG 6, 8 & 9 - EXIT ANALYSIS

INC 2

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

2G-202

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

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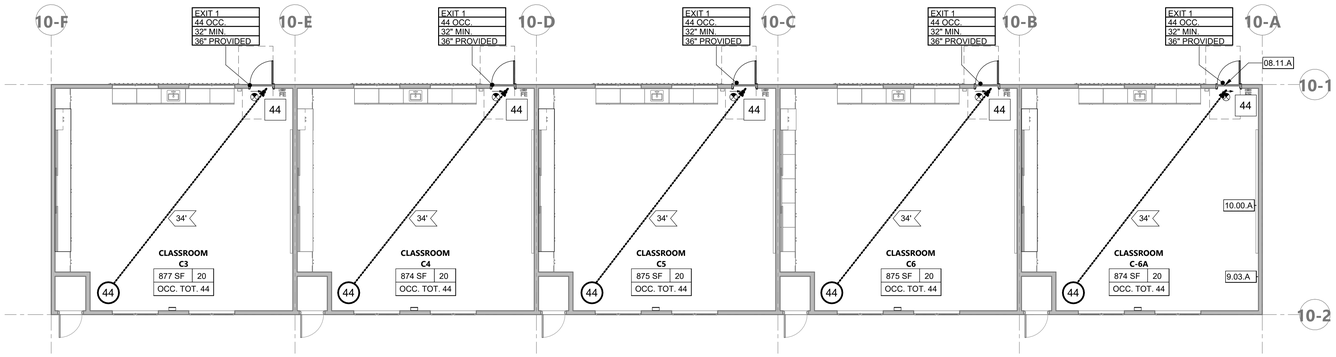
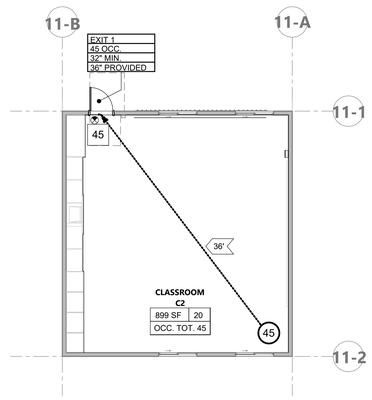


OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 10 (NO ADDED SF OR CHANGE IN USE)

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
C2	CLASSROOM	EDUCATIONAL CLASSROOM AREA	877 SF	20 SF	44	E	49	2'-8"	1	1
C3	CLASSROOM	EDUCATIONAL CLASSROOM AREA	874 SF	20 SF	44	E	49	2'-8"	1	1
C4	CLASSROOM	EDUCATIONAL CLASSROOM AREA	875 SF	20 SF	44	E	49	2'-8"	1	1
C5	CLASSROOM	EDUCATIONAL CLASSROOM AREA	875 SF	20 SF	44	E	49	2'-8"	1	1
C6	CLASSROOM	EDUCATIONAL CLASSROOM AREA	874 SF	20 SF	44	E	49	2'-8"	1	1
OCCUPANT TOTAL:					220					

PROJECT NORTH

BLDG. 10 FLOOR PLAN | 1/8" = 1'-0" | **1**

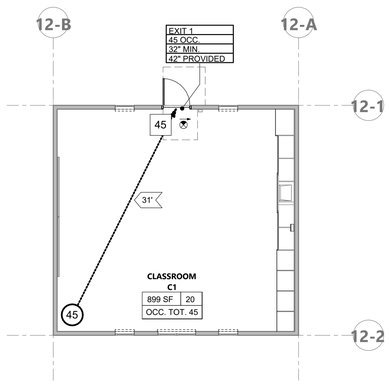


OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 11 (NO ADDED SF OR CHANGE IN USE)

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
C1	CLASSROOM	EDUCATIONAL CLASSROOM AREA	899 SF	20 SF	45	E	49	2'-8"	1	1
OCCUPANT TOTAL:					45					

PROJECT NORTH

BLDG. 11 FLOOR PLAN | 1/8" = 1'-0" | **2**



OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 12 (NO ADDED SF OR CHANGE IN USE)

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
C0	CLASSROOM	EDUCATIONAL CLASSROOM AREA	899 SF	20 SF	45	E	49	2'-8"	1	1
OCCUPANT TOTAL:					45					

PROJECT NORTH

BLDG. 12 FLOOR PLAN | 1/8" = 1'-0" | **3**

LEGEND - CODE ANALYSIS

1 HR RATED SEPERATION
2 HR RATED SEPERATION
3 HR RATED SEPERATION

OCCUPANCY TAG

ROOM NAME
101
150 SF | 15
OCC. TOT. 25

- ROOM NUMBER
- OCCUPANT LOAD FACTOR
- TOTAL OCCUPANCY CALCULATED
- ROOM AREA

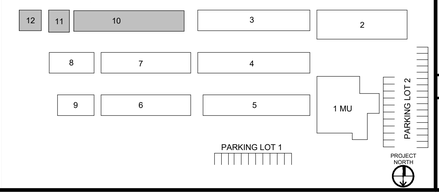
EGRESS WIDTH TAG

EXIT 01
123 OCC.
36" MIN.
36" PROVIDED

- EXIT LOCATION
- TOTAL OCCUPANTS CALCULATED
- MINIMUM EXIT WIDTH CALCULATED
- EXIT WIDTH PROVIDED

- BUILDING EXIT
- FE — FIRE EXTINGUISHER (FE)
- 0' — EGRESS DISTANCE
- ### — OCCUPANTS EXITING, OR TOTAL OCCUPANTS THIS ROOM
- INTERIOR WORK NOT IN SCOPE
- (###) — OCCUPANTS ALONG PATH, OR BLEACHER SEATING OCCUPANT COUNT
- PH — PANIC HARDWARE
- EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS

KEY PLAN



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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

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BLDG 10, 11 & 12 - EXIT ANALYSIS

INC.2

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

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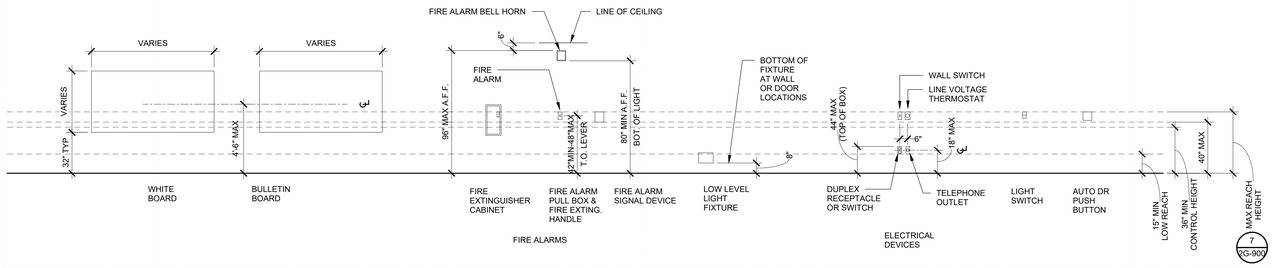
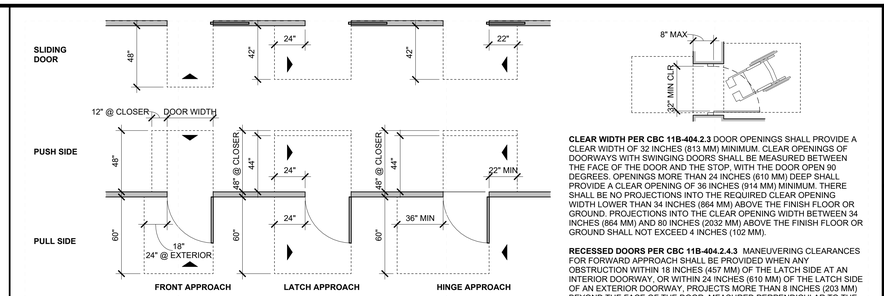


21.12.14 - 00000

TYPICAL MOUNTING HEIGHTS | 1/4" = 1'-0" | 11



MANEUVERING CLEARANCES PER CBC 11B-404.2.4 & TABLE 11B-404.2.4.1

CLEAR WIDTH PER CBC 11B-404.2.3 DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (813 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (914 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (864 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (864 MM) AND 80 INCHES (2032 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (102 MM).

RECESSED DOORS PER CBC 11B-404.2.4.3 MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES (457 MM) OF THE LATCH SIDE AT AN INTERIOR DOORWAY, OR WITHIN 24 INCHES (610 MM) OF THE LATCH SIDE OF AN EXTERIOR DOORWAY, PROJECTS MORE THAN 8 INCHES (203 MM) BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE.

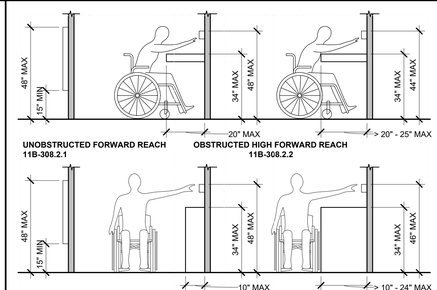
21.12.14 - 00000

CLEAR AREA AT DOORS | 1/4" = 1'-0" | 1

CLEARANCE TO FINISH SURFACE				
FIXTURE	ADULT	FOR CHILDREN'S USE AGES 5-8	FOR CHILDREN'S USE AGES 9-12	CBC TABLE 11B-604.9
DISPENSER OR MIRROR HEIGHT	40" MAX.	40" MAX	40" MAX.	
DRINKING FOUTAIN BUBBLER HEIGHT	36" MAX.	PARALLEL APROACH 30" MAX.	PARALLEL APROACH 30" MAX.	
DRINKING FOUTAIN KNEE CLEARANCE	27" MIN.	27" MIN.	27" MIN.	
HIGH D.F. SPOUT HEIGHT	38"-43"	38"-43"	38"-43"	
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	
T.P. DISPENSER OUTLET(A.F.F., TO CENTER LINE OF OUTLET OR ROLL)	19" MIN.	14"-17"	17"19"	
TOILET CENTERLINE FROM WALL	17"-18"	12"-15"	15"-18"	
TOILET PAPER IN FRONT OF TOILET	7"-9"	7"-9"	7"-9"	
TOILET SEAT HEIGHT (AT SEAT LID)	17"-19"	12"-15"	15"-18"	
TOP OF GRAB BAR HEIGHT	33"-36"	20"-25"	25"-27"	
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	44" MAX.	
URINAL LIP HEIGHT	17" MAX.	17" MAX.	17" MAX.	

PLUMBING FIXTURE CLEARANCES | N.T.S. | 21

ACCESSIBLE FIXTURE DIMENSION | 1/2" = 1'-0" | 12



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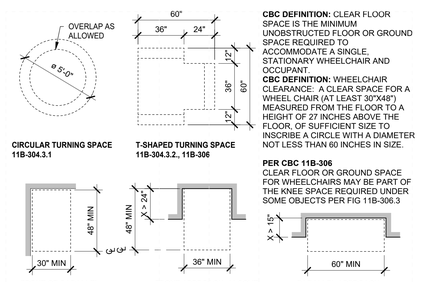
REACH RANGE | 3/8" = 1'-0" | 7



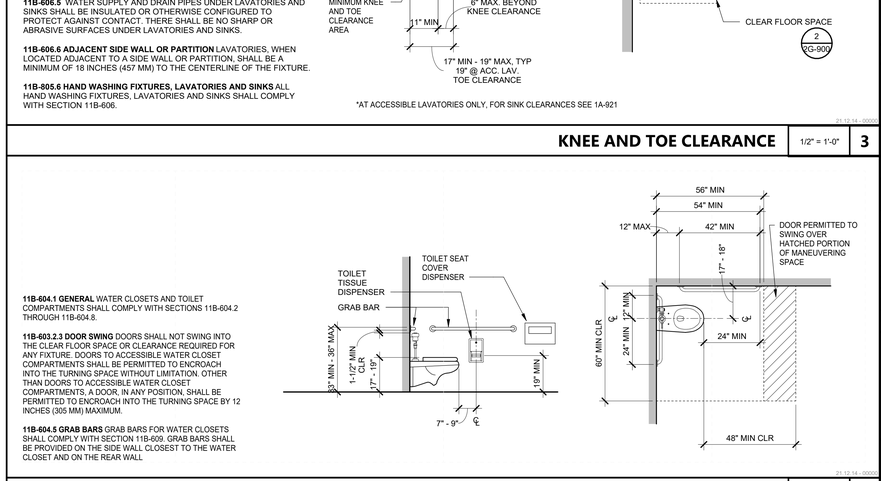
CBC DEFINITION: CLEAR FLOOR SPACE IS THE MINIMUM UNOBSTRUCTED FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT.
CBC DEFINITION: WHEELCHAIR CLEARANCE: A CLEAR SPACE FOR A WHEEL CHAIR (AT LEAST 30"X48") MEASURED FROM THE FLOOR TO A HEIGHT OF 27 INCHES ABOVE THE FLOOR, OF SUFFICIENT SIZE TO INSCRIBE A CIRCLE WITH A DIAMETER NOT LESS THAN 60 INCHES IN SIZE.

PER CBC 11B-306
CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE PART OF THE KNEE SPACE REQUIRED UNDER SOME OBJECTS PER FIG 11B-306.3

21.12.14 - 00000

TURNING SPACE, CLEAR FLOOR SPACE | 1/4" = 1'-0" | 2

ACCESSIBLE WATER CLOSET | 3/8" = 1'-0" | 4



KNEE AND TOE CLEARANCES PER CBC 11B-306

11B-306.1 GENERAL WHERE SPACE BENEATH AN ELEMENT IS INCLUDED AS PART OF CLEAR FLOOR OR GROUND SPACE OR TURNING SPACE, THE SPACE SHALL COMPLY WITH SECTION 11B-306. ADDITIONAL SPACE SHALL NOT BE PROHIBITED BENEATH AN ELEMENT BUT SHALL NOT BE CONSIDERED AS PART OF THE CLEAR FLOOR OR GROUND SPACE OR TURNING SPACE.

11B-306.2.5 WIDTH TOE CLEARANCE SHALL BE 30 INCHES (762 MM) WIDE MINIMUM.

11B-306.3.5 WIDTH KNEE CLEARANCE SHALL BE 30 INCHES (762 MM) WIDE MINIMUM.

11B-606.1 GENERAL LAVATORIES AND SINKS SHALL COMPLY WITH SECTION 11B-606.

11B-606.5 WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

11B-606.6 ADJACENT SIDE WALL OR PARTITION LAVATORIES, WHEN LOCATED ADJACENT TO A SIDE WALL OR PARTITION, SHALL BE A MINIMUM OF 18 INCHES (457 MM) TO THE CENTERLINE OF THE FIXTURE.

11B-805.6 HAND WASHING FIXTURES, LAVATORIES AND SINKS ALL HAND WASHING FIXTURES, LAVATORIES AND SINKS SHALL COMPLY WITH SECTION 11B-606.

*AT ACCESSIBLE LAVATORIES ONLY, FOR SINK CLEARANCES SEE 1A-921

KNEE AND TOE CLEARANCE | 1/2" = 1'-0" | 3

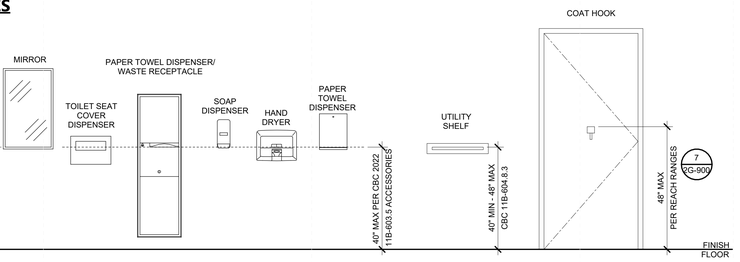
11B-604.1 GENERAL WATER CLOSETS AND TOILET COMPARTMENTS SHALL COMPLY WITH SECTIONS 11B-604.2 THROUGH 11B-604.8.

11B-603.2.3 DOOR SWING DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS TO ACCESSIBLE WATER CLOSET COMPARTMENTS SHALL BE PERMITTED TO ENCROACH INTO THE TURNING SPACE WITHOUT LIMITATION. OTHER THAN DOORS TO ACCESSIBLE WATER CLOSET COMPARTMENTS, A DOOR, IN ANY POSITION, SHALL BE PERMITTED TO ENCROACH INTO THE TURNING SPACE BY 12 INCHES (305 MM) MAXIMUM.

11B-604.5 GRAB BARS GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH SECTION 11B-609. GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND ON THE REAR WALL

21.12.14 - 00000

ACCESSIBLE WATER CLOSET | 3/8" = 1'-0" | 4



21.12.14 - 00000

PLUMBING FIXTURE CLEARANCES | N.T.S. | 21

ACCESSIBLE FIXTURE DIMENSION | 1/2" = 1'-0" | 12

AGENCY APPROVAL DSA# 01-121440

196

911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARLINA ALVAREZ SILVA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
ACCESSIBILITY CLEARANCES

INCREMENT: INC.2

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.
2G-900

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:43:28 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

GENERAL NOTES

1. All work shall be done in accordance with the following:
   a) Applicable sections of the State of California Department of Transportation Standard Specifications, latest edition, hereinafter called "Caltrans";
   b) California Plumbing Code and California Building Code Provisions
   c) AWWA standards and specifications;
   d) City of Clayton Standard Details and Specifications where applicable;
   e) These plans and details shown hereon;
   f) Standards of the United States Department of Labor, Occupational Safety and Health Administration, Office of Standards and rules of the State Division of Industrial Safety.
   g) Latest edition of the California State Code of Regulations Title 24.
   h) The Project Specifications

Where conflicts exist between any of the above listed specifications, the most stringent listed specification shall prevail.

2. It is the responsibility of the Contractor to secure all permits necessary to perform the work, including but not limited to, work in the public right-of-way, grading, tree removal, and utility modifications.

3. Contractor shall supply all equipment, labor, and materials necessary to perform the work shown on this plan.

4. It shall be the responsibility of the various contractors to coordinate their work so as to eliminate conflicts and work toward the general good and completion of the entire project.

5. All workmanship and materials furnished by Contractor shall be of the kind and quality described in the specifications and shall be first class throughout. Neither final acceptance nor final payment by Owner shall relieve the Contractor of responsibility for faulty materials or workmanship.

6. In the event of any conflict of information shown in these plans or any conflict between these plans and the intent of a consistent and functional product, the Contractor shall so notify the Owner in writing, upon which notice the Owner shall resolve the conflict by the issuance of a written order, revised plans or both. The Contractor shall bear full cost and responsibility for work affected by such conflicts and performed by Contractor prior to such notice to the Owner and issuance of such order and/or revised plans.

7. Contractor shall provide adequate dust control at all times as required by Owner's representative.

8. Contractor shall exercise all necessary caution to avoid damage to any existing trees, or surface improvements, or to any existing drainage structure, water structures, sewer cleanouts, manholes, or junction boxes for underground electric, telephone, or cable TV, or storm sewer, sanitary sewer, water line, and underground utilities, which are to remain in place and shall bear full responsibility for any damage thereto.

9. All known existing utility lines are shown for information only. Contractor shall exercise all necessary caution to avoid damage to any existing utility lines or facilities to remain in place, whether or not such lines or facilities are shown on these plans, and shall bear full responsibility for any damage thereto. Contractor is advised to Contact Underground Service Alert (USA) at (800) 642-2444 or a private Underground Locater Service (at contractor's expense) and the affected utility company for marking underground lines prior to beginning work.

10. Inspection of work: The City of Clayton Public Works Department will inspect all work involving conformance to encroachment permit. A representative of Owner will inspect all work, including grades and compaction of earthwork. Contractor shall notify the City of Clayton public works at least forty eight (48) hours prior to work within the public ROW.

11. Engineer shall have no responsibility for Contractor's work methods and procedures, jobsite conditions, jobsite safety or adherence to safety procedures and requirements.

12. The Contractor agrees that, in accordance with generally accepted construction practices, the Contractor will be required to assume sole and complete responsibility for jobsite conditions during the course of construction of the project, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours. The contractor agrees to defend, indemnify and hold Owner and Engineer harmless from any and all liability, real or alleged, in connection with the performance of the work on this project, exempting liability arising from the sole negligence of the Engineer or Owner.

13. Parking lot striping shall be laid out in accordance with the Horizontal Control Plan, and in accordance with the City of Clayton Standard specifications.

14. Contractor shall provide appropriate traffic control measures as outlined in the City of Clayton specifications and as directed by the City Engineer.

GRADING AND PAVING NOTES

1. Work shall consist of all clearing, grubbing, and stripping, preparation of land to be filled, excavation, spreading, compaction and control of the fill, and all subsidiary work necessary to complete the grading to conform to the lines, grades and slopes, as shown on the accepted plans and as specified in the Geotechnical Investigation Report.

2. Not used.

3. The Contractor's attention is directed to the City of Clayton Off-Site plans for work within the ROW. Contractor shall adhere to the requirements thereof.

4. The Contractor shall notify the Soil Engineer at least forty-eight (48) hours prior to commencement of any grading operations on-site.

5. A representative of the Soils Engineer shall be on site during grading operations and shall perform such testing as deemed necessary. The representative shall observe the grading operation for conditions that should be corrected, and identify those conditions with recommended corrective measures to the Contractor.

6. In the event that any unusual conditions not covered by these notes and the Soils Investigation are encountered during grading operations, the Soils Engineer shall be immediately notified for recommendations.

7. All existing trash, debris, roots, tree remains and other rubbish shall be removed from the site so as to leave the areas that have been disturbed with a neat and finished appearance free from unsightly debris. No burning shall be permitted.

8. Contractor shall grade to the line and elevations shown on the plan within the following horizontal and vertical tolerance, in the areas indicated:

	Horizontal	Vertical
a. Building Pad Subgrade	0.50'+	0.05'+
b. Driveway and parking area subgrade preparation	0.05'+	0.05'+

9. All aggregate base material and the handling and placement thereof shall be in accordance with the Caltrans Standard Specifications. Aggregate base materials shall be Class II.

10. Compacted building pads shall extend 5 feet minimum beyond building footprint.

11. Asphalt concrete (AC) shall be Type A, 3/4" maximum aggregate size for base course and 1/2" maximum aggregate size for surface course, as specified for surface course material in the Caltrans Specification. 2" thickness may be placed in one lift.

12. Not used.

13. SS-I emulsified asphalt paint binder conforming to the provisions of the Caltrans Specification shall be applied at the rate of 0.07+ gallons per square yard to existing asphalt concrete surface and vertical concrete surfaces to receive asphalt concrete.

14. SS-I emulsified liquid asphalt seal coat conforming to the provisions of the Caltrans Specifications shall be diluted with equal parts water and applied at the rate of 0.15+ gallons per square yard to surface of the new finished asphalt paving surface and existing asphalt paving surfaces to remain in place. Existing asphalt surfaces shall be cleaned prior to seal coat operation.

15. Contractor shall adjust all inlets, valve boxes, manhole rims, and sewer cleanouts to new finish grade.

16. Materials handling and placement of Portland Cement Concrete shall be in accordance with applicable sections of the Caltrans Standard Specifications and these plans and details shown hereon. Concrete to be Class A, 6 sack, 3000 PSI concrete.

UNDERGROUND NOTES

1. Contractor shall expose and verify location and elevation of existing utilities, including sanitary and storm sewers, and water lines before constructing new facilities. Contractor shall cap existing irrigation lines where necessary so that the remaining irrigation system will continue to be operational for the existing landscaping to remain.

2. Materials for pipe, storm water inlets and cleanouts and installation procedures shall be in accordance with applicable California Building Code sections and the City of Clayton Standard Specifications, the Project Specifications and these plans and details shown hereon.

   Storm Sewer Pipe designated "SD" shall be SDR 26 PVC pipe or HDPE ADS N-12 pipe appropriate for such use. Storm Sewer Pipe designated "DIP" shall be ductile iron pipe appropriate for such use.

   Storm Sewer Pipe designated "RCP" shall be reinforced concrete pipe appropriate for such use.

   Sanitary Sewer Pipe designated "SS" shall be vitrified clay pipe or SDR 26 PVC pipe appropriate for such use.

   Water Pipe designated "WATER" or "W" shall be Schedule 80 PVC pipe appropriate for such use

   Fire Lines designated "FIRE LINE" or "F" shall be AWWA C900 PVC – DR 18 pipe appropriate for such use

3. Ensure grates are ADA compliant (comply with 11B-302.3) for all existing inlets to remain in travelled access paths, subject to pedestrian traffic. Replace as necessary.

4. All trench excavation and backfill for sewer lines shall conform to requirements of the City of Clayton Standard Specifications. Jetting of backfill materials to achieve compaction is not allowed.

5. All trenches and excavations shall be constructed in strict compliance with the applicable sections of California and Federal O.S.H.A. requirements and other applicable safety ordinances. Contractor shall bear full responsibility for trench shoring design and installation.

6. Materials for pipe and installation requirements for domestic water lines shall be in accordance with applicable California Plumbing Code sections and the City of Clayton Standard Specifications and these plans and details shown hereon.

7. Soils on the site have been found to be corrosive. All buried metallic pipes, fittings and appurtenances associated with the water pipelines shall be encased in 8-mil polyethylene per AWWA C-105. All buried copper water service lines shall be encased in 6-mil polyethylene sleeve in accordance with AWWA C-105

ABBREVIATIONS

AB	AGGREGATE BASE		
AC	ASPHALT CONCRETE	LTB	LIME TREATED BASE
ACC	ACCESSIBLE	(ME)	MATCH EXISTING ELEVATION
ARCH	ARCHITECTURAL	MH	MANHOLE
BS	BOTTOM OF STEP	ML	MONUMENT LINE
BW	BACK OF WALK ELEVATION	(N)	NEW
BOW	BOTTOM OF WALL ELEVATIONS	PAV	PAVEMENT SURFACE ELEVATION
CB	CATCH BASIN	℄	PROPERTY LINE
CI	CAST IRON	PP	PERFORATED PIPE
℄	CENTER LINE	RIM	RIM ELEVATION
CLF	CHAIN LINK FENCE	RS	TOP OF RAT SLAB ELEVATION
C&G	CURB AND GUTTER	RWL	RAIN WATER LEADER
CONC	CONCRETE	S=	SLOPE
C	CONCRETE ELEVATION	SD	STORM DRAIN
DWY	DRIVEWAY	S.A.D.	SEE ARCHITECT DRAWINGS
E	ELECTRICAL	S.E.D.	SEE ELECTRICAL DRAWINGS
(E)	EXISTING	S.L.D.	SEE LANDSCAPE DRAWINGS
EBOX	ELECTRICAL BOX	S.P.D.	SEE PLUMBING DRAWINGS
EC	EDGE OF CONCRETE	SG	SUBGRADE ELEVATION
EP	EDGE OF PAVEMENT	SS	SANITARY SEWER
EV	ELECTRICAL VAULT	SSCO	SANITARY SEWER CLEANOUT
F	FIRE LINE	S/W	SIDEWALK
FG	FINISH GRADE	STLT	STREET LIGHT
FNC	FENCE	T	TELEPHONE
FH	FIRE HYDRANT	TC	TOP OF CURB
FF	FINISHED FLOOR ELEVATION	TD	TRENCH DRAIN
FL	FLOW LINE	TILE	TOP OF TILE ELEVATION
FOC	FACE OF CURB	TOE	TOE OF BANK
G	GAS	TOW	TOP OF WALL ELEVATION
GB	GRADE BREAK	TP	TELEPHONE POLE
GND	GROUND ELEVATION	TR	TOP OF RAMP
JP	JOINT POLE	TS	TOP OF STEP
ICV	IRRIGATION CONTROL VALVE	TSB	TRAFFIC SIGNAL BOX
INV	INVERT	VLT	VAULT
LF	LINEAR FEET	W	WATER
LS	LANDSCAPE	WV	WATER VALVE

SHEET INDEX

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GRADING & DRAINAGE PLAN	2-C2.1
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NOTES, LEGEND & DETAILS	2-C4.1
DETAILS	2-C4.2
HORIZONTAL CONTROL PLAN	2-C5.1
EROSION CONTROL PLAN	2-C6.1

LEGEND

DESCRIPTION	PROPOSED	EXISTING
PROPERTY LINE		
CENTERLINE		
CURB & GUTTER		
VERTICAL CURB		
ASPHALT EDGE / SAWCUT		
EXPANSION JOINT		
SCORE JOINT		
VALLEY GUTTER		
TRENCH DRAIN		
PERF PIPE		
RAINWATER LEADER		
STORM LINE		
SANITARY LINE		
WATER LINE		
GAS LINE		
FIRE SPRINKLER	FS	
FIRE LINE	F	
FENCE		
ROLLING FENCE		
CITY CONFORM		
ADA DROP OFF		
FIRE LANE		
TYPICAL RAMP		
ACCESSIBLE RAMP		
TRUNCATED DOMES		
STORM DRAIN INLET		
AREA DRAIN		
END SECTION		
END SECTION MITERED DRAIN GRATE		
DRY WELL CONDENSATE		
BOLLARD		
HYDRANT		
FIRE DEPARTMENT CONNECTION (FDC)		
POST INDICATOR VALVE (PIV)		
THRUST BLOCK		
SHUT OFF VALVE (SOV)		
CHECK VALVE		
BACKFLOW		
ELECTROLIER		
ELECTROLIER CONDUIT & CABLE W/PULL BOX		
DIRECTION & RATE OF SLOPE	0.015	
SWALE		
CONTOUR		
LIGHTING POLE		
EV CHARGING STATION		
ASPHALT PAVING – AUTO		
CONCRETE PAVING – PEDESTRIAN		
SOD		

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CARROLL ENGINEERING
engineers and surveyors
1101 S. WINCHESTER BLVD. SUITE H-154
SAN JOSE, CA 95128
TEL: 408-261-9800
FAX: 408-261-0395
E-MAIL: Robert@carroll-engineering.com

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MARTIN
No. C 68770
Exp. 12/31/25
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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1936 Carlotta Dr. Concord
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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

NOTES, LEGEND & INDEX

ING.2

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.

2-C0.1

DATE: SEPTEMBER 19, 2024

CONSTRUCTION DOCUMENTS

Construction Contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting liability arising from the sole negligence of design professional.

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UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

LEGEND

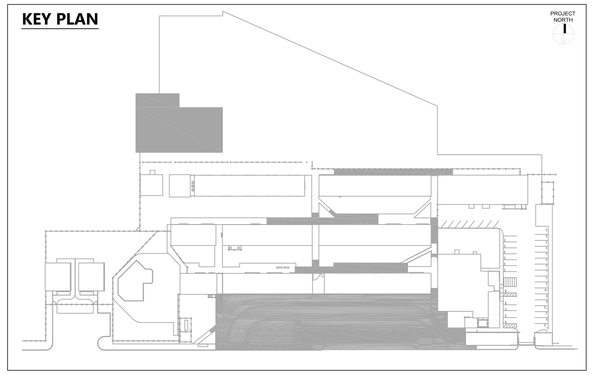
X	TREE TO BE REMOVED REMOVE ALL ROOTS
O	TREE TO REMAIN – PROTECT FROM DAMAGE. SEE LANDSCAPE SPECIFICATIONS AND DRAWINGS FOR TREE PROTECTION NOTES
1	ASPHALT PAVING & AGGREGATE BASE ROCK TO BE REMOVED, REMOVE HEADER BOARD TYP.
2	CONCRETE TO BE REMOVED, REMOVE AGGREGATE BASE
3	SHRUBS AND/OR LANDSCAPING TO BE REMOVED. GRUB OUT ALL VEGETATION/ REMOVE BARK OR WOOD CHIPS. REMOVE PLANTER BOXES. REMOVE ANY IRRIGATION LINES OR VALVES.
4	—x—x—x— FENCE/GATES/FOUNDATIONS TO BE REMOVED
5	REMOVE PLAY STRUCTURES / TILE PLAYMATTING SURFACE, CURBS, DRAINS AND BASE

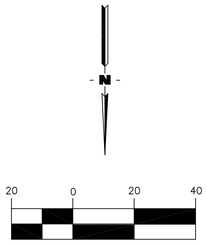
1. SAWCUT ASPHALT OR REMOVE CONCRETE TO NEAREST CONTROL JOINT
2. EXTENT OF FENCE REMOVAL
3. COLUMN / POLE / RWL TO REMAIN.
4. SDCO / SSCO / INLET TO REMAIN.
5. REMOVE, SALVAGE & RELOCATE METAL BENCHES PER ARCHITECTURAL DRAWINGS

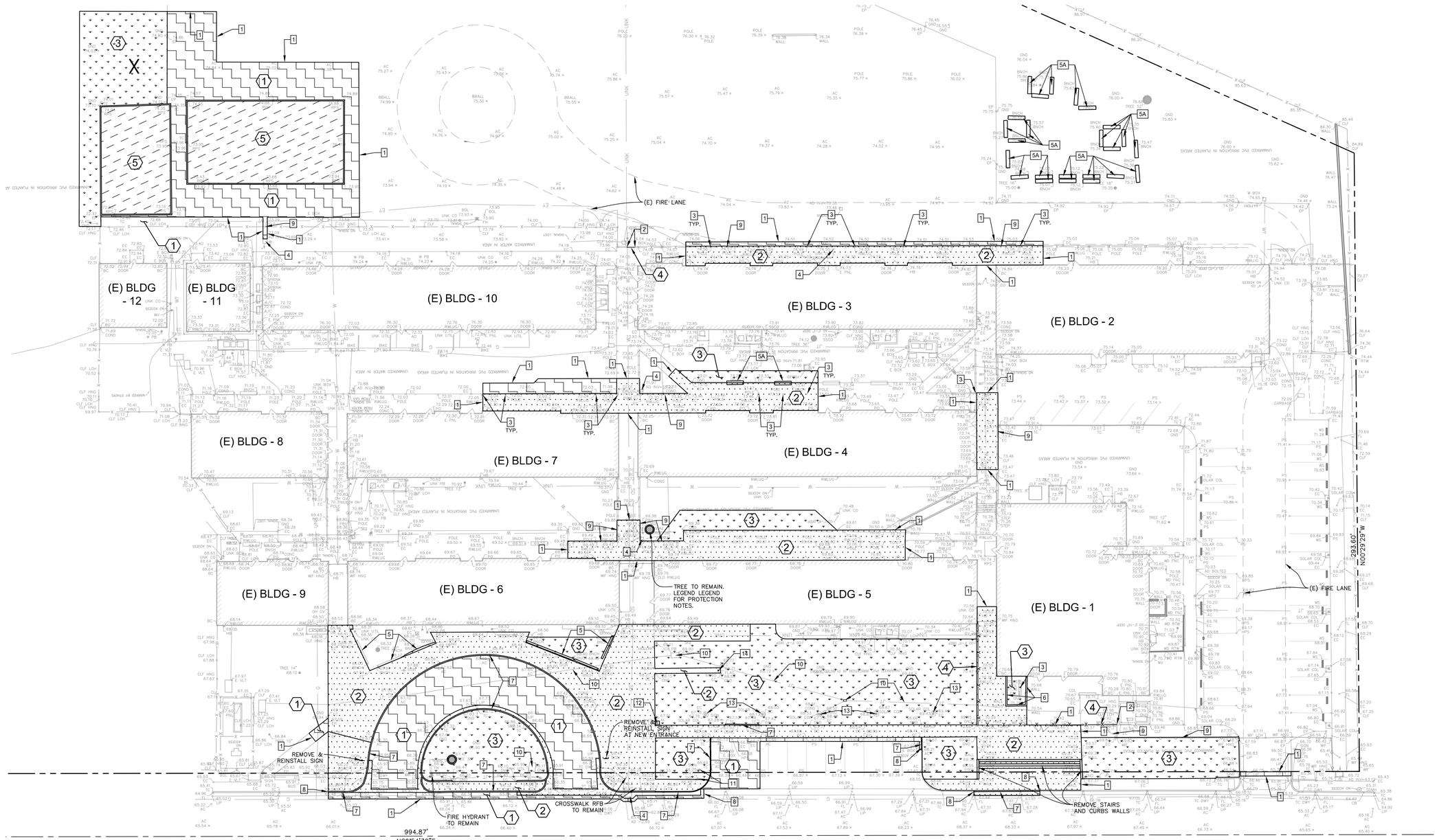
5A. REMOVE BENCHES

6. REMOVE PLANTER
7. REMOVE CURB / CURB & GUTTER / VALLEY GUTTER
8. EXTENT OF REMOVAL OF CURB / CURB & GUTTER / VALLEY GUTTER
9. FENCE / GATE TO REMAIN
10. ELECTRICAL LINES, VAULT TO REMAIN, PROTECT
11. SIGN TO REMAIN
12. REMOVE LIGHT POLE & FOUNDATION
13. SOLAR CANOPY STRUCTURE TO REMAIN
14. REMOVE FLAG POLE & FOUNDATION

KEY PLAN







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AGENCY APPROVAL DSA# 01-121440

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CARROLL ENGINEERING engineers and surveyors
1101 S. WINCHESTER BLVD. SUITE H-184
SAN JOSE, CA 95128
TEL 408-261-9800
FAX 408-261-0995
E-MAIL: Robert@carroll-engineering.com

CONSULTANTS

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San Jose, CA 95128
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CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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ATUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

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BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
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TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MARTIS
No. C 68770
Exp. 12/31/25
STATE OF CALIFORNIA
CIVIL

REVISIONS

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

DEMOLITION PLAN

INC.2

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.

2-C1.1

DATE: SEPTEMBER 19, 2024

CONSTRUCTION DOCUMENTS

GRADING PLAN NOTES:

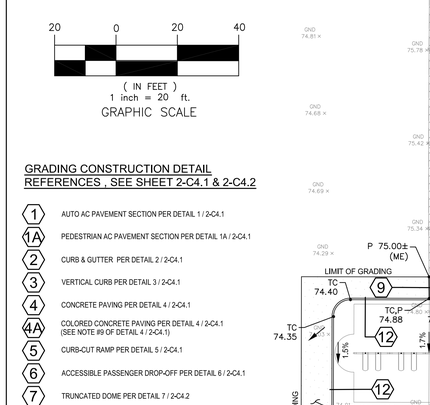
1. 2LF-CURB TRANSITION (0"-6")
2. SAWCUT AND CONFORM TO (E) ASPHALT
3. CONFORM TO (E) CONCRETE AT NEAREST CONTROL JOINT
4. 15LF-CURB TRANSITION (0"-6")
5. 20LF-CURB TRANSITION (0"-6")

20 0 20 40

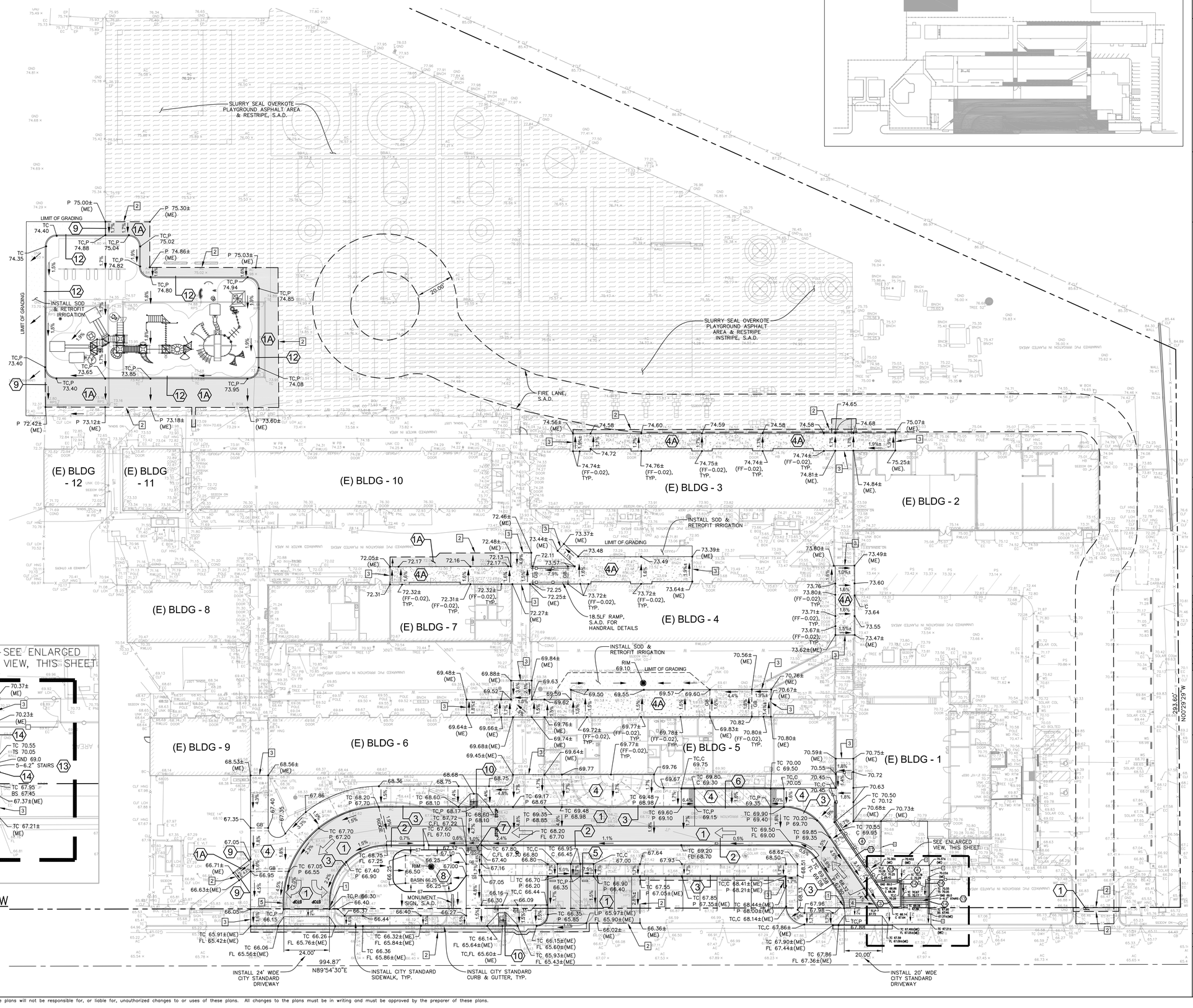
(IN FEET)
1 inch = 20 ft.
GRAPHIC SCALE

GRADING CONSTRUCTION DETAIL REFERENCES , SEE SHEET 2-C4.1 & 2-C4.2

1. AUTO AC PAVEMENT SECTION PER DETAIL 1 / 2-C4.1
1A. PEDESTRIAN AC PAVEMENT SECTION PER DETAIL 1A / 2-C4.1
2. CURB & GUTTER PER DETAIL 2 / 2-C4.1
3. VERTICAL CURB PER DETAIL 3 / 2-C4.1
4. CONCRETE PAVING PER DETAIL 4 / 2-C4.1
4A. COLORED CONCRETE PAVING PER DETAIL 4 / 2-C4.1 (SEE NOTE #9 OF DETAIL 4 / 2-C4.1)
5. CURB-CUT RAMP PER DETAIL 5 / 2-C4.1
6. ACCESSIBLE PASSENGER DROP-OFF PER DETAIL 6 / 2-C4.1
7. TRUNCATED DOME PER DETAIL 7 / 2-C4.2
8. BIO-RETENTION AREA PER DETAIL 8 / 2-C4.2
9. HEADERBOARD PER DETAIL 15 / 2-C4.2
10. CURB-CUT RAMP PER DETAIL 10 / 2-C4.2
11. CONCRETE CURB - TYPE I PER DETAIL 11 / 2-C4.2
12. CONCRETE CURB @ POURED-IN-PLACE PER DETAIL 12 / 2-C4.2
13. CONCRETE STEPS PER DETAIL 13 / 2-C4.2
14. EDGE OF STEP - CURB PER DETAIL 14 / 2-C4.2



ENLARGED VIEW
SCALE: 1"=10'



KEY PLAN

AGENCY APPROVAL DSA# 01-121440

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SAN JOSE, CA 95126
TEL (408) 715-4470

CARROLL ENGINEERING engineers and surveyors
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YAMASAKI LANDSCAPE ARCHITECTURE
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Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER MATTHEW PAUL MARKUS No. C 68770 Exp. 12/31/25 STATE OF CALIFORNIA

REVISIONS

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611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

GRADING & DRAINAGE PLAN

INC.2

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.

2-C2.1

DATE: SEPTEMBER 19, 2024

CONSTRUCTION DOCUMENTS

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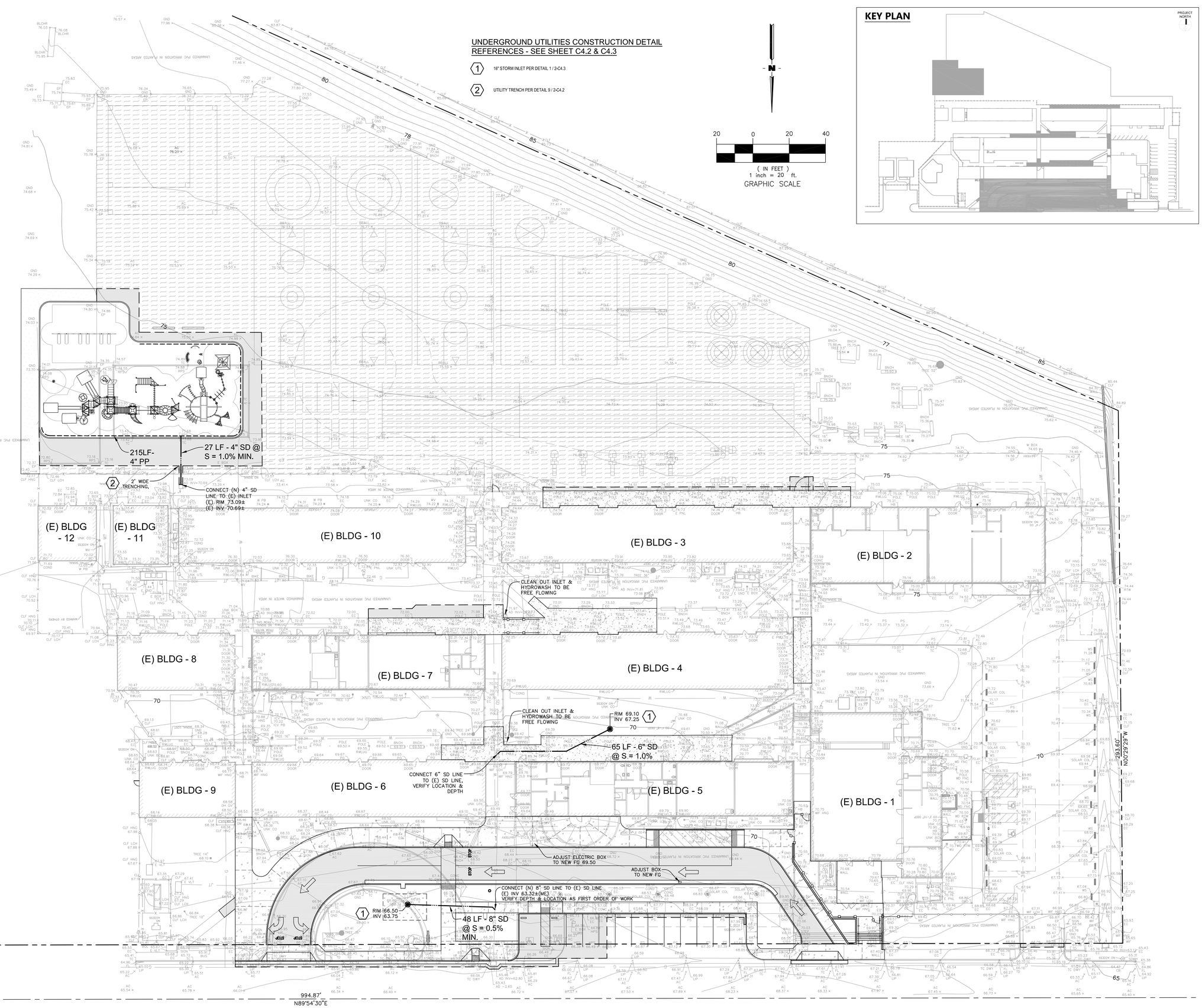

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SHEET TITLE

UNDERGROUND UTILITIES PLAN

INC.2

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.

2-C3.1

DATE: SEPTEMBER 19, 2024

CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. All work shall be done in accordance with the following:
   a) Applicable sections of the State of California Department of Transportation Standard Specifications, latest edition, hereinafter called "Caltrans";
   b) California Plumbing Code and California Building Code 2022 Provisions
   c) AWWA standards and specifications;
   d) City of Bay Point Standard Details and Specifications where applicable;
   e) These plans and details shown hereon;
   f) Standards of the United States Department of Labor, Occupational Safety and Health Administration, Office of Standards and rules of the State Division of Industrial Safety.
   g) Latest edition of the California State Code of Regulations Title 24.
   h) The Project Specifications

Where conflicts exist between any of the above listed specifications, the most stringent listed specification shall prevail.

2. It is the responsibility of the Contractor to secure all permits necessary to perform the work, including but not limited to, work in the public right-of-way, grading, tree removal, and utility modifications.

3. Contractor shall supply all equipment, labor, and materials necessary to perform the work shown on this plan.

4. It shall be the responsibility of the various contractors to coordinate their work so as to eliminate conflicts and work toward the general good and completion of the entire project.

5. All workmanship and materials furnished by Contractor shall be of the kind and quality described in the specifications and shall be first class throughout. Neither final acceptance nor final payment by Owner shall relieve the Contractor of responsibility for faulty materials or workmanship.

6. In the event of any conflict of information shown in these plans or any conflict between these plans and the intent of a consistent and functional product, the Contractor shall so notify the Owner in writing, upon which notice the Owner shall resolve the conflict by the issuance of a written order, revised plans or both. The Contractor shall bear full cost and responsibility for work affected by such conflicts and performed by Contractor prior to such notice to the Owner and issuance of such order and/or revised plans.

7. Contractor shall provide adequate dust control at all times as required by Owner's representative.

8. Contractor shall exercise all necessary caution to avoid damage to any existing trees, or surface improvements, or to any existing drainage structure, water structures, sewer cleanouts, manholes, or junction boxes for underground electric, telephone, or cable TV, or storm sewer, sanitary sewer, water line, and underground utilities, which are to remain in place and shall bear full responsibility for any damage thereto.

9. All known existing utility lines are shown for information only. Contractor shall exercise all necessary caution to avoid damage to any existing utility lines or facilities to remain in place, whether or not such lines or facilities are shown on these plans, and shall bear full responsibility for any damage thereto. Contractor is advised to Contact Underground Service Alert (USA) at (800) 642-2444 or a private Underground Locater Service (at contractor's expense) and the affected utility company for marking underground lines prior to beginning work.

10. Inspection of work: The City of Bay Point Public Works Department will inspect all work involving conformance to encroachment permit. A representative of Owner will inspect all work, including grades and compaction of earthwork. Contractor shall notify the City of Bay Point public works at least forty eight (48) hours prior to work within the public ROW.

11. Engineer shall have no responsibility for Contractor's work methods and procedures, jobsite conditions, jobsite safety or adherence to safety procedures and requirements.

12. The Contractor agrees that, in accordance with generally accepted construction practices, the Contractor will be required to assume sole and complete responsibility for jobsite conditions during the course of construction of the project, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours. The contractor agrees to defend, indemnify and hold Owner and Engineer harmless from any and all liability, real or alleged, in connection with the performance of the work on this project, exempting liability arising from the sole negligence of the Engineer or Owner.

13. Parking lot striping shall be laid out in accordance with the Horizontal Control Plan, and in accordance with the City of Bay Point Standard specifications.

14. Contractor shall provide appropriate traffic control measures as outlined in the City of Bay Point specifications and as directed by the City Engineer.

GRADING AND PAVING NOTES

1. Work shall consist of all clearing, grubbing, and stripping, preparation of land to be filled, excavation, spreading, compaction and control of the fill, and all subsidiary work necessary to complete the grading to conform to the lines, grades and slopes, as shown on the accepted plans and as specified in the Geotechnical Investigation Report.

2. NOT UED.

3. The Contractor's attention is directed to the City of Bay Point Off-Site plans for work within the ROW. Contractor shall adhere to the requirements thereof.

4. The Contractor shall notify the Soil Engineer at least forty-eight (48) hours prior to commencement of any grading operations on-site.

5. A representative of the Soils Engineer shall be on site during grading operations and shall perform such testing as deemed necessary. The representative shall observe the grading operation for conditions that should be corrected, and identify those conditions with recommended corrective measures to the Contractor.

6. In the event that any unusual conditions not covered by these notes and the Soils Investigation are encountered during grading operations, the Soils Engineer shall be immediately notified for recommendations.

7. All existing trash, debris, roots, tree remains and other rubbish shall be removed from the site so as to leave the areas that have been disturbed with a neat and finished appearance free from unsightly debris. No burning shall be permitted.

8. Contractor shall grade to the line and elevations shown on the plan within the following horizontal and vertical tolerance, in the areas indicated:

	Horizontal	Vertical
a. Building Pad Subgrade	0.50'+	0.05'+
b. Driveway and parking area subgrade preparation	0.05'+	0.05'+

9. All aggregate base material and the handling and placement thereof shall be in accordance with the Caltrans Standard Specifications. Aggregate base materials shall be Class II.

10. Compacted building pads shall extend 5 feet minimum beyond building footprint.

11. Asphalt concrete (AC) shall be Type A, 3/4" maximum aggregate size for base course and 1/2" maximum aggregate size for surface course, as specified for surface course material in the Caltrans Specification. 2" thickness may be placed in one lift.

12. SC-70 liquid asphalt prime coat conforming to the provisions of the Caltrans Specifications shall be applied at the rate of 0.15+ gallons per square yard to surface of aggregate base prior to placement of asphalt concrete.

13. SS-1 emulsified asphalt paint binder conforming to the provisions of the Caltrans Specification shall be applied at the rate of 0.07+ gallons per square yard to existing asphalt concrete surface and vertical concrete surfaces to receive asphalt concrete.

14. SS-1 emulsified liquid asphalt seal coat conforming to the provisions of the Caltrans Specifications shall be diluted with equal parts water and applied at the rate of 0.15+ gallons per square yard to surface of the new finished asphalt paving surface and existing asphalt paving surfaces to remain in place. Existing asphalt surfaces shall be cleaned prior to seal coat operation.

15. Contractor shall adjust all inlets, valve boxes, manhole rims, and sewer cleanouts to new finish grade.

16. Materials handling and placement of Portland Cement Concrete shall be in accordance with applicable sections of the Caltrans Standard Specifications and these plans and details shown hereon. Concrete to be Class A, 6 sack, 3000 PSI concrete.

UNDERGROUND NOTES

1. Contractor shall expose and verify location and elevation of existing utilities, including sanitary and storm sewers, and water lines before constructing new facilities. Contractor shall cap existing irrigation lines where necessary so that the remaining irrigation system will continue to be operational for the existing landscaping to remain.

2. Materials for pipe, storm water inlets and cleanouts and installation procedures shall be in accordance with applicable California Building Code sections and the City of Bay Point Standard Specifications, the Project Specifications and these plans and details shown hereon.

   Storm Sewer Pipe designated "SD" shall be SDR 26 PVC pipe or HDPE ADS N-12 pipe appropriate for such use. Storm Sewer Pipe designated "DIP" shall be ductile iron pipe appropriate for such use.

   Storm Sewer Pipe designated "RCP" shall be reinforced concrete pipe appropriate for such use.

   Sanitary Sewer Pipe designated "SS" shall be vitrified clay pipe or SDR 26 PVC pipe appropriate for such use.

   Water Pipe designated "WATER" or "W" shall be Schedule 80 PVC pipe appropriate for such use

   Fire Lines designated "FIRE LINE" or "F" shall be AWWA C900 PVC – DR 18 pipe appropriate for such use

3. Ensure grates are ADA compliant (comply with 11B-302.3) for all existing inlets to remain in travelled access paths, subject to pedestrian traffic. Replace as necessary.

4. All trench excavation and backfill for sewer lines shall conform to requirements of the City of Bay Point Standard Specifications. Jetting of backfill materials to achieve compaction is not allowed.

5. All trenches and excavations shall be constructed in strict compliance with the applicable sections of California and Federal O.S.H.A. requirements and other applicable safety ordinances. Contractor shall bear full responsibility for trench shoring design and installation.

6. Materials for pipe and installation requirements for domestic water lines shall be in accordance with applicable California Plumbing Code sections and the City of Bay Point Standard Specifications and these plans and details shown hereon.

7. Soils on the site have been found to be corrosive. All buried metallic pipes, fittings and appurtenances associated with the water pipelines shall be encased in 8-mil polyethylene per AWWA C-105. All buried copper water service lines shall be encased in 6-mil polyethylene sleeve in accordance with AWWA C-105

LEGEND

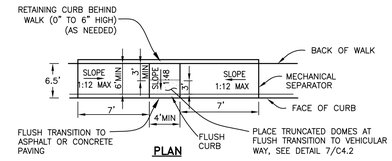
DESCRIPTION	PROPOSED	EXISTING
PROPERTY LINE		
CENTERLINE		
AC PAVEMENT		
PEDESTRIAN CONCRETE, S.L.D.		
BIO-RETENTION, S.L.D.		
CURB & GUTTER		
VERTICAL CURB		
EXPANSION JOINT		
SCORE JOINT		
VALLEY GUTTER		
TRENCH DRAIN		
PERF PIPE		
RAINWATER LEADER		
STORM LINE		
SANITARY LINE		
WATER LINE		
GAS LINE		
FIRE SPRINKLER		
FIRE LINE		
FENCE		
ROLLING FENCE		
CITY CONFORM		
ADA DROP OFF		
FIRE LANE		
TYP RAMP W/GROOVES		
TRUNCATED DOMES		
ACCESSIBLE RAMP		
STORM DRAIN INLET		
END SECTION		
BOLLARD		
HYDRANT		
FDC		
PIV		
THRUST BLOCK		
SOV		
CHECK VALVE		
BACKFLOW		
ELECTROLIER		
ELECTROLIER CONDUIT & CABLE W/PULL BOX		
DIRECTION & RATE OF SLOPE	0.015	
SWALE		
CONTOUR		

ABBREVIATIONS

AB	AGGREGATE BASE		
AC	ASPHALT CONCRETE	LTB	LIME TREATED BASE
ACC	ACCESSIBLE	(ME)	MATCH EXISTING ELEVATION
ARCH	ARCHITECTURAL	MH	MANHOLE
BS	BOTTOM OF STEP	ML	MONUMENT LINE
BW	BACK OF WALK ELEVATION	(N)	NEW
BOW	BOTTOM OF WALL ELEVATIONS	PAV	PAVEMENT SURFACE ELEVATION
CB	CATCH BASIN	℄	PROPERTY LINE
CI	CAST IRON	PP	PERFORATED PIPE
℄	CENTER LINE	RIM	RIM ELEVATION
CLF	CHAIN LINK FENCE	RS	TOP OF RAT SLAB ELEVATION
C&G	CURB AND GUTTER	RWL	RAIN WATER LEADER
CONC	CONCRETE	S=	SLOPE
C	CONCRETE ELEVATION	SD	STORM DRAIN
DWY	DRIVEWAY	S.A.D.	SEE ARCHITECT DRAWINGS
E	ELECTRICAL	S.E.D.	SEE ELECTRICAL DRAWINGS
(E)	EXISTING	S.L.D.	SEE LANDSCAPE DRAWINGS
EBOX	ELECTRICAL BOX	S.P.D.	SEE PLUMBING DRAWINGS
EC	EDGE OF CONCRETE	SG	SUBGRADE ELEVATION
EP	EDGE OF PAVEMENT	SS	SANITARY SEWER
EV	ELECTRICAL VAULT	SSCO	SANITARY SEWER CLEANOUT
F	FIRE LINE	S/W	SIDEWALK
FG	FINISH GRADE	STLT	STREET LIGHT
FNC	FENCE	T	TELEPHONE
FH	FIRE HYDRANT	TC	TOP OF CURB
FF	FINISHED FLOOR ELEVATION	TD	TRENCH DRAIN
FL	FLOW LINE	TILE	TOP OF TILE ELEVATION
FOC	FACE OF CURB	TOE	TOE OF BANK
G	GAS	TOW	TOP OF WALL ELEVATION
GB	GRADE BREAK	TP	TELEPHONE POLE
GND	GROUND ELEVATION	TR	TOP OF RAMP
JP	JOINT POLE	TS	TOP OF STEP
ICV	IRRIGATION CONTROL VALVE	TSB	TRAFFIC SIGNAL BOX
INV	INVERT	VLT	VAULT
LF	LINEAR FEET	W	WATER
LS	LANDSCAPE	WV	WATER VALVE

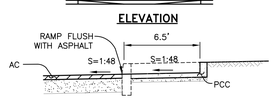
NOTES:

1. ALL SLOPED SURFACES SHALL BE ROUGH BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.
2. SLOPES WITHIN VEHICLE PULL-UP SPACE SHALL NOT EXCEED 1:48. (11B-503.4)

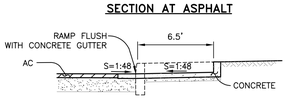


PLAN

ELEVATION



SECTION AT ASPHALT

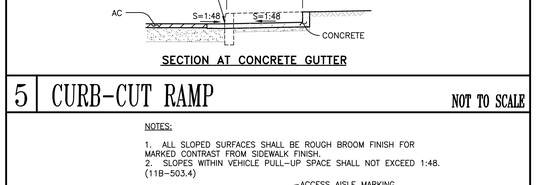


SECTION AT CONCRETE GUTTER

5 CURB-CUT RAMP — NOT TO SCALE

NOTES:

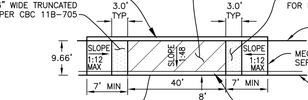
1. ALL SLOPED SURFACES SHALL BE ROUGH BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.
2. SLOPES WITHIN VEHICLE PULL-UP SPACE SHALL NOT EXCEED 1:48. (11B-503.4)



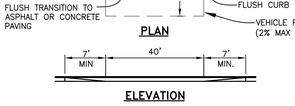
PLAN



ELEVATION



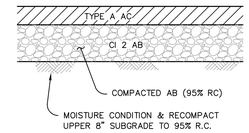
SECTION AT ASPHALT



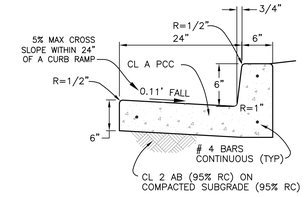
SECTION AT CONCRETE GUTTER

6 ACCESSIBLE PASSENGER DROP-OFF — NOT TO SCALE

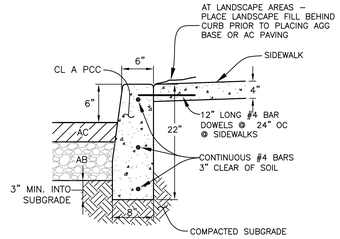
SECTION	TYPE A AC	CL 2 BASE	TOTAL SECTION
1 CAR TRAFFIC	3.0"	10.0"	13.0"
1A PEDESTRIAN	3.0"	8.0"	11.0"



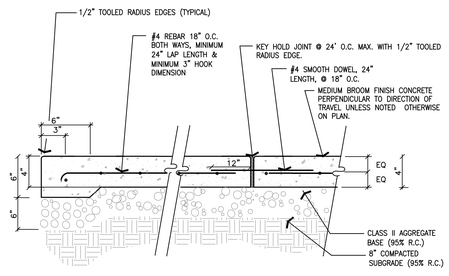
1 1A AC PAVEMENT SECTION — NOT TO SCALE



2 CURB AND GUTTER — NOT TO SCALE



3 VERTICAL CURB — NOT TO SCALE



NOTES:

1. REFER TO SPECIFICATION SECTION 32 13 13 CONCRETE PAVING
2. SCORE JOINTS SHALL BE PLACED A MAXIMUM OF 8' O.C. REFER TO PLAN FOR EXACT LOCATIONS.
3. SCORE JOINTS TO BE 1/8" WIDE MAXIMUM, 1/2" RADIUS BOTH SIDES, 1/2" DEEP SCORE.
4. ADJACENT GRADE TO BE 1-1/2" BELOW CONCRETE IN PLANTING AND 1" BELOW CONCRETE IN SODDED TURF AND 1/2" BELOW CONCRETE IN SEEDED TURF.
5. USE 1 PINT OF LAMP BLACK PER YARD OF CONCRETE
6. USE JOINT FILLER ON THE EXP. JOINTS SELF LEVELING BASF SONOLASTIC ELASTOMERIC POLYURETHANE JOINT SEALANT IN ACCORDANCE WITH FEDERAL SPECIFICATION TT-S-0227E, TYPE I, CLASS A-SONNEBORN SL-2
7. CONCRETE SHALL HAVE 2.0% MAXIMUM CROSS SLOPE & 5.0% MAXIMUM SLOPE IN DIRECTION OF TRAVEL.
8. ASTM A 615, GRADE 60, DEFORMED, EXCEPT #3 AND SMALLER MAY BE GRADE 40. TEST IN ACCORDANCE WITH SECTION 1903A AND 1910A.2, 2022 C.B.C.
9. CONTRACTOR SHALL INSTALL COLORED CONCRETE IN AREAS SHOWN IN SHEET 2-C2.1 GRADING & DRAINAGE PLAN. CONCRETE COLOR SHALL BE INTEGRAL COLOR TO MATCH ADJACENT CONCRETE PAVING TO REMAIN.

4 4A CONCRETE PAVING

AGENCY APPROVAL DSA# 01-121440

196

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CARROLL ENGINEERING
engineers and surveyors
1101 S. WINCHESTER BLVD. SUITE H-154
SAN JOSE, CA 95128
TEL: 408-261-9900
FAX: 408-261-0595
E-MAIL: Robert@carroll-engineering.com

CONSULTANTS

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MARTUS
No. C 68770
Exp. 12/31/25
STATE OF CALIFORNIA

REVISIONS

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PROJECT OWNER & TITLE

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Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

NOTES, LEGEND & DETAILS

INC.2

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.

2-C4.1

DATE: SEPTEMBER 19, 2024

CONSTRUCTION DOCUMENTS

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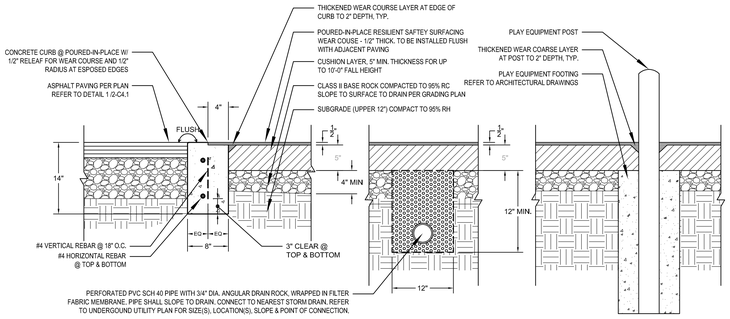
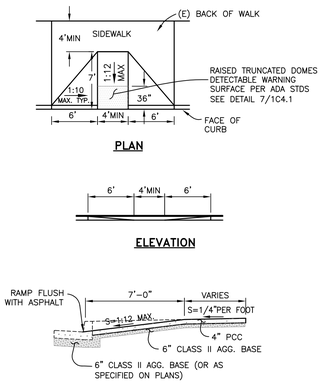
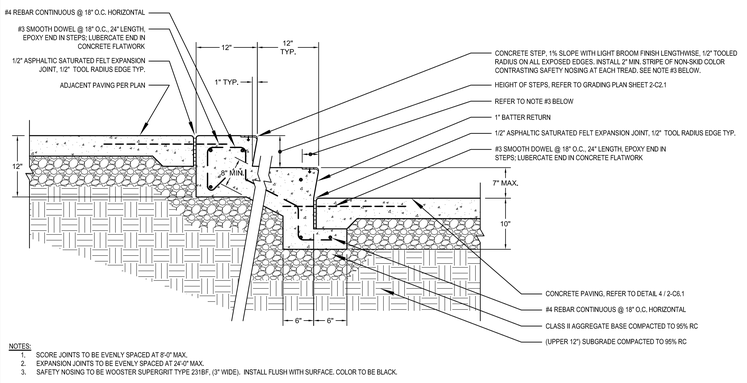


NOTES:
1. REFER TO ARCHITECTURAL PLANS FOR POURED-IN-PLACE RESILENT SAFETY SURFACING, MANUFACTURE, COLORS AND PATTERNS.
2. SCORE JOINTS IN CONCRETE PERIMETER CURB TO BE EVENLY SPACED AT 8'-0" MAX. WITH 1/2" SATURATED ASPHALTIC EXPANSION JOINTS EVENLY SPACED AT 24'-0" MAX.
3. REFER TO SPECIFICATION SECTION 32 13 13 CONCRETE WORK.

12 CONCRETE CURB @ POURED-IN-PLACE — NOT TO SCALE

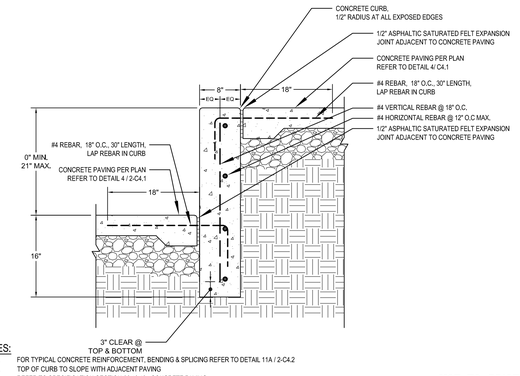


10 CURB-CUT RAMP — NOT TO SCALE



NOTES:
1. SCORE JOINTS TO BE EVENLY SPACED AT 8'-0" MAX.
2. EXPANSION JOINTS TO BE EVENLY SPACED AT 24'-0" MAX.
3. SAFETY NOSING TO BE WOOSTER SUPERGRIT TYPE 231BF, (3" WIDE). INSTALL FLUSH WITH SURFACE. COLOR TO BE BLACK.

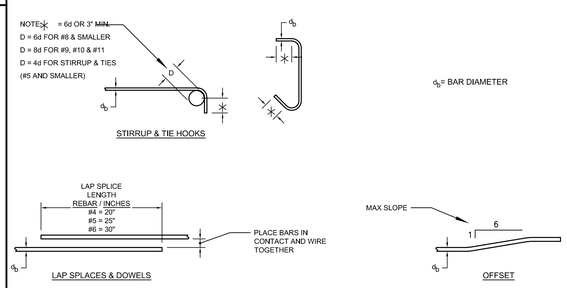
13 CONCRETE STEPS — NOT TO SCALE



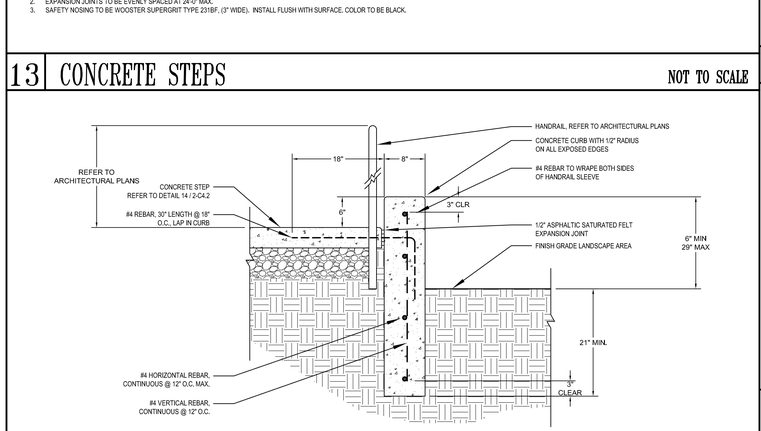
NOTES:
1. FOR TYPICAL CONCRETE REINFORCEMENT, BENDING & SPLICING REFER TO DETAIL 11A / 2-C4.2
2. TOP OF CURB TO SLOPE WITH ADJACENT PAVING
3. REFER TO SPECIFICATION SECTION 32 13 13 - CONCRETE PAVING

NOT TO SCALE

11 CONCRETE CURB - TYPE I

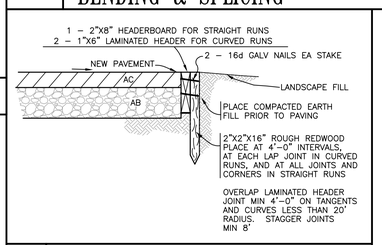


11A TYPICAL CONCRETE REINFORCEMENT BENDING & SPLICING — NOT TO SCALE

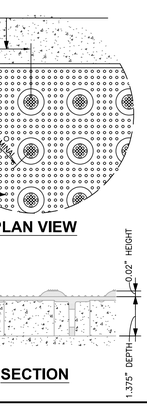


NOTES:
1. CONCRETE CURB TO RECEIVE SACK FINISH.
2. INSTALL VERTICAL SCORE JOINTS 10'-0" O.C. MAX. WITH 1/2" RADIUS EDGES.
3. INSTALL VERTICAL ASPHALTIC SATURATED EXPANSION JOINTS EVENLY SPACED @ 20'-0" O.C. MAX. PROVIDE 1/2" RADIUS EDGES AT EXPANSION JOINTS.

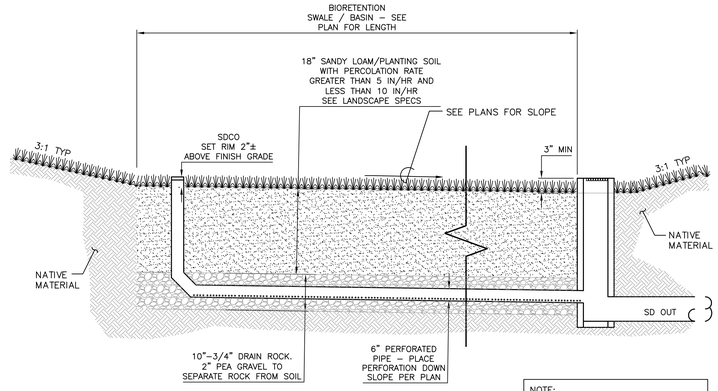
14 EDGE OF STEP - CURB — NOT TO SCALE



15 HEADER BOARD — NOT TO SCALE

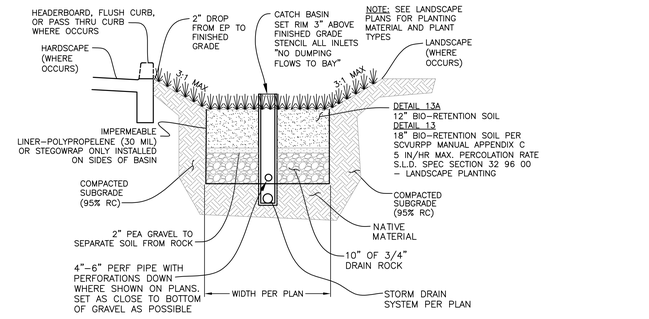


7 TRUNCATED DOME — NOT TO SCALE

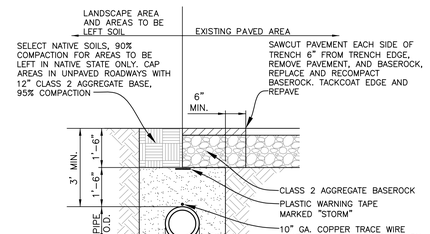


PROFILE

NOTE:
REFER TO LANDSCAPE SPECIFICATION SECTION 32 96 00 - LANDSCAPE PLANTING FOR IMPORTED SOIL IN BIO-RETENTION BASINS



8 BIO-RETENTION SWALE / BASIN — NOT TO SCALE



9 UTILITY TRENCH

AGENCY APPROVAL DSA# 01-121440

196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CARROLL ENGINEERING engineers and surveyors
1101 S. WINCHESTER BLVD. SUITE H-184
SAN JOSE, CA. 95128
TEL 408-261-9900
FAX: 408-261-0595
E-MAIL: Robert@carroll-engineering.com

CONSULTANTS

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER MATTHEW PAUL MARKS No. C 68770 Exp. 12/31/25 STATE OF CALIFORNIA

REVISIONS

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1936 Carlotta Dr. Concord
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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

DETAILS

INC.2

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.

2-C4.2

DATE: SEPTEMBER 19, 2024

CONSTRUCTION DOCUMENTS

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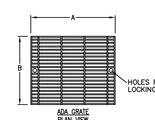
GRATE & FRAME TO BE H-20 TRAFFIC RATED. SD-13

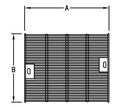


ADA GRATE
PLAN VIEW

NOTES:
1. FOR FRAME SIZES SEE "TYPICAL FRAME AND GRATE" PAGE.
2. ½" MAXIMUM SPACING BETWEEN BEARING BARS.

AMERICAN DISABILITIES ACT (ADA), WHEEL CHAIR PROOF PEDESTRIAN GRATES						
	GRATE SIZE			GRATE HEIGHT	WEIGHT (LBS)	BEARING BAR QTY.
	SIZE	A	B			
	12x12	14 5/8"	11 7/8"	1 1/4"	20	18
	18x18	20 5/8"	18"	1"	32	26
	18x24	20 5/8"	24"	1 1/4"	54	35
	24x24	26 3/4"	24"	1 1/4"	68	35
	24x30	26 3/4"	30"	1 1/4"	87	44
2 PC.	24x36	26 1/2"	36"	1 1/4"	106	53
2 PC.	24x48	26 5/8"	48"	1 1/4"	133	72

AMERICAN DISABILITIES ACT (ADA), WHEEL CHAIR PROOF TRAFFIC GRATES					
GRATE SIZE			GRATE HEIGHT	WEIGHT (LBS)	BEARING BAR QTY.
SIZE	A	B			
12x12	14 5/8"	11 7/8"	1 1/4"	20	18
18x18	20 5/8"	18"	2 1/4"	72	26
18x24	20 5/8"	24"	2 1/4"	87	35
24x24	26 3/4"	24"	2 1/4"	122	35
24x30	26 3/4"	30"	2 1/4"	156	44
24x36	26 1/2"	36"	2 1/4"	191	53
24x48	26 5/8"	48"	2 1/4"	236	72



HEEL GRATE
PLAN VIEW

NOTES:
1. FOR FRAME SIZES SEE "TYPICAL FRAME AND GRATE" PAGE.
2. ¾" MAXIMUM SPACING BETWEEN BEARING BARS.
3. TRAFFIC RATED HEEL PROOF GRATES ARE AVAILABLE UPON REQUEST.

HEEL PROOF PEDESTRIAN GRATES					
GRATE SIZE			GRATE HEIGHT	WEIGHT (LBS)	BEARING BAR QTY.
SIZE	A	B			
12x12	14 5/8"	11 7/8"	1 1/4"	27	27
18x18	20 5/8"	18"	1"	33	42
24x24	26 3/4"	24"	1 1/4"	101	55

NOTES:
1. GRATES ARE HOT-DIPPED GALVANIZED AFTER FABRICATION.
2. ADDITIONAL SIZES AVAILABLE UPON REQUEST
3. LOCKING BOLTS INCLUDED

DRAWING MAY NOT CONFORM TO THE MOST CURRENT SPECIFICATION

Oldcastle Precast®
Northern California
Madera ▲ Morgan Hill ▲ Pleasanton ▲ Santa Rosa ▲ Stockton ▲ Tulare
Phone: 925-750-6650 Fax: 925-750-6660

ADA & HEEL GRATES
FILE NAME: SD-13.DWG
REVISED: MARCH 2016
www.oldcastleprecast.com

TYPICAL GRATES
DRAINAGE INLET
STORM DRAIN

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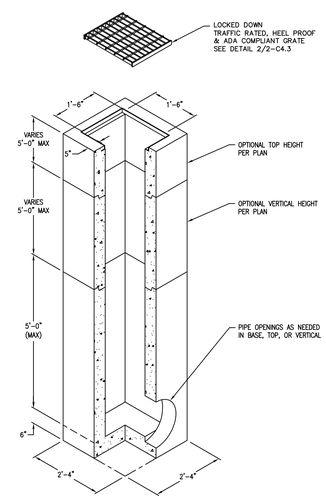
2 INLET GRATES NOT TO SCALE

VERTICAL AVAILABLE TO MEET REQUIRED DEPTH SD-2



VERTICAL WEIGHT PER FOOT: 490 LBS.
FLOOR WEIGHT: 420 LBS.

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DI-1818
FILE NAME: SD-2.DWG
REVISED: MARCH 2016
www.oldcastleprecast.com

1'-6" X 1'-6" X VARIES (I.D.)
DRAINAGE INLET
STORM DRAIN

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1 STORM INLET NOT TO SCALE

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
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CONSULTANTS

PROFESSIONAL STAMP



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SHEET TITLE
UNDERGROUND DETAILS

ING.2

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.
2-C4.3
DATE: SEPTEMBER 19, 2024

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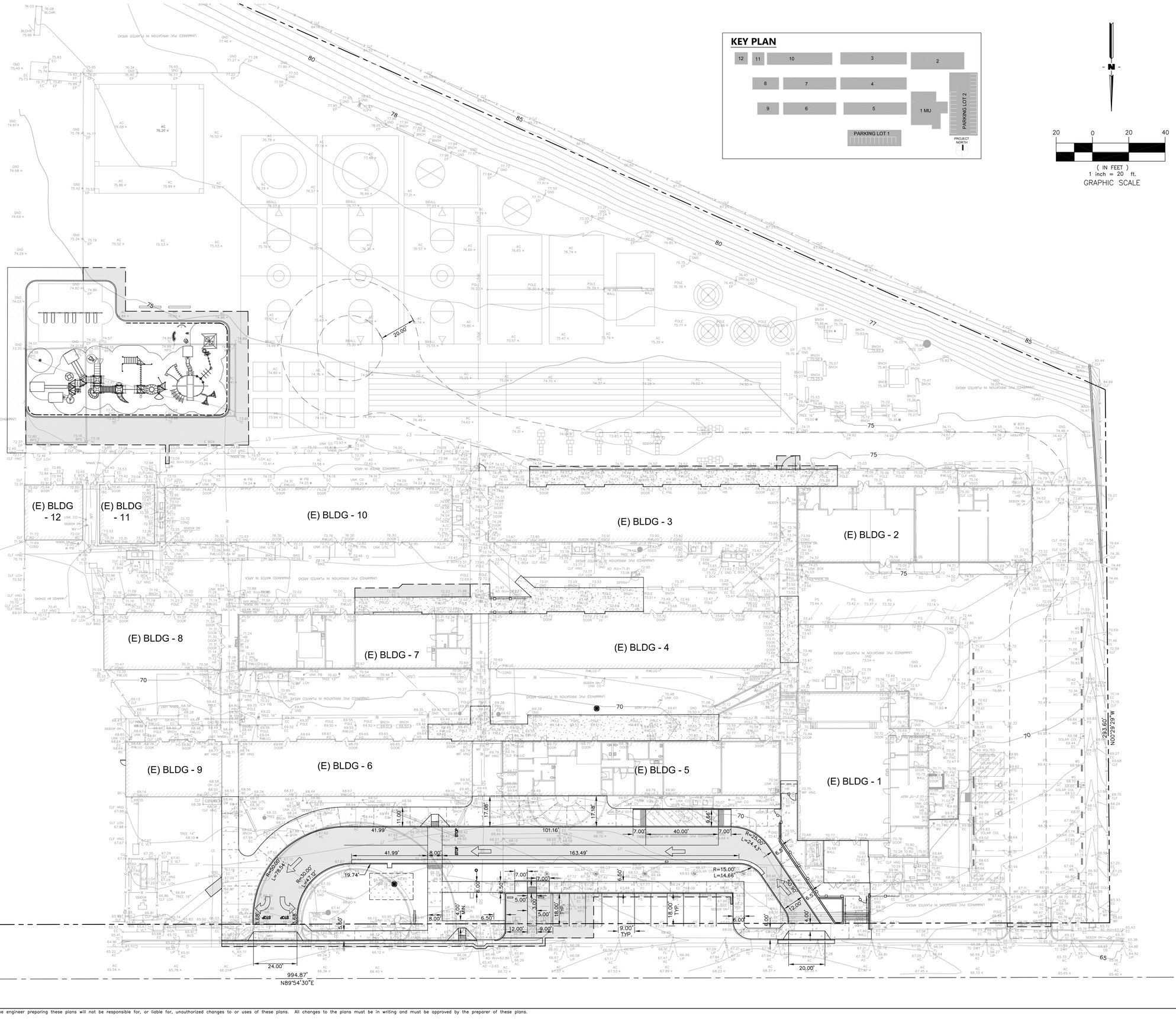

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CARROLL ENGINEERING engineers and surveyors
1101 S. WINCHESTER BLVD.
SUITE H-154
SAN JOSE, CA 95128
TEL: 408-241-9900
FAX: 408-241-2995
E-MAIL: Robert@carroll-engineering.com

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL HARRIS
No. C 68770
Exp. 12/31/25
CIVIL
STATE OF CALIFORNIA

REVISIONS

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

HORIZONTAL CONTROL PLAN

INC.2

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.

2-C5.1

DATE: SEPTEMBER 19, 2024

CONSTRUCTION DOCUMENTS

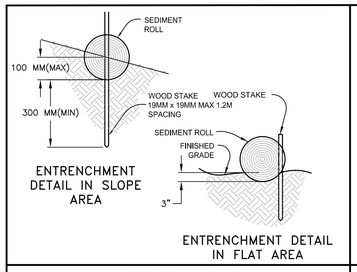
EROSION CONTROL NOTES:

1.) EROSION CONTROL FACILITIES SHALL BE MAINTAINED IN GOOD CONDITION TO PREVENT SILTATION FROM ENTERING INLETS.

2.) DUST GENERATED ON THE PROJECT SITE SHALL BE CONTROLLED BY SELECTIVE WATERING OF EXPOSED AREAS, ESPECIALLY DURING CLEARING AND GRADING OPERATIONS.

3.) PAVING SHALL BE COMPLETED AS SOON AS IS PRACTICABLE TO REDUCE THE TIME THAT BARE SURFACES AND SOILS ARE EXPOSED IN AREAS WHERE CONSTRUCTION IS DELAYED FOR AN EXTENDED PERIOD OF TIME, THE GROUND SHALL BE REVEGETATED TO MINIMIZE THE GENERATION OF DUST.

4.) STREET SWEEPING SHALL BE CONDUCTED TO CONTROL DUST AND DIRT TRACKED FROM THE PROJECT SITE ONTO ADJACENT STREETS.



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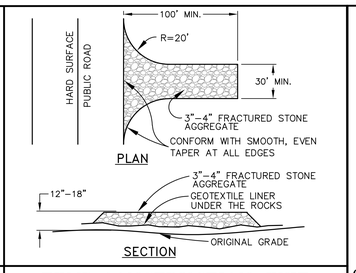

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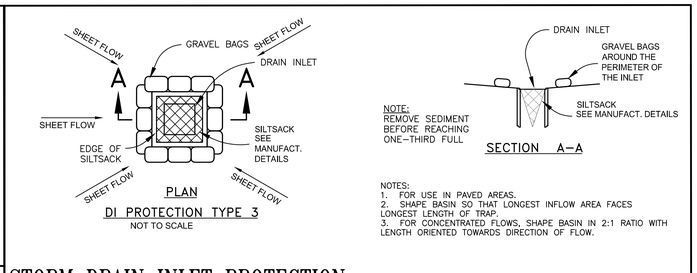
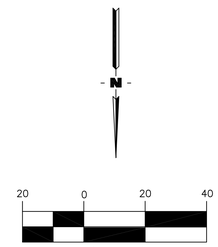
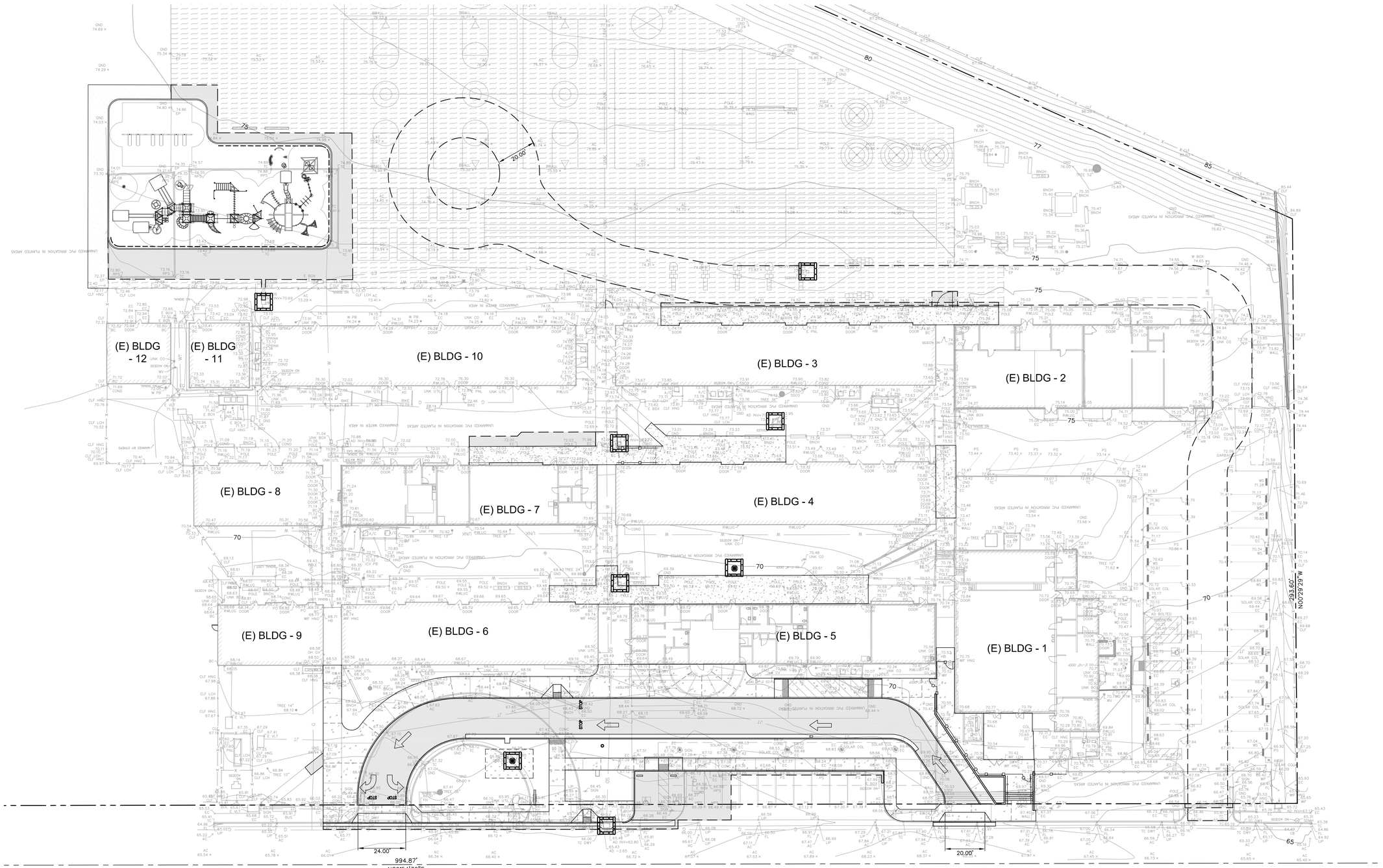


STORM DRAIN INLET PROTECTION - TYPE 3





AGENCY APPROVAL DSA# 01-121440

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CARROLL ENGINEERING engineers and surveyors
1101 S. WINCHESTER BLVD. SUITE H-154
SAN JOSE, CA 95128
TEL 408-241-9900
FAX 408-241-0995
E-MAIL: Robert@carroll-engineering.com

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
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YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
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(530) 885 0040

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No. C 68770
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SHEET TITLE

EROSION CONTROL PLAN

INC.2

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.

2-C6.1

DATE: SEPTEMBER 19, 2024

CONSTRUCTION DOCUMENTS

Construction Contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting liability arising from the sole negligence of design professional.

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

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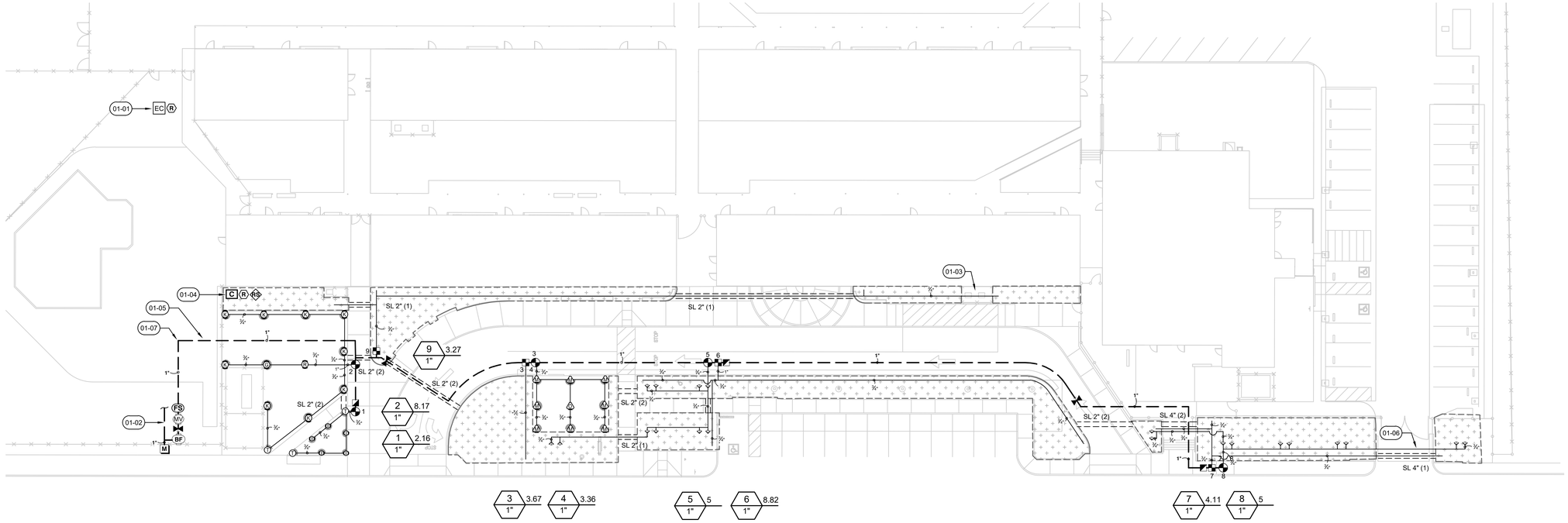

SITE PLAN

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
T	Hunter MP Corner PROS-06-PRS40-CV Turf Rotator, 6in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. T=Turquoise adj arc 45-105.	40
K G B	Hunter MP2000 PROS-06-PRS40-CV Turf Rotator, 6in. pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	40
800 A 800 F	Hunter MP800SR PROS-06-PRS40-CV Turf Rotator, 6in. pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. ADJ=Orange and Gray (arc 90-210), 360=Lime Green and Gray (arc 360)	40
M A A	Hunter MP1000 PROS-12-PRS40-CV Shrub Rotator, 12in. pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=LIght Blue 210 to 270 arc, O=Olive 360 arc on PRS40 body.	40
25 50 10 20	Hunter PCB Flood Bubbler, 1/2in. FIPT.	20

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICZ-101-25 Drip Control Zone Kit. 1in. ICV Globe Valve with 1in. HY100 filter system. Pressure Regulation: 25psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen.
	Area to Receive Drip Emitters Hunter HEB 1/2in. Female Threaded Point Source Drip Emitter. Color coded emitters for flow rates of 0.5 GPH - 6.0 GPH. Recommended Pressure from 20 psi-50 psi. Optional diffuser cap (HE) available for higher flows and clog protection. On IH-12 Riser Emitter Notes: 10 emitters (2 assigned to each 1 gal plant) 10 emitters (2 assigned to each 5 gal plant)

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G 1in., 1-1/2in., 2in., and 3in. Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113-K Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter at valve location. Size Range - 1/4in. - 3in.
MV	Hunter ICV-G 1" 1in., 1-1/2in., 2in., and 3in. Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BF	Backflow Preventer 1" Reduced Pressure Backflow Preventer, see civil plans for installation.

C	Rain Bird ESPLXME2P-LXMMSS 12 Station, Traditionally-Wired, PRO Smart (Module Included), Commercial Controller. Indoor/Outdoor, Plastic Wall-Mount Enclosure. Install in LXMMSS Stainless Steel, Wall-Mounted Cabinet.
R	Rain Bird IQ-SS-RADIO Radio Modem provides IQ Net wireless radio communication b/n Server and Client satellite controllers. Can be used with the RS232 Cartridge for IQ Central Computer. Includes power supply. Antenna specified separately based on radio site survey. CONTACT LOCAL RAIN BIRD REP.
RS	Rain Bird RSD-BEx Rain Sensor, with metal latching bracket, extension wire.
FS	Creative Sensor Technology FSI-T10-001 1in. PVC tee type flow sensor w/socket ends, custom mounting tee and ultra-lightweight impeller enhances low flow measurement. 2 wire digital output compatible w/all irrigation controllers. Flow range: .86 GPM - 52 GPM.
M	Water Meter 3" See Civil plans for connection.
	Irrigation Lateral Line: PVC Schedule 40
	Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: PVC Schedule 40

Valve Callout
Valve Number
Valve Flow
Valve Size

NOTES

1. WATER PRESSURE WAS UNKNOWN AT TIME OF DESIGN. A DESIGN PRESSURE 65 PSI WITH A FLOW RATE OF 9 GALLONS PER MINUTE WAS USED AS A BASELINE FOR DESIGN PURPOSES. LANDSCAPE CONTRACTOR SHALL TEST AND VERIFY PRESSURE AND FLOW PRIOR TO STARTING JOB AND NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF WATER AND PRESSURE FLOWS DO NOT MEET THE REQUIREMENTS FOR A SYSTEM REDESIGN AND OR BOOSTER PUMP SPECIFICATION.
2. IRRIGATION PLAN IS DIAGRAMMATIC; INSTALL IRRIGATION VALVES AND PIPE IN PLANTERS WHENEVER POSSIBLE.
3. IRRIGATION CONTROLLER: CONTRACTOR TO CONNECT NEW CONTROLLER TO DISTRICT CENTRAL CONTROL. PROVIDE 1 RB-SS-TN9B SPREAD SPECTRUM RADIO AND 1 GSP-TRA9023NP ANTENNA TO EACH CONTROLLER, AND ADD 1 IQNCCRS RADIO CARTRIDGE TO TO NEW AND IRRIGATION CONTROLLER.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI	FRICTION LOSS	VALVE LOSS	PSI	PSI @ POC	PRECIP
1	Hunter ICV-G	1"	Turf Rotary	2.16	40	0.05	2.15	42.2	57.4	0.69 in/h
2	Hunter ICV-G	1"	Turf Rotary	8.17	40	0.34	2.82	43.2	61.8	0.36 in/h
3	Hunter ICZ-101-25	1"	Area for Drip Emitters	3.67	15	0.59	4.12	19.7	35.8	0.26 in/h
4	Hunter ICV-G	1"	Shrub Rotary	3.36	40	0.21	2.3	42.5	58.4	0.43 in/h
5	Hunter ICV-G	1"	Bubbler	6	20	0.77	2.6	23.4	42.1	1.98 in/h
6	Hunter ICZ-101-25	1"	Area for Drip Emitters	8.82	15	2.74	7.29	25.0	47.8	0.35 in/h
7	Hunter ICZ-101-25	1"	Area for Drip Emitters	4.11	15	0.25	4.41	19.7	37.8	0.27 in/h
8	Hunter ICV-G	1"	Bubbler	5	20	0.65	2.5	23.2	42.7	2.01 in/h
9	Hunter ICZ-101-25	1"	Area for Drip Emitters	3.27	15	0.33	3.85	19.2	34.8	0.15 in/h

CRITICAL ANALYSIS

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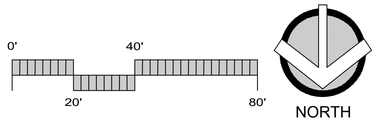
P.O.C. NUMBER: 01	
Water Source Information:	See Civil plans for connection.
FLOW AVAILABLE	
Water Meter Size:	3"
Flow Available	220.07 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	65 PSI
Elevation Change:	5.00 ft
Service Line Size:	3"
Length of Service Line:	20 ft
Pressure Available:	62 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	8.82 GPM
Flow Available at POC:	220.07 GPM
Residual Flow Available:	211.25 GPM
Critical Station:	2
Design Pressure:	40 PSI
Friction Loss:	0.31 PSI
Fittings Loss:	0.03 PSI
Elevation Loss:	0 PSI
Loss through Valve:	2.82 PSI
Pressure Req. at Critical Station:	43.2 PSI
Loss for Fittings:	0.24 PSI
Loss for Main Line:	2.41 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	12.2 PSI
Loss for Master Valve:	2.82 PSI
Loss for Water Meter:	1 PSI
Critical Station Pressure at POC:	61.8 PSI
Pressure Available:	62 PSI
Residual Pressure Available:	0.19 PSI

SHEET NOTES

CODE	DESCRIPTION
01-01	Existing irrigation controller controller to remain, add antennae and radio, see new controller specification for more information.
01-02	Existing domestic service to remain.
01-03	Contractor to trench if possible for laterals, if not feasible, bore under existing utilities.
01-04	See Architectural plans for power.
01-05	Contractor to cut asphalt with straight clean lines and patch back to pre-existing condition.
01-06	Contractor to cut asphalt in clean straight line, install new irrigation lines as shown, patch back to pre-existing condition.
01-07	Install traffic rated pullbox at change of direction for irrigation control wires.



SLEEVING SCHEDULE

PIPE SIZE OR # OF WIRES	REQUIRED SLEEVE SIZE
3/4", 1"	1-2" SLEEVE
1-1/4", 1-1/2", 2", 2-1/2"	1-4" SLEEVE
3", 4"	1-6" SLEEVE
6"	1-12" SLEEVE
1-25 CONTROL WIRES	1-2" SLEEVE
26-50 CONTROL WIRES	2-2" SLEEVES

1. ALL SLEEVES SHALL BE SCH 40 PVC.
2. ALL PIPE AND CONTROL WIRES SHALL BE INSTALLED IN SEPARATE SLEEVES UNDER PAVED AREAS, SIZE AS INDICATED ABOVE.
3. SLEEVES SHALL EXTEND AT LEAST 12" BEYOND THE EDGE OF THE PAVEMENT.

PIPE SIZING SCHEDULE

PVC TYPE	SCH 40	CLASS 315	CLASS 200
PIPE SIZE	MAX. GPM	MAX. GPM	MAX. GPM
3/4"	8	-	-
1"	13	-	-
1-1/4"	22	-	-
1-1/2"	30	-	-
2"	50	-	-
2-1/2"	-	73	-
3"	-	109	-
4"	-	-	200
6"	-	-	425

1. ALL MAINLINE PIPE SHALL BE MINIMUM 1".
2. ALL LATERAL LINE PIPE SHALL BE MINIMUM 3/4".
3. ALL PIPE 2" AND SMALLER SHALL BE SCH 40 PVC.
4. ALL PIPE 2-1/2" TO 3" SHALL BE GASKETED CLASS 315 PVC WITH MECHANICAL JOINT RESTRAINTS.
5. ALL PIPE 4" AND GREATER SHALL BE GASKETED CLASS 200 PVC WITH MECHANICAL JOINT RESTRAINTS AND DUCTILE IRON FITTINGS.

THE PROJECT COMPLIES WITH THE CRITERIA OF THE CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE. THE GUIDELINES HAVE BEEN APPLIED FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION PLAN"

09/17/24
SIGNATURE DATE

AGENCY APPROVAL DSA# 01-121440

196

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

YAMASAKI
LANDSCAPE ARCHITECTURE
1223 HIGH STREET AUBURN CALIFORNIA 95603 530 885-0040

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
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Monterey, CA 93940
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YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

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611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

IRRIGATION PLAN

INC.2

DRAWN BY: BJP JOB NUMBER: 23118.01

SHEET NO.

L1.1

DATE: AUGUST 28, 2024

CONSTRUCTION DOCUMENT

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

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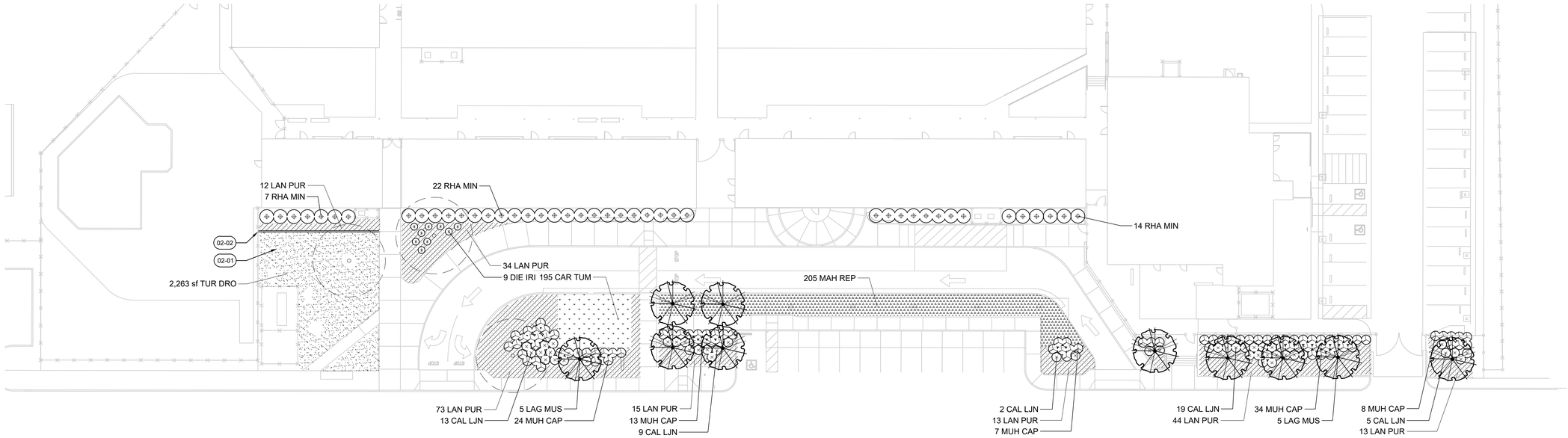

SITE PLAN

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	WATER USE	SPACING
TREES						
	LAG MUS	10	Lagerstroemia indica x fauriei 'Muskogee' / Muskogee Crape Myrtle	15 gal	LOW	
SHRUBS						
	CAL LJN	48	Callistemon viminalis 'Little John' / Little John Weeping Bottlebrush	5 gal	LOW	48" o.c.
	DIE IRI	9	Dietes iridioides / Fortnight Lily	5 gal	LOW	36" o.c.
	MUH CAP	86	Muhlenbergia capillaris / Pink Muhly Grass	5 gal	LOW	48" o.c.
	RHA MIN	43	Rhaphiolepis umbellata `Minor` / Dwarf Yedda Hawthorn	5 gal	LOW	72" o.c.
GROUND COVERS						
	CAR TUM	195	Carex tumulicola / Foothill Sedge	1 gal	MED	24" o.c.
	LAN PUR	204	Lantana montevidensis / Purple Trailing Lantana	1 gal	LOW	48" o.c.
	MAH REP	205	Mahonia repens / Creeping Mahonia	1 gal	LOW	36" o.c.
	TUR DRO	2,262 sf	Turf Seed Drought Tolerant Dwarf Fescue Blend	seed	HIGH	

SHEET NOTES

CODE	DESCRIPTION
02-01	Existing turf to remain and be overseeded.
02-02	Concrete mowstrip, see detail "F", sheet L3.2.

0' 40' 20' 80'

NORTH

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SAN JOSE, CA 95126
TEL (408) 715-4470

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1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

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JEFFREY M. AMBROSIA
9/24
09/25/24
RENEWAL
OF STATE OF CALIFORNIA

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PLANTING PLAN

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DRAWN BY: BJP JOB NUMBER: 23118.01

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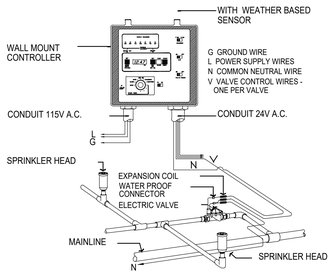

CONTROLLER INSTALLATION (A)

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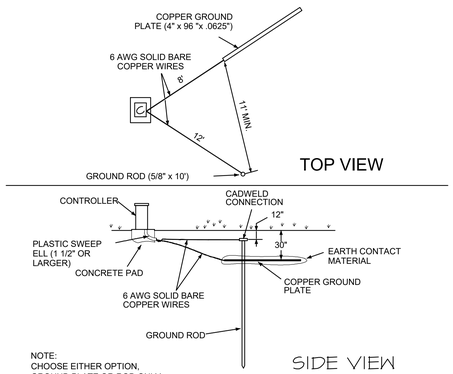
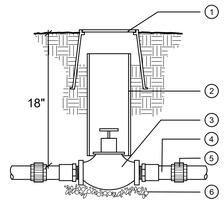


CONTROLLER GROUND (B)

CONTLR-GRD SCALE: N.T.S.

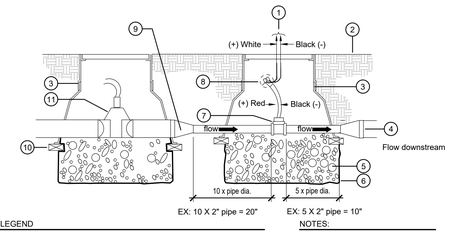
LEGEND

1. 9" VALVE BOX
2. 6" PVC SLEEVE
3. GATE VALVE
4. IRRIGATION MAINLINE
5. PVC UNION
6. PEAGRAVEL SUMP 6" MIN.



GATE VALVE (C)

VLV-GATE SCALE: N.T.S.



LEGEND

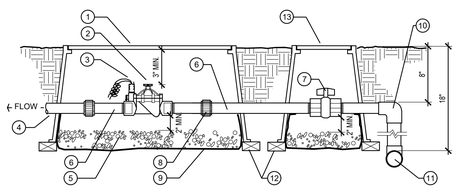
1. Sensor cable - Two #20 foil shield w/drain, black jacket, direct burial black, white. Allow 2' of extra cable.
2. Finished grade or surface.
3. Valve box with extensions as required.
4. Fitting or reducing coupling at distance equal to 5 x pipe diameter from flow sensor.
5. 3/4 " pea gravel sump, 6" deep.
6. Filter fabric.
7. Flow sensor body.
8. Waterproof connections " Note polarity on sensor to sensor cable hookup.
9. Fitting or reducing coupling at distance equal to 10 x pipe diameter from flow sensor.
10. Standard brick.
11. Master valve.

NOTES:

- Note: Flow Sensor must be installed with insert (top) positioned vertically and Body (tee) positioned horizontally.
- Note: Flow Sensor Cable must be run in 1" PVC conduit from flow sensor to controller enclosure.
- Note: Contractor to follow all Master Valve and Flow Sensor Companies' Details and Installation procedures for installation.

FLOW SENSOR/MASTER VALVE (D)

FLW-SENS-MST-VLV SCALE: N.T.S.



LEGEND

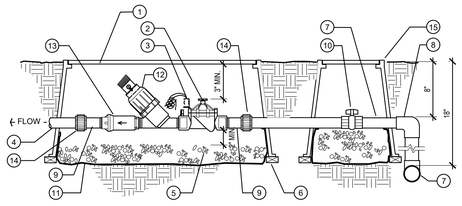
1. JUMBO RECTANGULAR VALVE BOX (15"x21")
2. REMOTE CONTROL VALVE
3. SOLENOID
4. PVC LATERAL
5. 6" PEA GRAVEL SUMP
6. PVC SCH 80 TOE NIPPLE, TYP.
7. PVC BALL VALVE
8. SCH. 80 PVC UNION, TYP.
9. FILTER FABRIC
10. SCH. 80 ST ELL
11. PVC MAIN LINE
12. STANDARD BRICK (3 ⅜"x2 ¼"x8")
13. 10" ROUND VALVE BOX

NOTES:

- USE TEFLON TAPE ON ALL THREADED MANIFOLD COMPONENTS
- USE A PVC BALL VALVE WITH EVERY VALVE OR MANIFOLD OF VALVES.
- LINE SUMP WITH FILTER FABRIC AND LEAVE EXPOSED ABOVE GRAVEL 2" MIN.

REMOTE CONTROL VALVE (E)

VLV-RMT-2 SCALE: N.T.S.



LEGEND

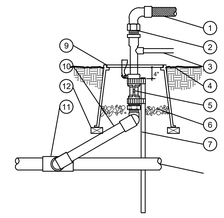
1. RECTANGULAR VALVE BOX
2. REMOTE CONTROL VALVE
3. SOLENOID
4. PVC LATERAL
5. 6" PEA GRAVEL SUMP
6. STANDARD BRICK (3 ⅜"x2 ¼"x8")
7. PVC MAINLINE
8. PVC ELL
9. SCH. 80 PVC TOE NIPPLE
10. PVC BALL VALVE
11. FILTER FABRIC
12. FILTER
13. PRESSURE REGULATOR
14. SCH. 80 PVC UNION, TYP.
15. 10" ROUND VALVE BOX

NOTES:

- ¾" - 1" VALVES, USE 15"X21" VALVE BOX
- 1 ½" VALVE, USE 17"X30" VALVE BOX
- USE TEFLON TAPE ON ALL THREADED MANIFOLD COMPONENTS
- USE A PVC BALL VALVE WITH EVERY VALVE
- LINE SUMP WITH FILTER FABRIC AND LEAVE EXPOSED OVER GRAVEL 2" MIN.

REMOTE CONTROL VALVE FOR DRIP (F)

VLV-PRVF-2 SCALE: N.T.S.

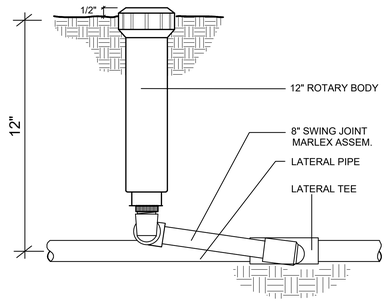


LEGEND

1. GARDEN HOSE
2. SWIVEL HOSE ELL
3. COUPLER
4. FINISHED GRADE
5. QUICK COUPLING VALVE
6. 6" MIN. PEA GRAVEL SUMP
7. #4 REBAR WITH HOSE CLAMPS
8. MAINLINE
9. 9" ROUND VALVE BOX
10. PVC SWING JOINT ASSEMBLY
11. TEE
12. STANDARD BRICK, 3 REQUIRED.

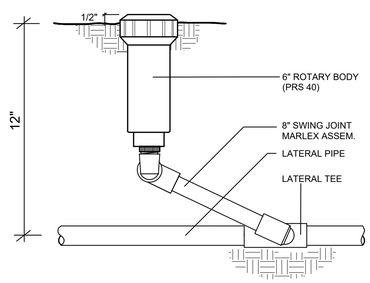
QUICK COUPLING VALVE (G)

VLV-QKCPL SCALE: N.T.S.



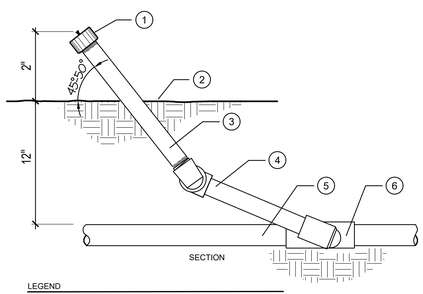
12" POP-UP ROTARY NOZZLE (H)

HDS-1.0 SCALE: N.T.S.



6" POP-UP ROTARY NOZZLE (I)

HDS-0.5 SCALE: N.T.S.

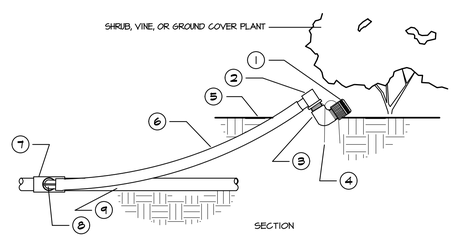


LEGEND

1. ADJUSTABLE FLOOD BUBBLER - INSTALLED AT AN ANGLE (45 DEGREES - 50 DEGREES)
2. FINISHED GRADE
3. SCH 80 RISER
4. 12" SWING JOINT MARLEX ASSEMBLY
5. LATERAL PIPE
6. LATERAL TEE

TREE BUBBLER (J)

BBLR-1 at angle SCALE: N.T.S.



LEGEND

1. 1/2" NIPT BUBBLER
2. SPIRAL BARB ELBOW
3. PVC STREET ELL
4. SECURE IN PLACE WITH 'U' LANDSCAPE STAPLE
5. FINISHED GRADE
6. FLEX TUBING, MUST DAYLIGHT AT PLANT RING - TYP.
7. LATERAL TEE OR ELL
8. SPIRAL BARB ELBOW
9. PVC LATERAL LINE

SHRUB BUBBLER (K)

BBLR-SHRB SCALE: N.T.S.

AGENCY APPROVAL DSA# 01-121440

196

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

YAMASAKI LANDSCAPE ARCHITECTURE
1223 HIGH STREET AUBURN CALIFORNIA 95603 530 885-0040

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

REGISTERED LANDSCAPE ARCHITECT ANTHONY M. AMBROSIA 4029 09/24 09/25/24 RENEWAL STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

IRRIGATION DETAILS

INC.2

DRAWN BY: BJP JOB NUMBER: 23118.01

SHEET NO.

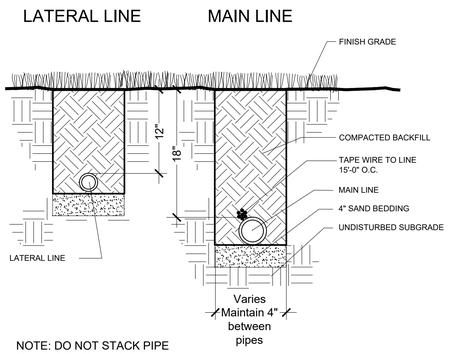
L3.1

DATE: AUGUST 28, 2024

CONSTRUCTION DOCUMENT

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

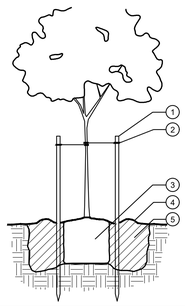
DATE PLOTTED: 9/24/2024 8:49:58 AM



NOTE: DO NOT STACK PIPE ON TOP OF OTHER PIPE.

IRRIGATION TRENCH (A)

TRNCH1 — SCALE: N.T.S.

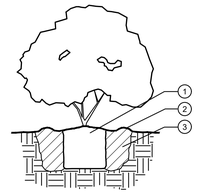


LEGEND
1. TREE STAKE
2. TREE TIE
3. ROOTBALL
4. SOIL RING
5. AMENDED BACKFILL

NOTES:
- WIDTH OF HOLE SHALL BE 3 TIMES THE WIDTH OF THE ROOTBALL
- DEPTH OF THE HOLE SHALL BE HEIGHT OF THE ROOTBALL WITH 1 1/2" OF TOP OF ROOTBALL HIGHER THAN SURROUNDING FINISH GRADE
- CUT TREE STAKES WITHIN 2" OF TIES
- WATER BACKFILL HEAVILY TO REDUCE AIR POCKETS
- REMOVE NURSERY STAKE PRIOR TO THE END OF THE MAINTENANCE PERIOD
- MAINTAIN A MINIMUM DISTANCE OF 18" BETWEEN EDGE OF LAWN AND TRUNK OF TREE(S)

TREE PLANTING AND STAKING (B)

PLT-TREE1 — SCALE: N.T.S.

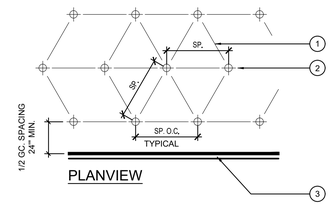


LEGEND
1. ROOTBALL
2. SOIL RING
3. AMENDED BACKFILL

NOTES:
- WIDTH OF HOLE SHALL BE 3 TIMES THE WIDTH OF THE ROOTBALL
- DEPTH OF THE HOLE SHALL BE DEPTH OF THE ROOTBALL WITH 1 1/2" OF TOP OF ROOTBALL HIGHER THAN SURROUNDING FINISH GRADE
- WATER BACKFILL HEAVILY TO REDUCE AIR POCKETS

SHRUB PLANTING (C)

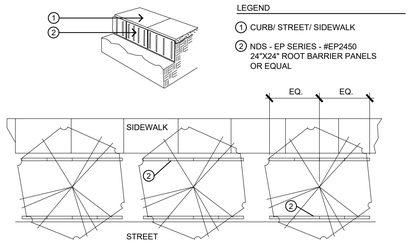
PLT-SHRB1 — SCALE: N.T.S.



LEGEND
1. GROUNDCOVER SPACING PER PLANT SCHEDULE.
2. GROUNDCOVER CENTERS.
3. WALL, WALK OR EDGE OF GROUNDCOVER PLANTING.

GROUNDCOVER PLANTING (D)

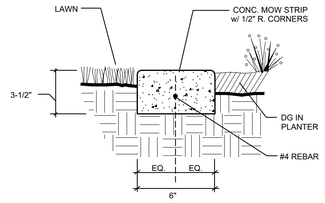
PLT-GRDCVR — SCALE: N.T.S.



NOTES:
- Install (4) 24" panels on each side of tree
- Center the panels on trunk of tree
- Root barriers are required in all locations where trees are placed closer than 48" from curbs, sidewalks, concrete or asphalt, and where shown on plans.
- Set top of root barrier 4" below top of walk or curb, or 2" below finished grade, whichever is lower.

TREE ROOT BARRIER (E)

PLT-BARR — SCALE: N.T.S.



NOTES
- PLACE 1/2" WIDE PRE-FORMED FIBER EXPANSION JOINTS AT 15' O.C.
- IF EXTRUDED USE FIBER MESH. IF POURED IN PLACE USE #4 REBAR CONTINUOUS IN MIDDLE OF MOW STRIP
- MOW STRIP SHALL BE FLUSH WITH ADJOINING WALK OR CURB
- CONCRETE TO BE CLASS A

CONCRETE MOW STRIP (F)

CONC MS — SCALE: N.T.S.

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

YAMASAKI LANDSCAPE ARCHITECTURE
1223 HIGH STREET AUBURN CALIFORNIA 95603 530 885-0040

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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TEL (415) 466-2997

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KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED LANDSCAPE ARCHITECT — JEFFREY M. AMBROSIA — 5854 — 12/24 — 09/25/24 — STATE OF CALIFORNIA

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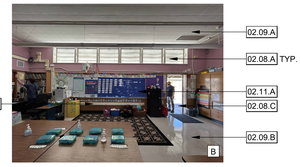
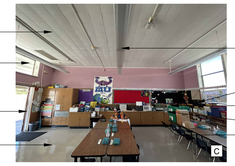
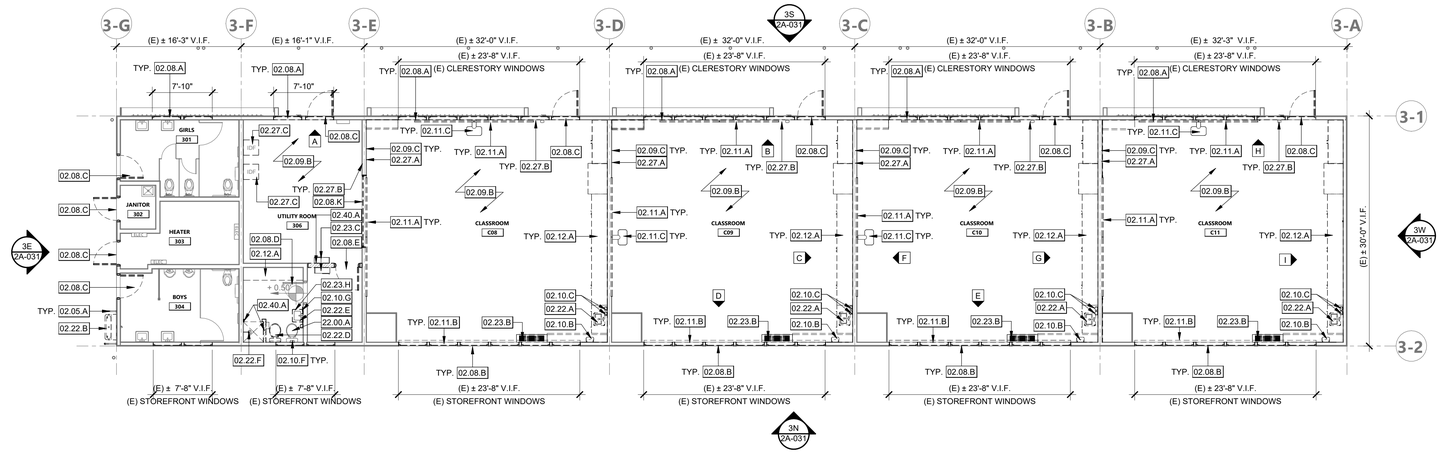
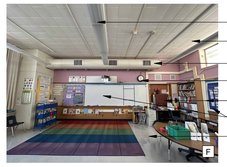


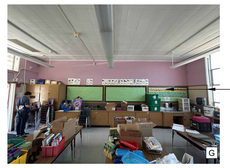




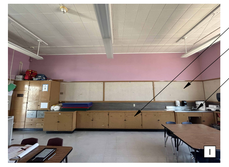






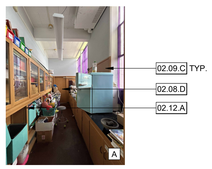




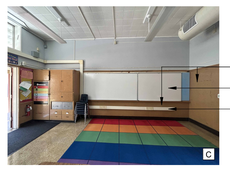


PROJECT NORTH

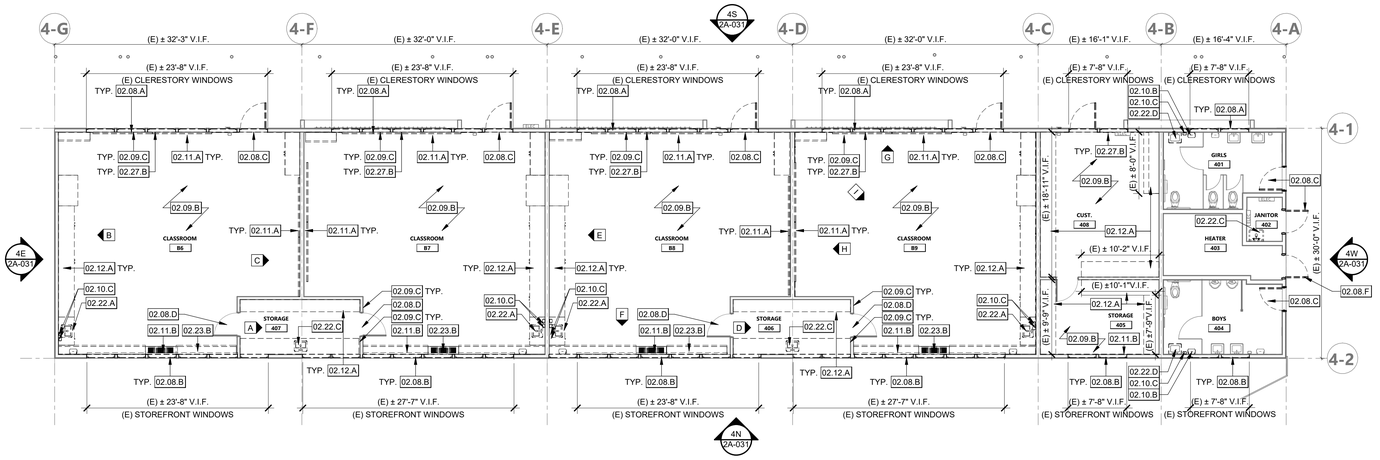
BUILDING 3 DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 1

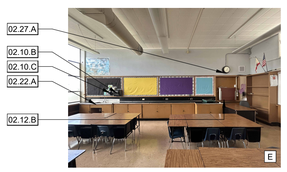


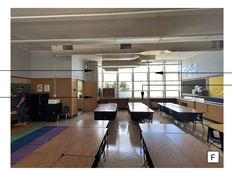


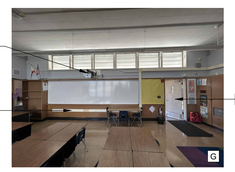
















PROJECT NORTH

BUILDING 4 DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 2

KEYNOTES

02.00.A	(E) GYP. CEILING TO REMAIN, PATCH DAMAGED CEILING FINISH AND PAINT, ASSUME 25% REPAIRS NEEDED, TYP.
02.00.H	(E) IDF TO BE PROTECTED, S.E.D.
02.00.I	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. PREPARE SURFACE FOR PAINTING
02.05.A	(E) CANE DETECTION RAILING TO BE DEMOLISHED
02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.C	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, (E) WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.08.D	(E) DOOR HARDWARE TO BE DEMOLISHED. DOOR AND FRAME TO REMAIN AND BE PROTECTED IN PLACE. PREPARE SURFACE FOR PAINTING.
02.08.E	(E) INTERIOR DOOR AND FRAME TO BE DEMOLISHED
02.08.F	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, (E) HOLLOW METAL FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.08.K	(E) CASED OPENING FRAME TO BE DEMOLISHED. PREPARE OPENING FOR WALL INFILL.
02.09.A	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED. PATCH, CLEAN SURFACE, AND SMOOTH OUT. PROTECT (E) SUBSTRATE FRAMING FOR ATTACHMENT OF NEW CEILING PANELS
02.09.B	(E) VCT FLOORING TO BE DEMOLISHED. PREPARE FOR NEW FLOORING
02.09.C	(E) TACKABLE WALL PANEL AND WOOD TRIM TO BE DEMOLISHED, TYP. FOR ALL WALLS
02.10.B	(E) PAPER TOWEL DISPENSER TO BE REMOVED AND RETURNED TO THE DISTRICT.
02.10.C	(E) HAND SOAP DISPENSER AND (E) HAND SANITIZER DISPENSER TO BE DEMOLISHED.
02.10.F	(E) PTD, HSD, TSCD AND TTD TO BE REMOVED AND REINSTALLED AFTER (N) RR FINISHES
02.10.G	(E) MIRROR TO BE DEMOLISHED
02.11.A	(E) WHITEBOARDS AND TACKBOARDS TO BE REMOVED
02.11.B	(E) WINDOW COVERINGS AND TRACK TO BE DEMOLISHED
02.11.C	(E) PROJECTOR TO BE REMOVED AND RETURNED TO THE DISTRICT
02.12.A	(E) CABINETS, COUNTERTOPS, BOOKSHELVES, LAPTOP DESK UNIT, AND ALL RELATED ACCESSORIES TO BE DEMOLISHED
02.12.B	(E) LAPTOP DESK WALL UNIT TO BE DEMOLISHED
02.22.A	(E) SINK TO BE DEMOLISHED. PREPARE TO RECEIVE NEW SINK AND CABINET
02.22.B	(E) DRINKING FOUNTAIN TO BE DEMOLISHED. S.P.D.
02.22.C	(E) SINK AND ACCESSORIES TO BE DEMOLISHED, S.P.D.
02.22.D	(E) PLUMBING FIXTURES TO BE DEMOLISHED, S.P.D.
02.22.E	(E) PLUMBING FIXTURE TO BE RELOCATED TO PERPENDICULAR WALL. S.P.D.
02.22.F	(E) SHOWER AND ACRYLIC SHOWER BASE AND WALL TO BE DEMOLISHED. S.P.D.
02.23.B	(E) FURNACE, PREVIOUSLY ABANDONED TO BE DEMOLISHED
02.23.C	(E) AC UNIT TO BE DEMOLISHED
02.23.H	(E) WALL MOUNTED LIGHT TO BE DEMOLISHED. S.E.D. PATCH AND PREPARE SURFACE FOR PAINTING
02.26.A	(E) LIGHT FIXTURES TO BE DEMOLISHED. PATCH AND PREPARE FOR (N) LIGHT FIXTURES
02.26.B	(E) LIGHTING FIXTURES TO BE DEMOLISHED
02.27.A	(E) CLOCK TO BE DEMOLISHED. S.T.D.
02.27.B	(E) WIRE MOLD TO BE DEMOLISHED. S.T.D.
02.27.C	(E) IDF TO BE DEMOLISHED. S.T.D.
02.40.A	(E) PARTITION WALL TO BE DEMOLISHED
22.00.A	(E) PLUMBING FIXTURE TO REMAIN

LEGEND - DEMOLITION

- (E) 2X WOOD FRAMED WALL TO BE DEMOLISHED
- (E) DOOR TO BE DEMOLISHED
- (E) DOOR & FRAME TO REMAIN AND BE PAINTED
- (E) WINDOW & FRAME TO BE DEMOLISHED
- (E) 2X WOOD FRAMED WALL TO REMAIN
- (E) CONSTRUCTION TO BE REMOVED
- REFERENCE PHOTO KEY

DEMOLITION NOTES

1. IN ACCORDANCE WITH PERTINENT ITEMS OF THESE NOTES AND THOSE ITEMS SO INDICATED ON THE DRAWINGS "CAREFULLY" DEMOLISH AND REMOVE FROM THE JOB SITE THOSE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED.
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7. VISIT THE SITE AND VERIFY THE EXTENT AND LOCATION OF SELECTIVE DEMOLITION REQUIRED.
8. CAREFULLY IDENTIFY LIMITS OF SELECTIVE DEMOLITION.
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11. COMPLETELY REMOVE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED, LEAVING SURFACES CLEAN, SOLID, AND READY TO RECEIVE NEW MATERIALS SPECIFIED ELSEWHERE.
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16. TERMINATE ALL ELECTRICAL CONDUITS CONTAINED IN WALLS TO BE DEMOLISHED PER N.E.C. 2023. CONDUITS FEEDING DEMOLISHED AREAS, BUT CONTAINED WITHIN CONSTRUCTION TO REMAIN MAY BE ABANDONED IN PLACE.
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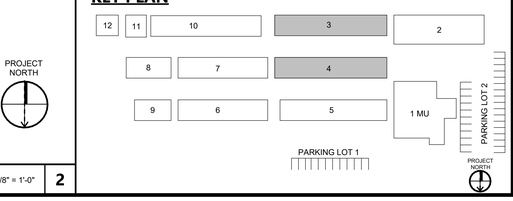
18. SEE PLASTER DEMOLITION & REPAIR NOTES ON 2A-911 PRIOR TO DEMOLITION OF PLASTER ASSEMBLIES

KEY PLAN



AGENCY APPROVAL DSA#

196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ-ARCE C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 3 & 4- DEMOLITION PLAN

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.

2A-021

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:39:07 PM

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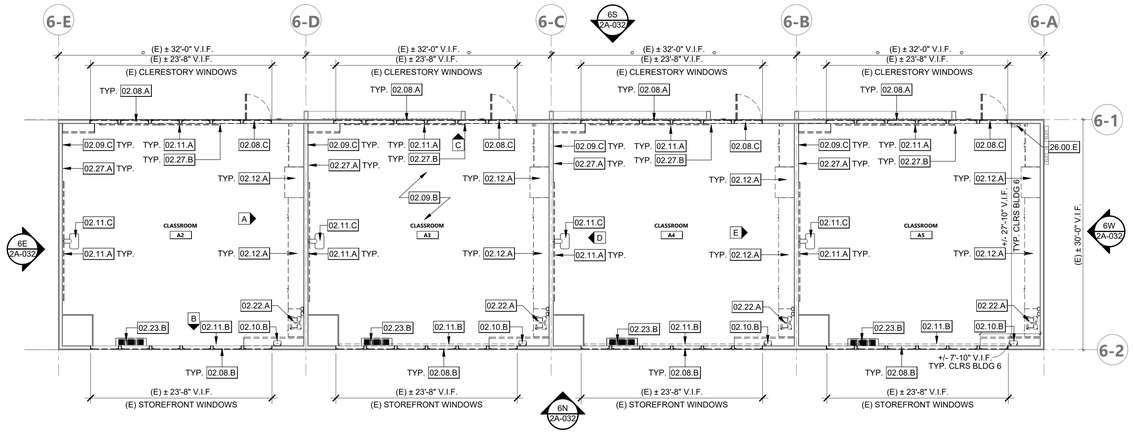
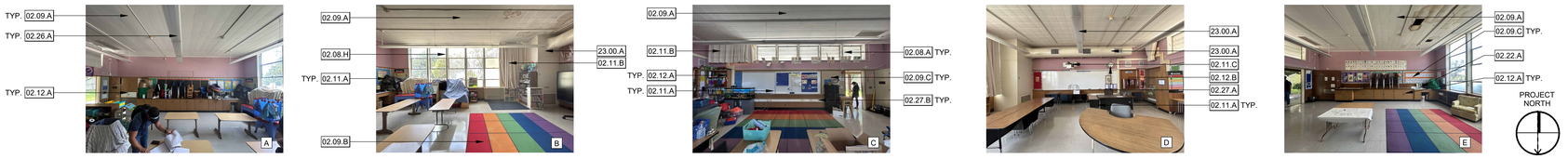
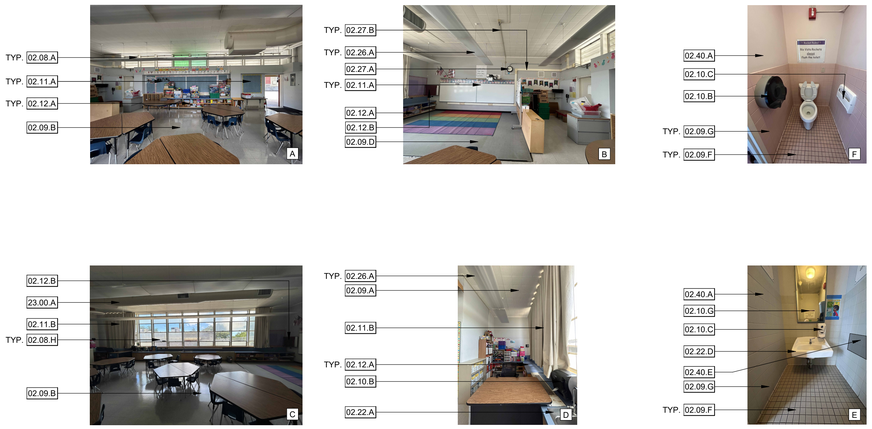
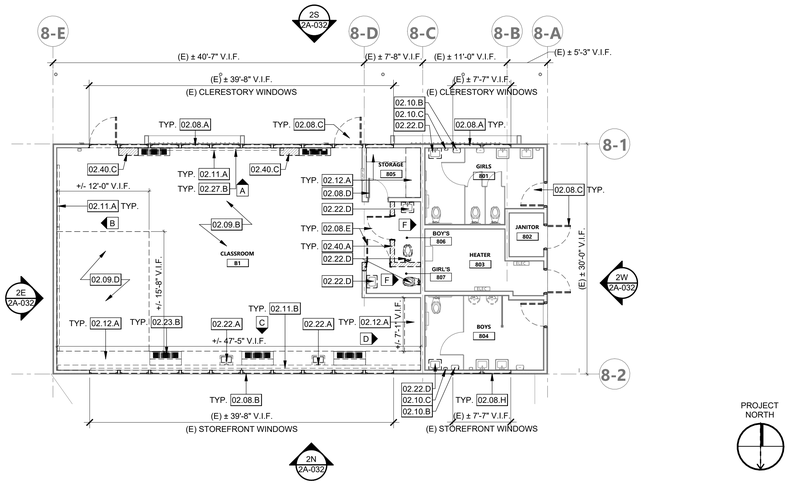


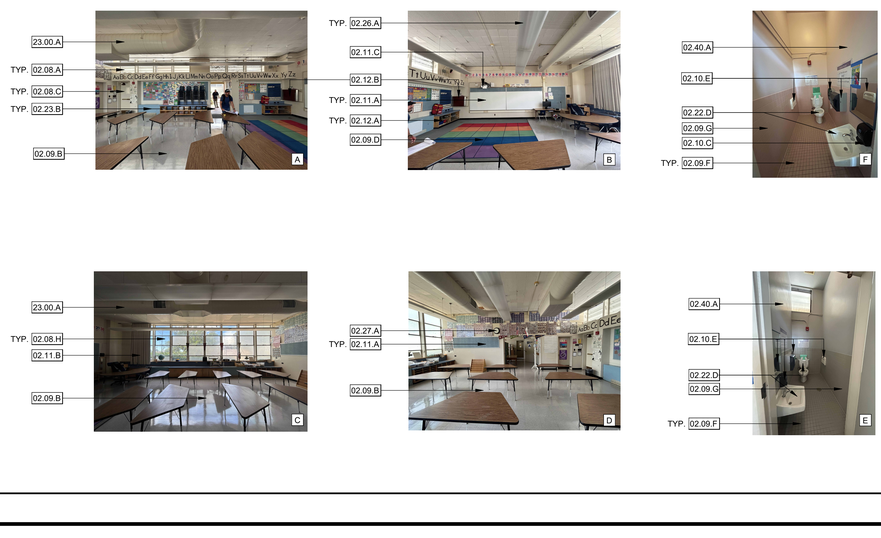


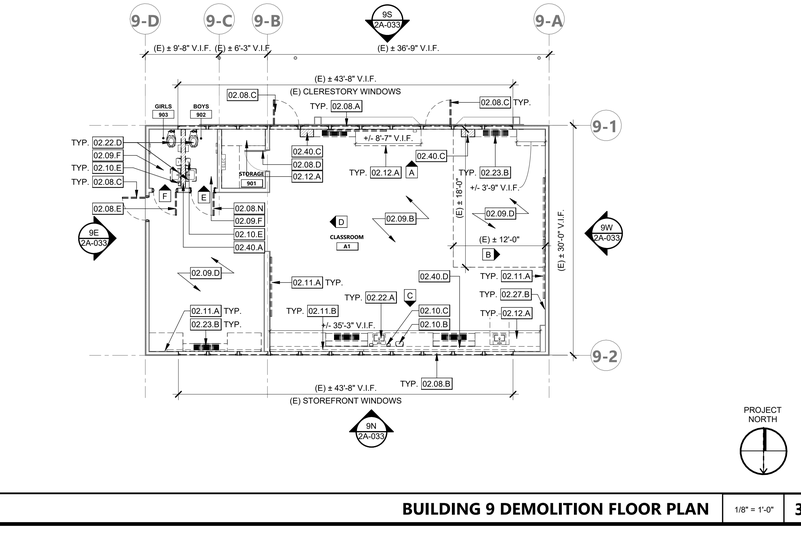
BUILDING 6 DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 1





BUILDING 8 DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 2





BUILDING 9 DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 3

KEYNOTES

02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.C	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, (E) WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.08.D	(E) DOOR HARDWARE TO BE DEMOLISHED. DOOR AND FRAME TO REMAIN AND BE PROTECTED IN PLACE. PREPARE SURFACE FOR PAINTING.
02.08.E	(E) INTERIOR DOOR AND FRAME TO BE DEMOLISHED
02.08.H	(E) WINDOW AND FRAME TO BE DEMOLISHED. PROTECT OPENING
02.08.N	(E) DOOR TO BE DEMOLISHED. PROTECT DOOR FRAME IN PLACE AND PREPARE SURFACE FOR PAINTING.
02.09.A	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED. PATCH, CLEAN SURFACE, AND SMOOTH OUT. PROTECT (E) SUBSTRATE FRAMING FOR ATTACHMENT OF NEW CEILING PANELS
02.09.B	(E) VCT FLOORING TO BE DEMOLISHED. PREPARE FOR NEW FLOORING
02.09.C	(E) TACKABLE WALL PANEL AND WOOD TRIM TO BE DEMOLISHED, TYP. FOR ALL WALLS
02.09.D	(E) CARPET TO BE DEMOLISHED. PREPARE FOR NEW FLOORING
02.09.F	(E) CERAMIC TILE FLOORING TO BE DEMOLISHED
02.09.G	(E) CERAMIC WALL TILE TO BE DEMOLISHED
02.10.B	(E) PAPER TOWEL DISPENSER TO BE REMOVED AND RETURNED TO THE DISTRICT.
02.10.C	(E) HAND SOAP DISPENSER AND (E) HAND SANITIZER DISPENSER TO BE DEMOLISHED.
02.10.E	(E) MIR, PTD, HSD, TSCD AND TTD TO BE DEMOLISHED.
02.10.G	(E) MIRROR TO BE DEMOLISHED
02.11.A	(E) WHITEBOARDS AND TACKBOARDS TO BE REMOVED
02.11.B	(E) WINDOW COVERINGS AND TRACK TO BE DEMOLISHED
02.11.C	(E) PROJECTOR TO BE REMOVED AND RETURNED TO THE DISTRICT
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02.22.A	(E) SINK TO BE DEMOLISHED. PREPARE TO RECEIVE NEW SINK AND CABINET
02.22.D	(E) PLUMBING FIXTURES TO BE DEMOLISHED, S.P.D.
02.23.B	(E) FURNACE, PREVIOUSLY ABANDONED TO BE DEMOLISHED
02.26.A	(E) LIGHT FIXTURES TO BE DEMOLISHED. PATCH AND PREPARE FOR (N) LIGHT FIXTURES
02.27.A	(E) CLOCK TO BE DEMOLISHED. S.T.D.
02.27.B	(E) WIRE MOLD TO BE DEMOLISHED. S.T.D.
02.40.A	(E) PARTITION WALL TO BE DEMOLISHED
02.40.C	(E) UTILITY LINE ENCLOSURE/SOFFIT TO BE DEMOLISHED
02.40.D	(E) FURRED WALL AND ALL CONDUITS RUNNING THROUGH WALL TO BE DEMOLISHED. SEE SECTION DETAIL FOR DEMOLITION SCOPE AND PLUMBING DRAWINGS
02.40.E	(E) PORTION OF PARTITION WALL TO BE DEMOLISHED TO RECEIVE NEW PLUMBING FIXTURE BLOCKING
23.00.A	(E) HVAC HOUSING AND DUCTWORK TO REMAIN IN PLACE AND BE PROTECTED DURING CONSTRUCTION.
26.00.E	(E) BULK-POWER SYSTEM (BPS) TO BE PROTECTED IN PLACE. S.F.A.D.

LEGEND - DEMOLITION

- (E) 2X WOOD FRAMED WALL TO BE DEMOLISHED
- (E) DOOR TO BE DEMOLISHED
- (E) DOOR & FRAME TO REMAIN AND BE PAINTED
- (E) WINDOW & FRAME TO BE DEMOLISHED
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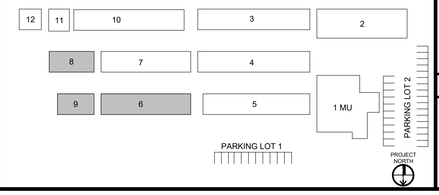
KEY PLAN



AGENCY APPROVAL DSA# 01-121440

196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
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San Francisco, CA 94104
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TECHNOLOGY ENGINEER
KMM Services Inc.
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Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARTIN ALVAREZ AREA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 6, 8 & 9 - DEMOLITION PLAN

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

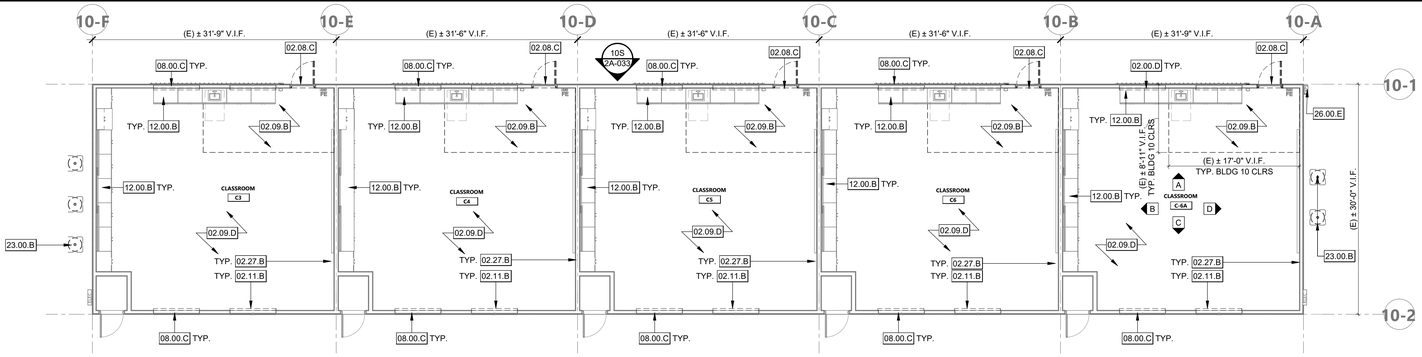
SHEET NO.

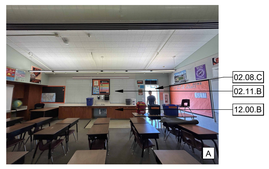
2A-022

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

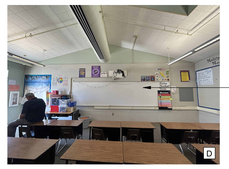
DATE PLOTTED: 9/27/2024 4:39:17 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt





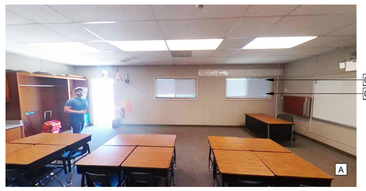


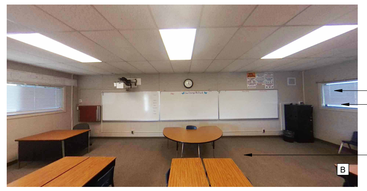


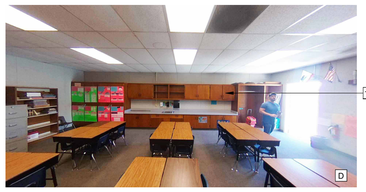


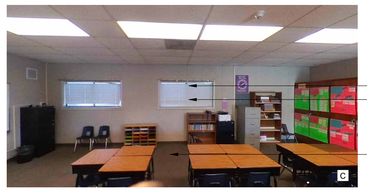
PROJECT NORTH

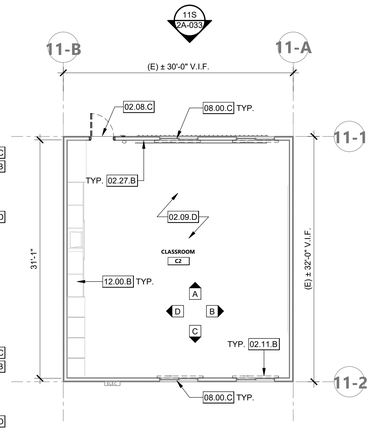
BUILDING 10 DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 1



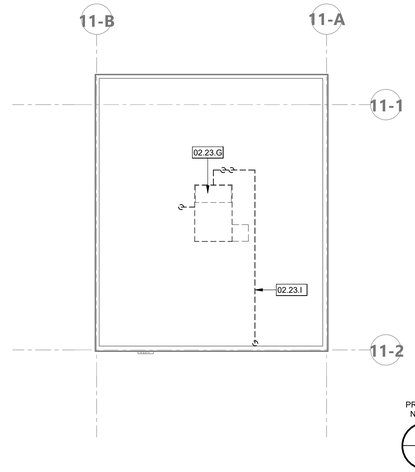






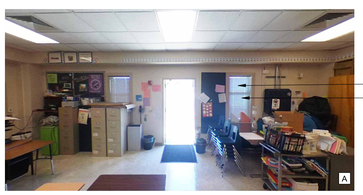


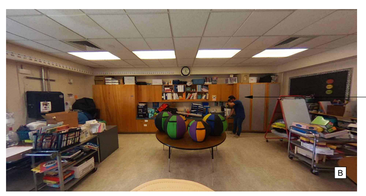
BLDG. 11 DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 4

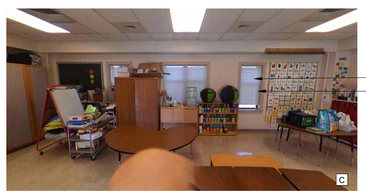


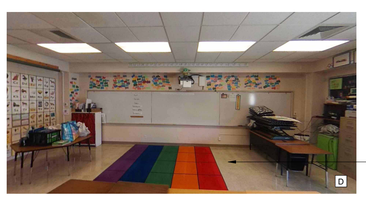
PROJECT NORTH

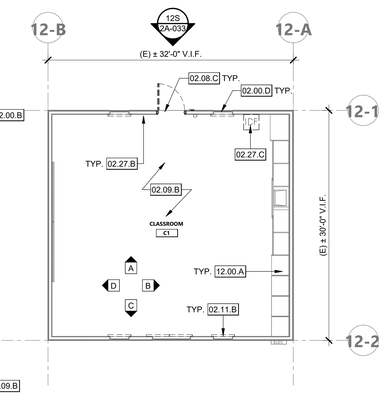
BLDG. 11 DEMOLITION ROOF PLAN | 1/8" = 1'-0" | 2



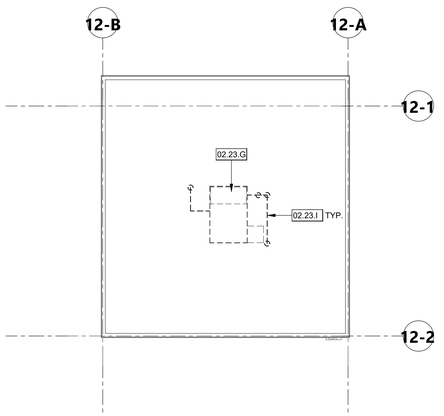








BUILDING 12 DEMOLITION FLOOR PLAN | 1/8" = 1'-0" | 5



PROJECT NORTH

BLDG. 12 DEMOLITION ROOF PLAN | 1/8" = 1'-0" | 3

KEYNOTES

02.00.D	(E) WINDOW TO REMAIN. PROTECT DURING CONSTRUCTION
02.08.C	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, (E) WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.09.B	(E) VCT FLOORING TO BE DEMOLISHED. PREPARE FOR NEW FLOORING
02.09.D	(E) CARPET TO BE DEMOLISHED. PREPARE FOR NEW FLOORING
02.11.A	(E) WHITEBOARDS AND TACKBOARDS TO BE REMOVED
02.11.B	(E) WINDOW COVERINGS AND TRACK TO BE DEMOLISHED
02.23.G	(E) AC UNIT TO BE DEMOLISHED. EXISTING ROOF CURB TO REMAIN. PREPARE AREA FOR NEW AC UNIT. S.MP.D.
02.23.I	(E) PIPING ON ROOF TO BE DEMOLISHED. SEE MECHANICAL DRAWINGS FOR EXTENSION OF DEMOLITION WORK
02.27.B	(E) WIRE MOLD TO BE DEMOLISHED. S.T.D.
02.27.C	(E) IDF TO BE DEMOLISHED. S.T.D.
08.00.C	(E) WINDOW TO BE PROTECTED IN PLACE. SEE ADDITIONAL NOTES ON EXTERIOR ELEVATION FOR FRAME PAINTING.
12.00.A	(E) BICYCLE RACKS
12.00.B	(E) CASEWORK TO BE PROTECTED IN PLACE DURING CONSTRUCTION.
23.00.B	(E) MECHANICAL UNIT TO BE DEMOLISHED. S.MP.D.
26.00.E	(E) BULK-POWER SYSTEM (BPS) TO BE PROTECTED IN PLACE. S.FA.D.

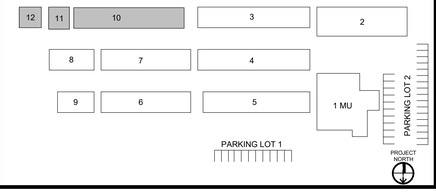
DEMOLITION NOTES

1. IN ACCORDANCE WITH PERTINENT ITEMS OF THESE NOTES AND THOSE ITEMS SO INDICATED ON THE DRAWINGS "CAREFULLY" DEMOLISH AND REMOVE FROM THE JOB SITE THOSE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED.
2. SEE SPECIFICATION SECTION 02 41 19 FOR MORE DEMOLITION NOTES, REQUIREMENTS, AND PROCEDURES.
3. **REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM AND TECHNOLOGY DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.**
4. KEYNOTED ELEMENTS SCHEDULED FOR DEMOLITION ARE NOTED FOR CLARIFICATION ONLY. SEE DEMOLITION PLAN LEGEND FOR ADDITIONAL DEMOLITION REQUIREMENTS.
   USE ADEQUATE NUMBERS OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
5. SURFACE CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
6. DEMOLITION: BY CAREFUL STUDY OF THE DRAWINGS, DETERMINE THE LOCATION AND EXTENT OF SELECTIVE DEMOLITION REQUIRED.
7. VISIT THE SITE AND VERIFY THE EXTENT AND LOCATION OF SELECTIVE DEMOLITION REQUIRED.
8. CAREFULLY IDENTIFY LIMITS OF SELECTIVE DEMOLITION.
9. MARK INTERFACE SURFACES AS REQUIRED TO ENABLE WORKMAN ALSO TO IDENTIFY ITEMS TO BE REMOVED AND ITEMS TO BE LEFT IN PLACE INTACT.
10. PREPARE AND FOLLOW AN ORGANIZED PLAN FOR DEMOLITION AND REMOVAL OF ITEMS.
11. COMPLETELY REMOVE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED, LEAVING SURFACES CLEAN, SOLID, AND READY TO RECEIVE NEW MATERIALS SPECIFIED ELSEWHERE.
12. SALVAGE: AFTER CAREFUL REVIEW OF THE DRAWINGS SHOWING PROPOSED NEW CONSTRUCTION, IDENTIFY THOSE ITEMS THAT ARE GOOD CANDIDATES FOR RE-USE AND CAREFULLY REMOVE AND STOCKPILE THEM ON SITE IN A PROTECTED AREA.
13. DEMOLISHED MATERIALS SHALL BE CONSIDERED TO BE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED FROM THE JOB SITE, UNLESS OTHERWISE DIRECTED BY THE DISTRICT.
14. REPLACEMENTS: IN THE EVENT OF DEMOLITION OF ITEMS NOT SO SCHEDULED TO BE DEMOLISHED, PROMPTLY REPLACE SUCH ITEMS TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.
15. SEE ASBESTOS & LEAD IN PAINT SURVEY REPORT FOR RIO VISTA ELEMENTARY SHOOL PROVIDED BY ENVIRO-S.T.A.R. FOR REQUIRED ABATEMENT, BASED ON THE REPORT PROVIDED, MATERIALS IDENTIFIED FOR REMOVAL WILL BE REMOVED BY AN ABATEMENT CONTRACTOR PROPERLY LICENSED AND REGISTERED TO DO ASBESTOS & LEAD ABATEMENT.
16. TERMINATE ALL ELECTRICAL CONDUITS CONTAINED IN WALLS TO BE DEMOLISHED PER N.E.C. 2023. CONDUITS FEEDING DEMOLISHED AREAS, BUT CONTAINED WITHIN CONSTRUCTION TO REMAIN MAY BE ABANDONED IN PLACE.
17. ALL ITEMS INDICATED FOR DEMOLITION ON THIS SHEET ARE CONSIDERED TO BE NON-STRUCTURAL. DURING DEMOLITION, EVIDENCE MAY BECOME APPARENT OF A LOAD-BEARING ITEM WHICH IS SHOWN TO BE DEMOLISHED. CONTRACTOR SHALL NOT REMOVE ANY ITEMS WHICH SHOW EVIDENCE OF CARRYING ROOF LOADS, CEILING JOIST LOADS, NOR WALLS WHICH ARE SHEATHED WITH PLYWOOD WITHOUT PRIOR APPROVAL OF THE ARCHITECT EVEN IF SUCH ITEMS ARE SHOWN TO BE DEMOLISHED HEREIN.
18. SEE PLASTER DEMOLITION & REPAIR NOTES ON 2A-911 PRIOR TO DEMOLITION OF PLASTER ASSEMBLIES

LEGEND - DEMOLITION

- (E) 2X WOOD FRAMED WALL TO BE DEMOLISHED
- (E) DOOR TO BE DEMOLISHED
- (E) DOOR & FRAME TO REMAIN AND BE PAINTED
- (E) WINDOW & FRAME TO BE DEMOLISHED
- (E) 2X WOOD FRAMED WALL TO REMAIN
- (E) CONSTRUCTION TO BE REMOVED
- REFERENCE PHOTO KEY

KEY PLAN



AGENCY APPROVAL DSA#

196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ YAMASAKI C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 10, 11 & 12- DEMOLITION PLAN

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

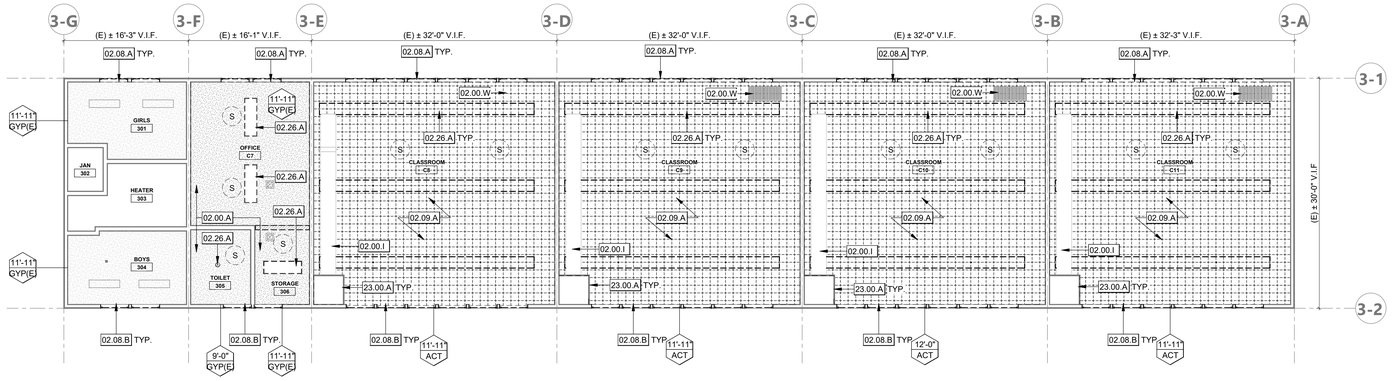
SHEET NO.

2A-023

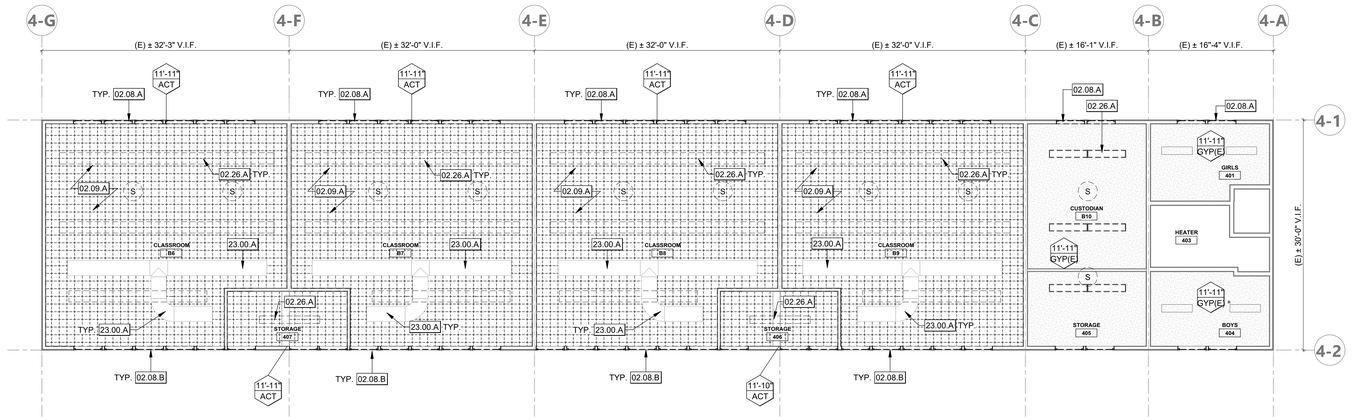
DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:39:23 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



DEMOLITION RCP BUILDING 3 | 1/8" = 1'-0" | 1



DEMOLITION RCP BUILDING 4 | 1/8" = 1'-0" | 2

KEYNOTES

02.00.A	(E) GYP. CEILING TO REMAIN, PATCH DAMAGED CEILING FINISH AND PAINT, ASSUME 25% REPAIRS NEEDED, TYP.
02.00.I	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. PREPARE SURFACE FOR PAINTING
02.00.W	(E) AIR VENT, PROTECT DURING CEILING TILES REMOVAL.
02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.09.A	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED. PATCH, CLEAN SURFACE, AND SMOOTH OUT. PROTECT (E) SUBSTRATE FRAMING FOR ATTACHMENT OF NEW CEILING PANELS
02.26.A	(E) LIGHT FIXTURES TO BE DEMOLISHED. PATCH AND PREPARE FOR (N) LIGHT FIXTURES
23.00.A	(E) HVAC HOUSING AND DUCTWORK TO REMAIN IN PLACE AND BE PROTECTED DURING CONSTRUCTION.

DEMO CEILING GENERAL NOTES

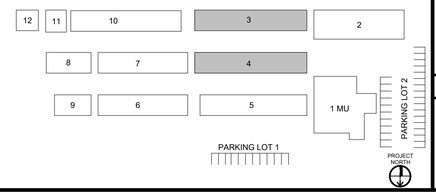
1. COORDINATE WITH ELECTRICAL, MECHANICAL, PLUMING DRAWINGS FOR DEMOLITION WORK
2. (E) FINISHES, EQUIPMENT, CONDUITS, ETC. INDICATED TO REMAIN, SHALL BE PROTECTED DURING CONSTRUCTION.
3. AT CEILINGS TO BE REMOVED, REMOVE ALL CEILINGS, SOFFITS, RELATED SUPPORT SYSTEMS AND ACCESSORIES, AND CEILING MOUNTED ITEMS. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
4. PROCEED WITH CAUTION WHEN REMOVING (E) CEILING AND/OR (E) CEILING FRAMING TO AVOID DAMAGING ANY (E) UTILITIES.
5. REMOVE ALL INTERIOR LIGHT FIXTURES AT AREAS OF CEILING REMOVAL AND SALVAGE. TURN OVER TO OWNER FOR RE-USE.

LEGEND - CEILING DEMOLITION

- 9'-2" ACT — CEILING HEIGHT ABOVE FIN. FLOOR
- CEILING MATERIAL
- (E) 1X1 GLUE-UP CEILING TILES TO BE DEMOLISHED
- (E) GWB - FRAMED GYPSUM BOARD CEILING TO PATCH AND REPAIR WHERE INDICATED
- (E) GWB - FRAMED GYPSUM BOARD CEILING TO BE DEMOLISHED WHERE INDICATED
- (E) EXHAUST FAN TO BE REMOVED WHERE INDICATED
- (E) SEMI RECESSED LIGHTING FIXTURE DO BE DEMOLISHED
- (E) PENDANT LIGHTING FIXTURE DO BE DEMOLISHED
- (E) AC SPLIT UNIT DO BE DEMOLISHED
- ROOF ACCESS HATCH
- (E) RETURN AIR GRILLE
- (E) SUPPLY REGISTER
- (E) EXHAUST FAN OR GRILLE TO BE REMOVED WHERE INDICATED
- S — (E) SMOKE DETECTOR

NOTE: SYMBOLS SHOWN FOR LOCATION PURPOSES ONLY. SEE MECHANICAL, ELECTRICAL, & FIRE PROTECTION DRAWINGS FOR DETAILED INFORMATION

KEY PLAN



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196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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CARROLL ENGINEERING
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TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARTIN ALVAREZ JR. C-36107 REN. 01-31-25 STATE OF CALIFORNIA

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Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 3 & 4- DEMOLITION REFLECTED CEILING PLAN

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.

2A-025

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

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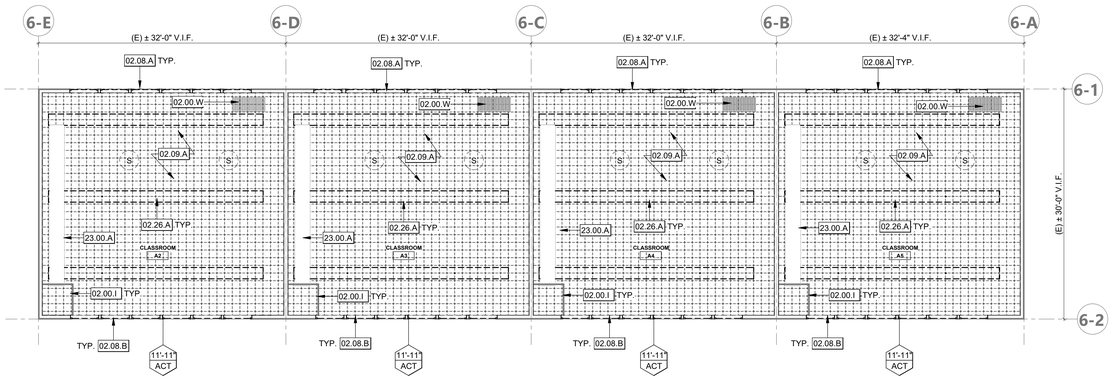
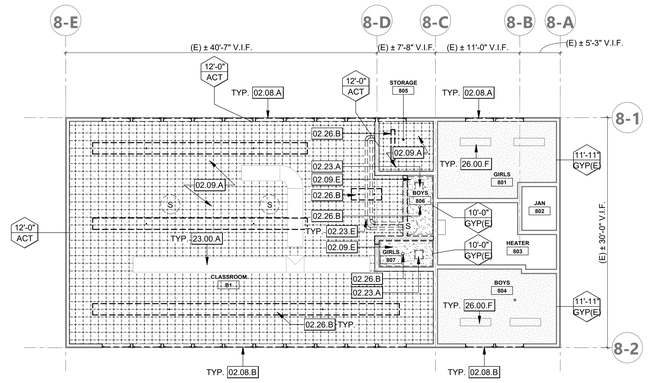


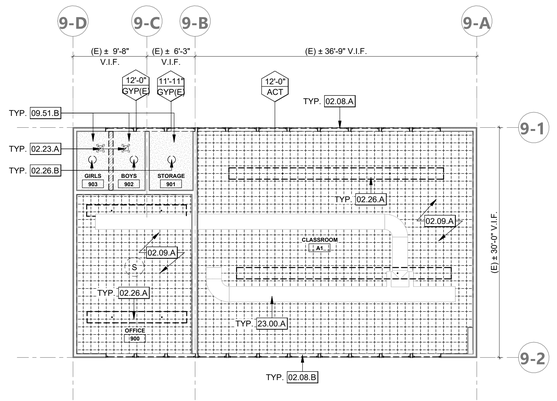
PROJECT NORTH

DEMOLITION RCP BUILDING 6 | 1/8" = 1'-0" | **1**



PROJECT NORTH

DEMOLITION RCP BUILDING 8 | 1/8" = 1'-0" | **2**



PROJECT NORTH

DEMOLITION RCP BUILDING 9 | 1/8" = 1'-0" | **3**

KEYNOTES

02.00.I	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. PREPARE SURFACE FOR PAINTING
02.00.W	(E) AIR VENT, PROTECT DURING CEILING TILES REMOVAL.
02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.09.A	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED. PATCH, CLEAN SURFACE, AND SMOOTH OUT. PROTECT (E) SUBSTRATE FRAMING FOR ATTACHMENT OF NEW CEILING PANELS
02.09.E	(E) GYPSUM BOARD CEILING AND FRAMING TO BE DEMOLISHED. REMOVE LEDGERS, JOISTS, AND BLOCKING.
02.23.A	(E) EXHAUST FAN TO BE DEMOLISHED. S.M.D.
02.23.E	(E) DUCTWORK AND FURNACE TO BE DEMOLISHED. S.MP.D.
02.26.A	(E) LIGHT FIXTURES TO BE DEMOLISHED. PATCH AND PREPARE FOR (N) LIGHT FIXTURES
02.26.B	(E) LIGHTING FIXTURES TO BE DEMOLISHED
09.51.B	(E) GYPSUM BOARD CEILING TO BE PAINTED AND PATCHED
23.00.A	(E) HVAC HOUSING AND DUCTWORK TO REMAIN IN PLACE AND BE PROTECTED DURING CONSTRUCTION.
26.00.F	(E) LIGHTING FIXTURE TO REMAIN

DEMO CEILING GENERAL NOTES

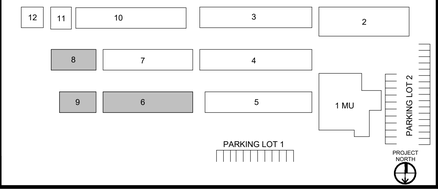
1. COORDINATE WITH ELECTRICAL, MECHANICAL, PLUMING DRAWINGS FOR DEMOLITION WORK
2. (E) FINISHES, EQUIPMENT, CONDUITS, ETC. INDICATED TO REMAIN, SHALL BE PROTECTED DURING CONSTRUCTION.
3. AT CEILINGS TO BE REMOVED, REMOVE ALL CEILINGS, SOFFITS, RELATED SUPPORT SYSTEMS AND ACCESSORIES, AND CEILING MOUNTED ITEMS. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
4. PROCEED WITH CAUTION WHEN REMOVING (E) CEILING AND/OR (E) CEILING FRAMING TO AVOID DAMAGING ANY (E) UTILITIES.
5. REMOVE ALL INTERIOR LIGHT FIXTURES AT AREAS OF CEILING REMOVAL AND SALVAGE. TURN OVER TO OWNER FOR RE-USE.

LEGEND - CEILING DEMOLITION

- 9'-2" ACT — CEILING HEIGHT ABOVE FIN. FLOOR
- CEILING MATERIAL
- (E) 1X1 GLUE-UP CEILING TILES TO BE DEMOLISHED
- (E) GWB - FRAMED GYPSUM BOARD CEILING TO PATCH AND REPAIR WHERE INDICATED
- (E) GWB - FRAMED GYPSUM BOARD CEILING TO BE DEMOLISHED WHERE INDICATED
- (E) EXHAUST FAN TO BE REMOVED WHERE INDICATED
- (E) SEMI RECESSED LIGHTING FIXTURE DO BE DEMOLISHED
- (E) PENDANT LIGHTING FIXTURE DO BE DEMOLISHED
- (E) AC SPLIT UNIT DO BE DEMOLISHED
- ROOF ACCESS HATCH
- (E) RETURN AIR GRILLE
- (E) SUPPLY REGISTER
- (E) EXHAUST FAN OR GRILLE TO BE REMOVED WHERE INDICATED
- S — (E) SMOKE DETECTOR

NOTE: SYMBOLS SHOWN FOR LOCATION PURPOSES ONLY. SEE MECHANICAL, ELECTRICAL, & FIRE PROTECTION DRAWINGS FOR DETAILED INFORMATION

KEY PLAN



AGENCY APPROVAL DSA#

196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
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LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ ORTEGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 6, 8 & 9- DEMOLITION REFLECTED CEILING PLAN

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

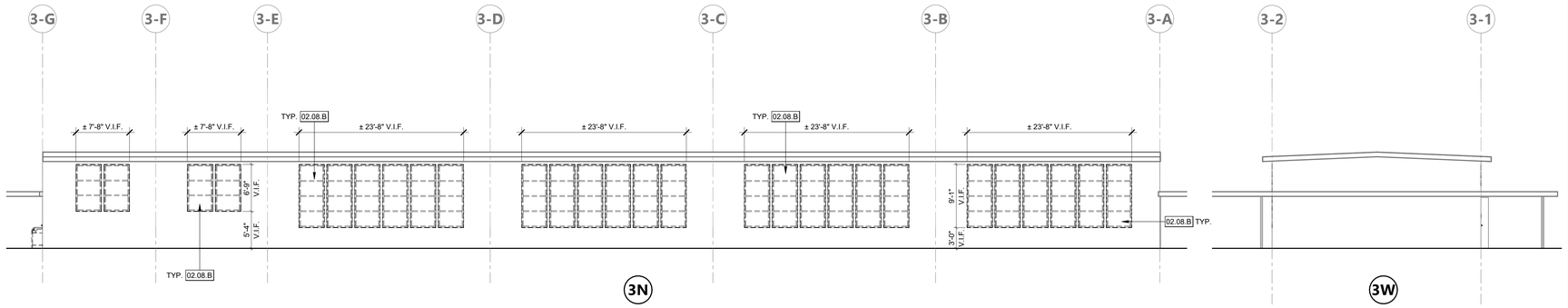
SHEET NO.

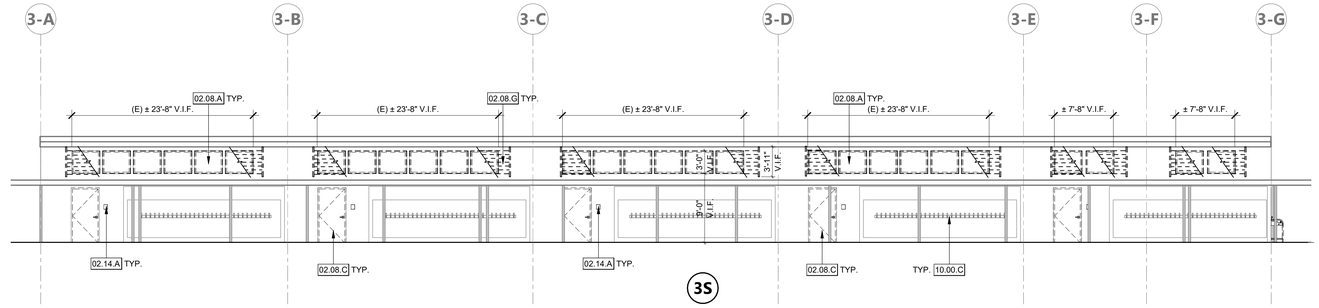
2A-026

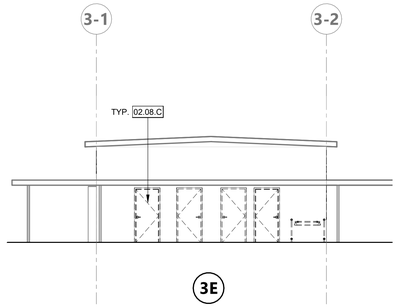
DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

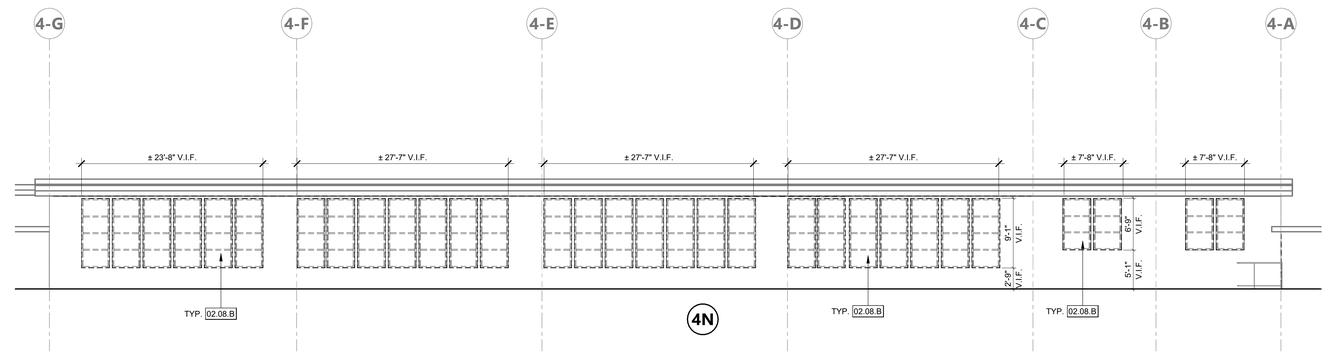
DATE PLOTTED: 9/27/2024 4:39:31 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

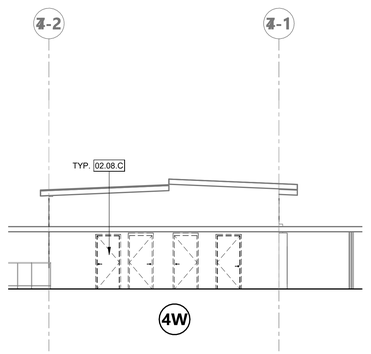


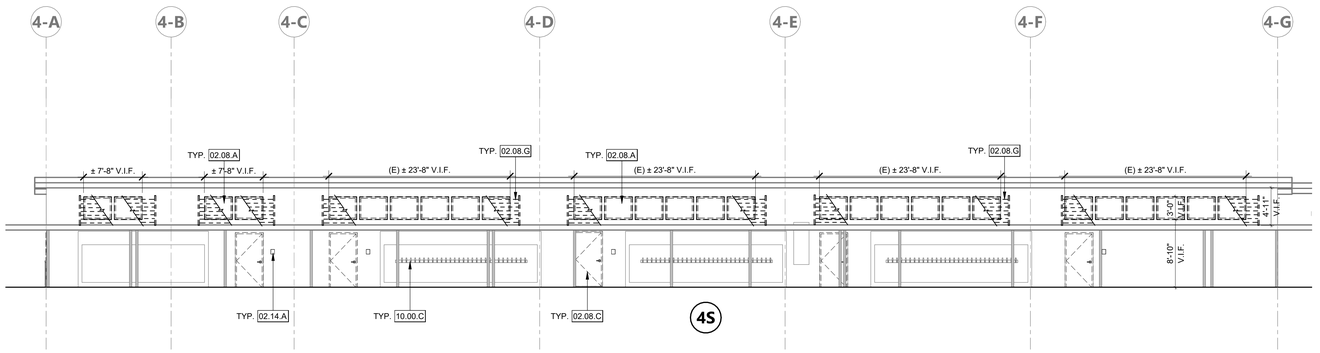


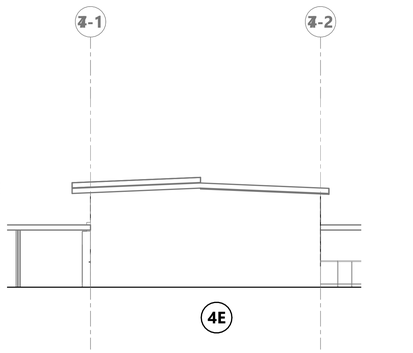


BUILDING 3 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1









BUILDING 4 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2

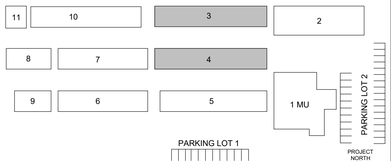
KEYNOTES

02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.C	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, (E) WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.08.G	(E) WINDOW LOUVERS TO BE DEMOLISHED TYP.
02.14.A	(E) SIGNAGE TO BE DEMOLISHED
10.00.C	(E) COAT RACK TO BE REMOVED AND REINSTALLED DURING EXTERIOR PAINTING.

DEMOLITION NOTES

1. IN ACCORDANCE WITH PERTINENT ITEMS OF THESE NOTES AND THOSE ITEMS SO INDICATED ON THE DRAWINGS "CAREFULLY" DEMOLISH AND REMOVE FROM THE JOB SITE THOSE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED.
2. SEE SPECIFICATION SECTION 02 41 19 FOR MORE DEMOLITION NOTES, REQUIREMENTS, AND PROCEDURES.
3. **REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM AND TECHNOLOGY DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.**
4. KEYNOTED ELEMENTS SCHEDULED FOR DEMOLITION ARE NOTED FOR CLARIFICATION ONLY. SEE DEMOLITION PLAN LEGEND FOR ADDITIONAL DEMOLITION REQUIREMENTS.
   USE ADEQUATE NUMBERS OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
5. SURFACE CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
6. DEMOLITION: BY CAREFUL STUDY OF THE DRAWINGS, DETERMINE THE LOCATION AND EXTENT OF SELECTIVE DEMOLITION REQUIRED.
7. VISIT THE SITE AND VERIFY THE EXTENT AND LOCATION OF SELECTIVE DEMOLITION REQUIRED.
8. CAREFULLY IDENTIFY LIMITS OF SELECTIVE DEMOLITION.
9. MARK INTERFACE SURFACES AS REQUIRED TO ENABLE WORKMAN ALSO TO IDENTIFY ITEMS TO BE REMOVED AND ITEMS TO BE LEFT IN PLACE INTACT.
10. PREPARE AND FOLLOW AN ORGANIZED PLAN FOR DEMOLITION AND REMOVAL OF ITEMS.
11. COMPLETELY REMOVE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED, LEAVING SURFACES CLEAN, SOLID, AND READY TO RECEIVE NEW MATERIALS SPECIFIED ELSEWHERE.
12. SALVAGE: AFTER CAREFUL REVIEW OF THE DRAWINGS SHOWING PROPOSED NEW CONSTRUCTION, IDENTIFY THOSE ITEMS THAT ARE GOOD CANDIDATES FOR RE-USE AND CAREFULLY REMOVE AND STOCKPILE THEM ON SITE IN A PROTECTED AREA.
13. DEMOLISHED MATERIALS SHALL BE CONSIDERED TO BE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED FROM THE JOB SITE, UNLESS OTHERWISE DIRECTED BY THE DISTRICT.
14. REPLACEMENTS: IN THE EVENT OF DEMOLITION OF ITEMS NOT SO SCHEDULED TO BE DEMOLISHED, PROMPTLY REPLACE SUCH ITEMS TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.
15. SEE ASBESTOS & LEAD IN PAINT SURVEY REPORT FOR RIO VISTA ELEMENTARY SHOOL PROVIDED BY ENVIRO-S T A R. FOR REQUIRED ABATEMENT, BASED ON THE REPORT PROVIDED. MATERIALS IDENTIFIED FOR REMOVAL WILL BE REMOVED BY AN ABATEMENT CONTRACTOR PROPERLY LICENSED AND REGISTERED TO DO ASBESTOS & LEAD ABATEMENT.
16. TERMINATE ALL ELECTRICAL CONDUITS CONTAINED IN WALLS TO BE DEMOLISHED PER N.E.C. 2023. CONDUITS FEEDING DEMOLISHED AREAS, BUT CONTAINED WITHIN CONSTRUCTION TO REMAIN MAY BE ABANDONED IN PLACE.
17. ALL ITEMS INDICATED FOR DEMOLITION ON THIS SHEET ARE CONSIDERED TO BE NON-STRUCTURAL. DURING DEMOLITION, EVIDENCE MAY BECOME APPARENT OF A LOAD-BEARING ITEM WHICH IS SHOWN TO BE DEMOLISHED. CONTRACTOR SHALL NOT REMOVE ANY ITEMS WHICH SHOW EVIDENCE OF CARRYING ROOF LOADS, CEILING JOIST LOADS, NOR WALLS WHICH ARE SHEATHED WITH PLYWOOD WITHOUT PRIOR APPROVAL OF THE ARCHITECT EVEN IF SUCH ITEMS ARE SHOWN TO BE DEMOLISHED HEREIN.
18. SEE PLASTER DEMOLITION & REPAIR NOTES ON 2A-911 PRIOR TO DEMOLITION OF PLASTER ASSEMBLIES

KEY PLAN



AGENCY APPROVAL DSA#

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ ARGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 3 & 4 - DEMOLITION EXTERIOR ELEVATIONS

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

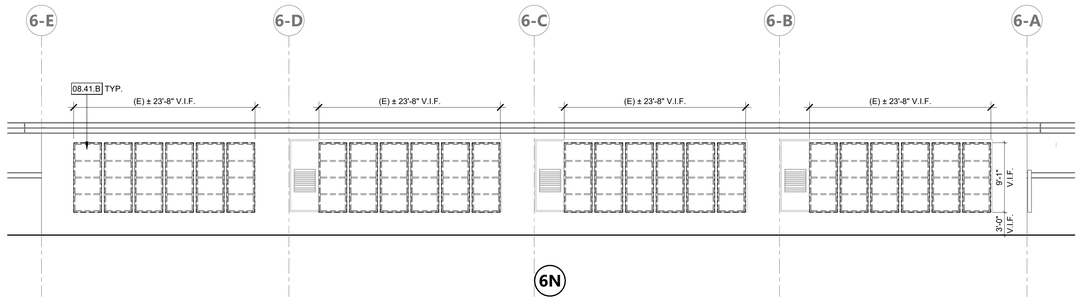
SHEET NO.

2A-031

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:39:38 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDJUSD_RIO VISTA ES MOD_INC02_A22.rvt



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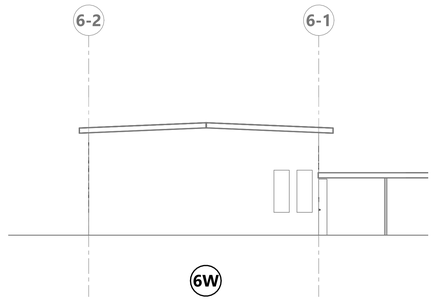

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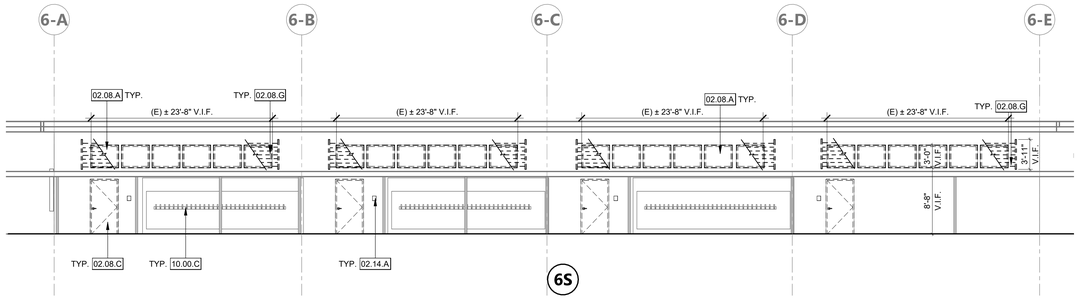

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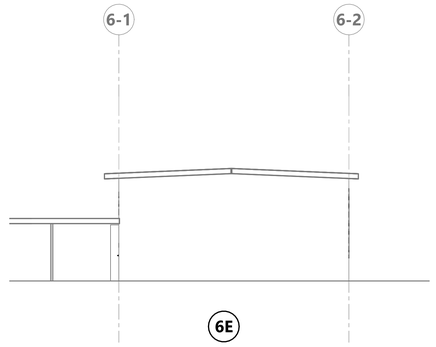
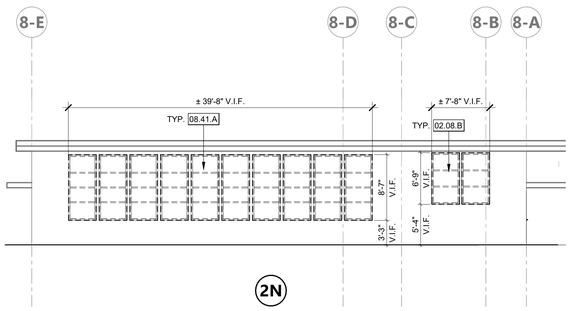


6E

BUILDING 6 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1



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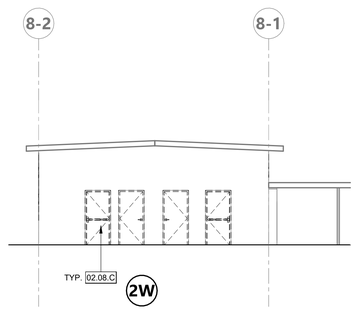

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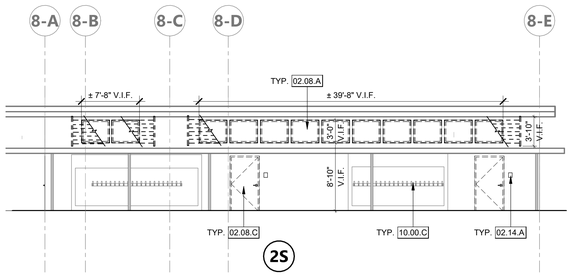

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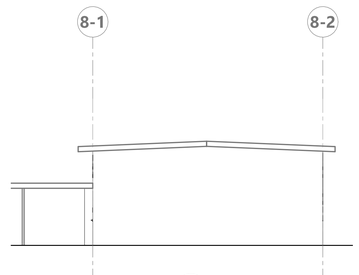

2E

BUILDING 8 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2

KEYNOTES

02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.C	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, (E) WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.08.G	(E) WINDOW LOUVERS TO BE DEMOLISHED TYP.
02.14.A	(E) SIGNAGE TO BE DEMOLISHED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.41.B	(N) STOREFRONT ALUMINUM DOOR
10.00.C	(E) COAT RACK TO BE REMOVED AND REINSTALLED DURING EXTERIOR PAINTING.

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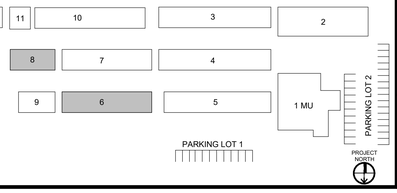
18. SEE PLASTER DEMOLITION & REPAIR NOTES ON 2A-911 PRIOR TO DEMOLITION OF PLASTER ASSEMBLIES

KEY PLAN



AGENCY APPROVAL DSA#

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ AREA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 6 & 8 - DEMOLITION EXTERIOR ELEVATIONS

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

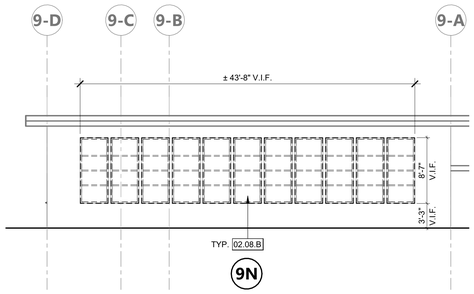
SHEET NO.

2A-032

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:39:43 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



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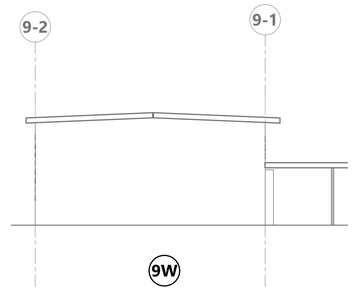

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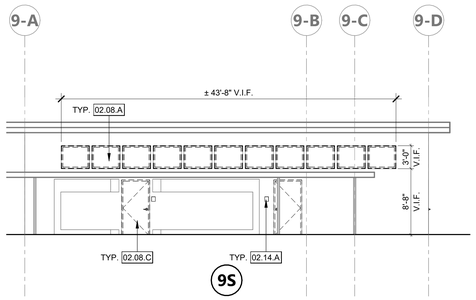

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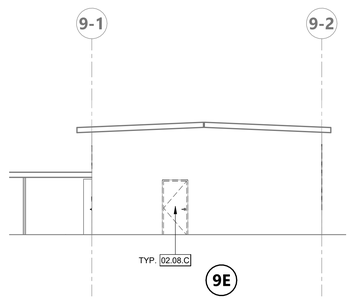
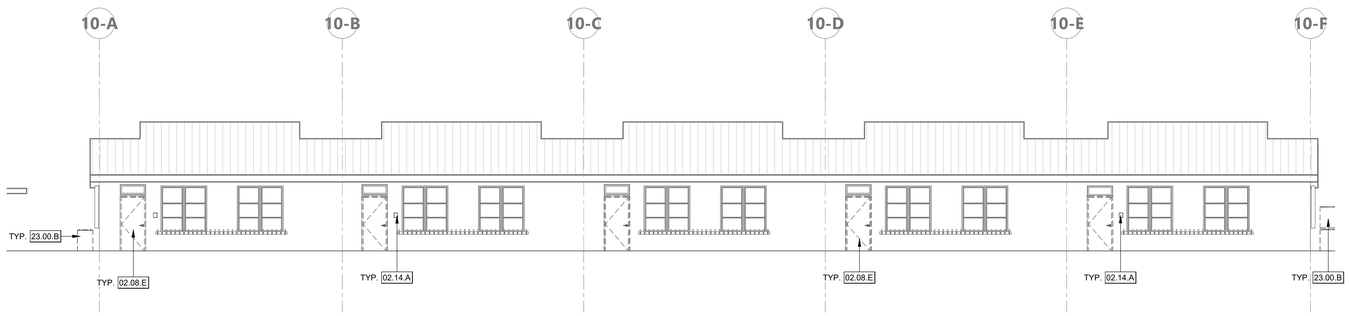


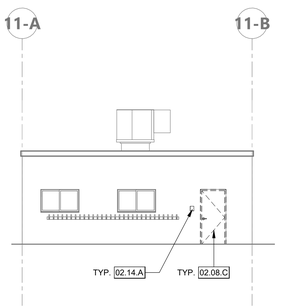
9E

BUILDING 9 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1



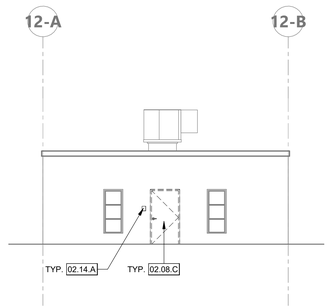
10S

BUILDING 10 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2



11S

BUILDING 11 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 3



12S

BUILDING 12 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 4

KEYNOTES

02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING. PREPARE TO RECEIVE NEW
02.08.C	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, (E) WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.08.E	(E) INTERIOR DOOR AND FRAME TO BE DEMOLISHED
02.14.A	(E) SIGNAGE TO BE DEMOLISHED
23.00.B	(E) MECHANICAL UNIT TO BE DEMOLISHED. S.MP.D.

DEMOLITION NOTES

1. IN ACCORDANCE WITH PERTINENT ITEMS OF THESE NOTES AND THOSE ITEMS SO INDICATED ON THE DRAWINGS "CAREFULLY" DEMOLISH AND REMOVE FROM THE JOB SITE THOSE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED.
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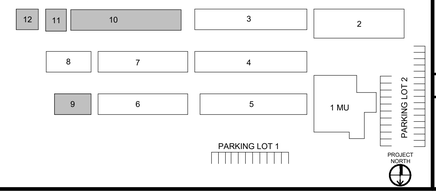
4. KEYNOTED ELEMENTS SCHEDULED FOR DEMOLITION ARE NOTED FOR CLARIFICATION ONLY. SEE DEMOLITION PLAN LEGEND FOR ADDITIONAL DEMOLITION REQUIREMENTS.
   USE ADEQUATE NUMBERS OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
5. SURFACE CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
6. DEMOLITION: BY CAREFUL STUDY OF THE DRAWINGS, DETERMINE THE LOCATION AND EXTENT OF SELECTIVE DEMOLITION REQUIRED.
7. VISIT THE SITE AND VERIFY THE EXTENT AND LOCATION OF SELECTIVE DEMOLITION REQUIRED.
8. CAREFULLY IDENTIFY LIMITS OF SELECTIVE DEMOLITION.
9. MARK INTERFACE SURFACES AS REQUIRED TO ENABLE WORKMAN ALSO TO IDENTIFY ITEMS TO BE REMOVED AND ITEMS TO BE LEFT IN PLACE INTACT.
10. PREPARE AND FOLLOW AN ORGANIZED PLAN FOR DEMOLITION AND REMOVAL OF ITEMS.
11. COMPLETELY REMOVE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED, LEAVING SURFACES CLEAN, SOLID, AND READY TO RECEIVE NEW MATERIALS SPECIFIED ELSEWHERE.
12. SALVAGE: AFTER CAREFUL REVIEW OF THE DRAWINGS SHOWING PROPOSED NEW CONSTRUCTION, IDENTIFY THOSE ITEMS THAT ARE GOOD CANDIDATES FOR RE-USE AND CAREFULLY REMOVE AND STOCKPILE THEM ON SITE IN A PROTECTED AREA.
13. DEMOLISHED MATERIALS SHALL BE CONSIDERED TO BE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED FROM THE JOB SITE, UNLESS OTHERWISE DIRECTED BY THE DISTRICT.
14. REPLACEMENTS: IN THE EVENT OF DEMOLITION OF ITEMS NOT SO SCHEDULED TO BE DEMOLISHED, PROMPTLY REPLACE SUCH ITEMS TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.
15. SEE ASBESTOS & LEAD IN PAINT SURVEY REPORT FOR RIO VISTA ELEMENTARY SHOOL PROVIDED BY ENVIRO-S.T.A.R. FOR REQUIRED ABATEMENT, BASED ON THE REPORT PROVIDED, MATERIALS IDENTIFIED FOR REMOVAL WILL BE REMOVED BY AN ABATEMENT CONTRACTOR PROPERLY LICENSED AND REGISTERED TO DO ASBESTOS & LEAD ABATEMENT.
16. TERMINATE ALL ELECTRICAL CONDUITS CONTAINED IN WALLS TO BE DEMOLISHED PER N.E.C. 2023. CONDUITS FEEDING DEMOLISHED AREAS, BUT CONTAINED WITHIN CONSTRUCTION TO REMAIN MAY BE ABANDONED IN PLACE.
17. ALL ITEMS INDICATED FOR DEMOLITION ON THIS SHEET ARE CONSIDERED TO BE NON-STRUCTURAL. DURING DEMOLITION, EVIDENCE MAY BECOME APPARENT OF A LOAD-BEARING ITEM WHICH IS SHOWN TO BE DEMOLISHED. CONTRACTOR SHALL NOT REMOVE ANY ITEMS WHICH SHOW EVIDENCE OF CARRYING ROOF LOADS, CEILING JOIST LOADS, NOR WALLS WHICH ARE SHEATHED WITH PLYWOOD WITHOUT PRIOR APPROVAL OF THE ARCHITECT EVEN IF SUCH ITEMS ARE SHOWN TO BE DEMOLISHED HEREIN.
18. SEE PLASTER DEMOLITION & REPAIR NOTES ON 2A-911 PRIOR TO DEMOLITION OF PLASTER ASSEMBLIES

KEY PLAN



AGENCY APPROVAL DSA#

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
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San Jose, CA 95128
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TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT · MARIANA ALVARES ARGA · C-36107 · REN. 01-31-25 · STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 9, 10, 11 & 12 - DEMOLITION EXTERIOR ELEVATIONS

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

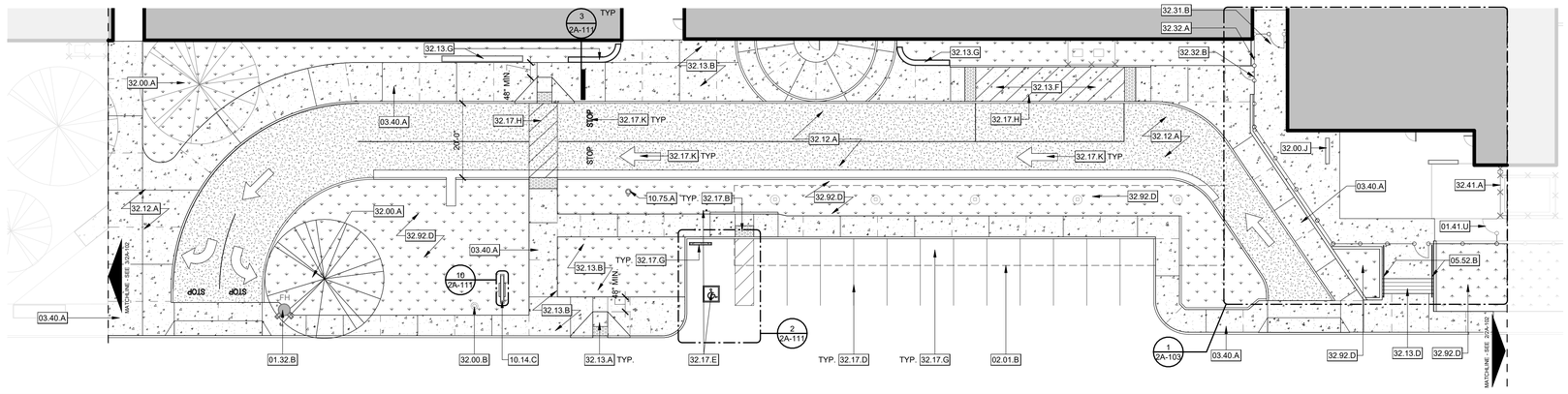
SHEET NO.

2A-033

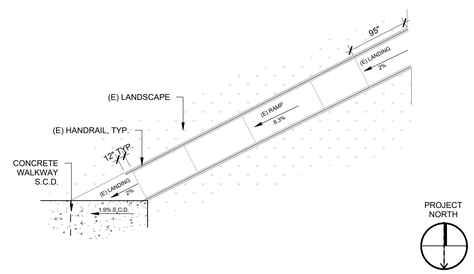
DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

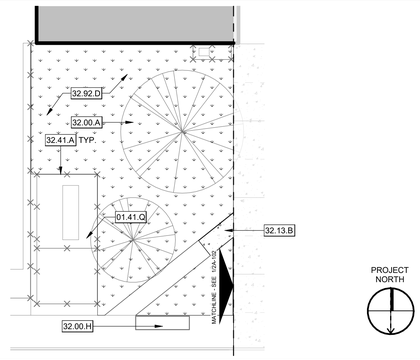
FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt
DATE PLOTTED: 9/27/2024 4:39:47 PM



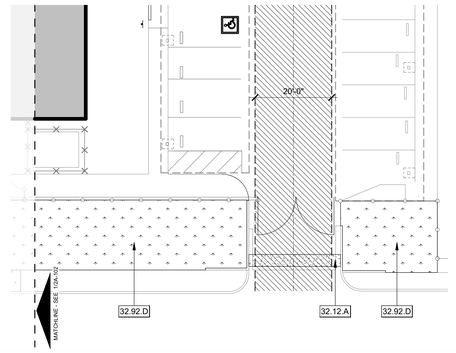
DROP OFF - ENLARGED SITE PLAN | 1/16" = 1'-0" | 1



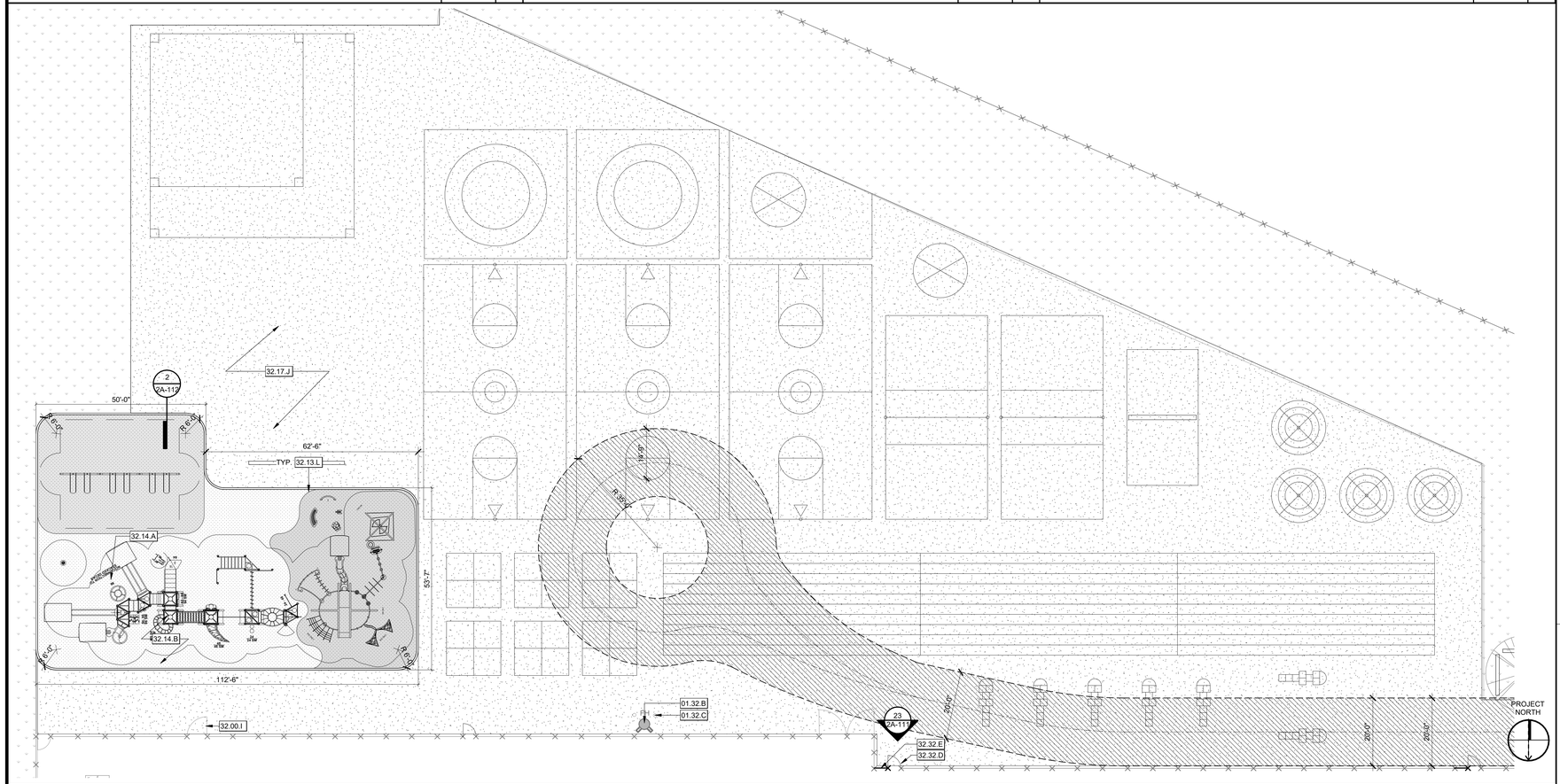
(E) ACCESSIBLE RAMP | 1/8" = 1'-0" | 6



ENLARGED SITE PLAN - EAST | 1/16" = 1'-0" | 3



ENLARGED SITE PLAN - WEST | 1/16" = 1'-0" | 2



PLAYGROUND & ASPHALT PLAY AREA | 1/16" = 1'-0" | 4

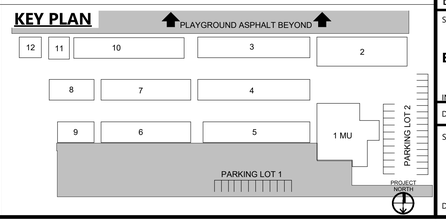
KEYNOTES

01.32.B	(E) FIRE HYDRANT
01.32.C	(E) BOLLARDS
01.41.Q	(E) PG&E SERVICE ENCLOSURE
01.41.U	(E) ACCESSIBLE ORNAMENTAL GATE INCLUDED IN INC. 1 SCOPE OF WORK. REFER TO DETAIL 25/2A-111 FOR REFERENCE ONLY
02.01.B	(E) SOLAR ARRAY COLUMNS TO REMAIN. PROTECT DURING CONSTRUCTION
03.40.A	CONCRETE PAVING PER CIVIL DRAWINGS
05.52.B	(N) STAIR HANDRAIL. REFER TO DETAIL 8/2A-111
10.14.C	(N) MARQUEE SIGN. REFER TO DETAIL 10/2A-111. SEE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR THE ENTIRE SCOPE OF WORK
10.75.A	(N) FLAGPOLE, S.C.D.
32.00.A	(E) TREE. PROTECT DURING CONSTRUCTION
32.00.B	(E) LIGHT POLE. PROTECT DURING CONSTRUCTION.
32.00.E	(E) CHAINLINK FENCE
32.00.H	(E) COVERED BUS STOP
32.00.I	(E) CHAIN LINK SERVICE GATE
32.00.J	(E) BUILDING COLUMN. PROTECT DURING CONSTRUCTION. S.C.D. FOR COMPLETE DEMOLITION AND NEW SCOPE OF WORK
32.12.A	(N) ASPHALT CONCRETE PAVING S.C.D.
32.13.A	(N) CURB RAMP S.C.D.
32.13.B	(N) CONCRETE FLATWORK. S.C.D.
32.13.D	(N) EXTERIOR CONCRETE STAIR. S.C.D. AND 18/2A-111
32.13.F	(N) LOADING ZONE. S.C.D.
32.13.G	(N) CONCRETE BENCH
32.13.L	(N) CONCRETE CURB FLUSH TO BLACKTOP PLAYGROUND
32.14.A	(N) PLAY EQUIPMENT. REFER TO 4/2A-112
32.14.B	(N) RUBBERIZED SURFACE WITH FALL PROTECTION LAYER. REFER TO 1/2A-112
32.17.B	(N) TRUNCATED DOMES BAND. S.C.D.
32.17.D	(N) PARKING STALLS STRIPING. TYP
32.17.E	(N) VAN ACCESSIBLE PARKING STALL AND SIGNAGE. REFER TO DETAIL 2/2A-111
32.17.G	(N) CONCRETE WHEEL STOP
32.17.H	(N) 4" WIDE WHITE. PAINTED STRIPES AT 3' O.C. TYP.
32.17.J	SLURRY SEAL ENTIRE BLACKTOP PLAYGROUND ALSPHALT AREA. PLAY LINES TO BE PAINTED 2" WIDES WITH REFLECTIVE COOLING WHITE COLOR.
32.17.K	(N) TRAFFIC DIRECTIONAL STRIPPING
32.31.B	(N) 4' WIDE CHAINLINK GATE
32.32.A	(N) 6'-0" TALL ORNAMENTAL FENCE
32.32.B	(E) SALVAGED ACCESSIBLE ORNAMENTAL GATE WITH PANIC HARDWARE. REFER TO DETAIL 17/2A-112
32.32.D	(N) ACCESSIBLE CHAIN LINK GATE. REFER TO DETAIL 23/2A-111
32.32.E	(N) CHAIN LINK FENCE FABRIC
32.41.A	(E) 7' HIGH CHAINLINK FENCE
32.92.D	(N) LANDSCAPING AREA. S.L.D.

LEGEND - ENLARGED SITE PLAN

- (E) BUILDING
- (N) CONCRETE PAVING
  - EXPANSION JOINT
  - CONTROL JOINT
  - 4 / 2-C4.1
- (N) ASPHALT CONCRETE PAVING OR SLURRY SEAL — 1 / 2-C4.1
- (N) RUBBERIZED SURFACE AT PLAYGROUND AREA — 1 / 2A-112
- (E) CONCRETE PAVING
- (E) ASPHALT CONCRETE PAVING
- (E) LANDSCAPING
- (N) CHAINLINK FENCE
- (E) CHAINLINK FENCE
- (N) ORNAMENTAL FENCE — 12 / 2A-112
- (E) ORNAMENTAL FENCE
- (E) FIRE ENGINE ACCESS. DSA #01-107164, 01-105316 (20'-0")

KEY PLAN



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SAN JOSE, CA 95126
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SHEET TITLE

ENLARGED SITE PLAN

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.

2A-102

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

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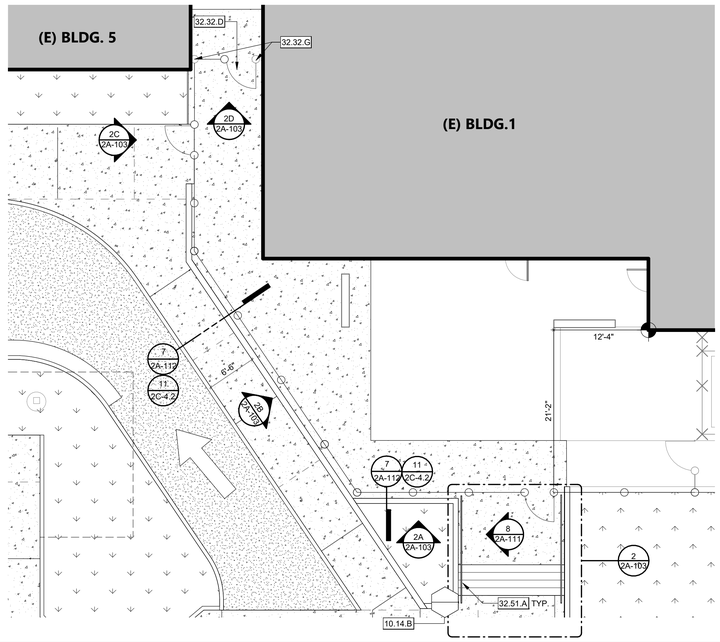
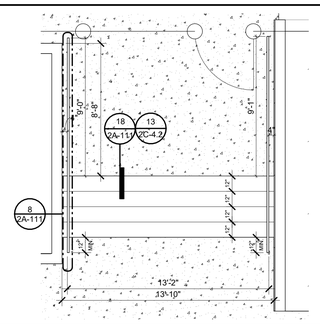
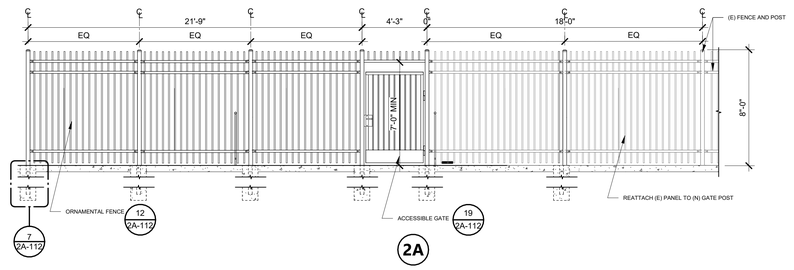


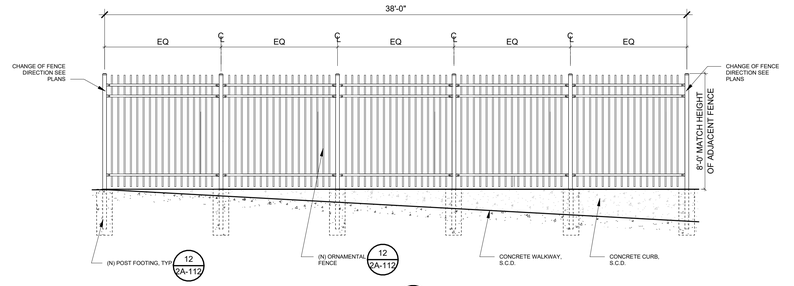
FENCE AND GATE - ENLARGED PLAN | 1/8" = 1'-0" | 1



EXTERIOR STAIR - ENLARGED PLAN | 1/4" = 1'-0" | 2

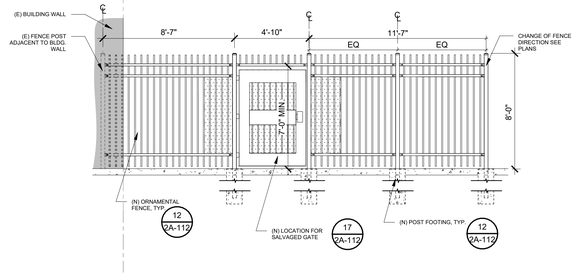


2A



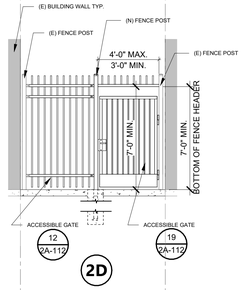
2B

5-2



2C

5-A 1-C



2D

FENCING ELEVATIONS | 1/4" = 1'-0" | 2

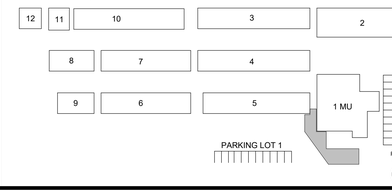
KEYNOTES

10.14.B	(N) ACCESSIBLE ROUTE SIGN AT GALVANIZED POST. REFER TO DETAIL 8/2A-925
32.32.D	(N) ACCESSIBLE CHAIN LINK GATE. REFER TO DETAIL 23/2A-111
32.32.G	(E) FENCE POST TO REMAIN
32.51.A	(N) STAIR RAILING, REFER TO DETAIL 8/2A-111

LEGEND - ENLARGED SITE PLAN

- (E) BUILDING
- (N) CONCRETE PAVING
  - EXPANSION JOINT
  - CONTROL JOINT
  - (1 / 2-C4.1)
- (N) ASPHALT CONCRETE PAVING OR SLURRY SEAL (1 / 2-C4.1)
- (N) RUBBERIZED SURFACE AT PLAYGROUND AREA (1 / 2A-112)
- (E) CONCRETE PAVING
- (E) ASPHALT CONCRETE PAVING
- (E) LANDSCAPING
- (N) CHAINLINK FENCE
- (E) CHAINLINK FENCE
- (N) ORNAMENTAL FENCE (12 / 2A-112)
- (E) ORNAMENTAL FENCE
- (E) FIRE ENGINE ACCESS. DSA #01-107164, 01-105316

KEY PLAN



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SAN JOSE, CA 95126
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FENCE & STAIR PLANS

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

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2A-103

DATE: SEPTEMBER 27, 2024

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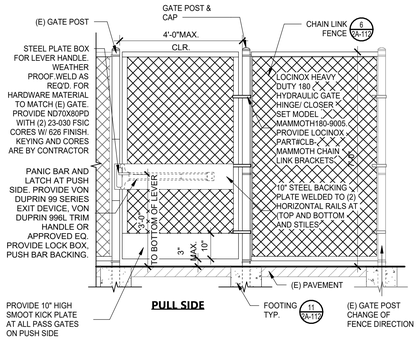
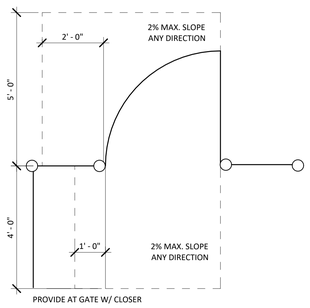




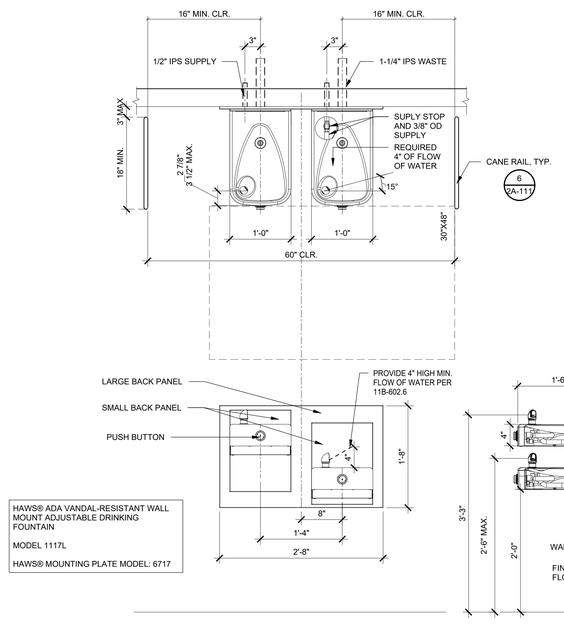
NOTE:
- NOTE THAT ANY CAVITIES CREATED BY ADDING THE KICK PLATE NEED TO BE CAPPED PER 11B-404.2.10.

- ALL GATES AND FENCES TO BE HOT DIPPED GALVENIZED.

SINGLE SWING GATES	
FENCE POSTS	PANEL HEIGHT
2-1/2" X 12 GA.	UP TO & INCLUDING 6' HEIGHT
3" X 12 GA.	OVER 6' UP TO & INCLUDING 8' HEIGHT
GATE LEAF	OVER 6' UP TO & INCLUDING 8'
UP TO 4'	3" X 12 GA.
4'1" TO 6'	4" X 11 GA.
6'1" TO 8'	6" X 3/16" GA.

21.12.14 - 00000

CHAIN LINK GATE | 1/2" = 1'-0" | 23

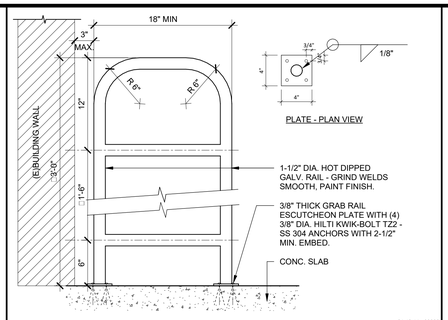


HAWS® ADA VANDAL-RESISTANT WALL MOUNT ADJUSTABLE DRINKING FOUNTAIN

MODEL 1117L

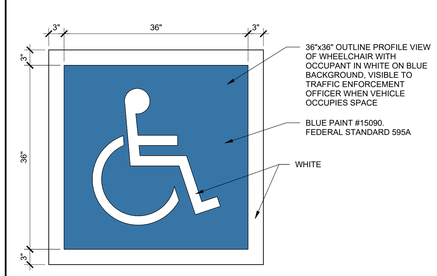
HAWS® MOUNTING PLATE MODEL: 6717

WALL MOUNTED DRINKING FOUNTAIN | 1" = 1'-0" | 12

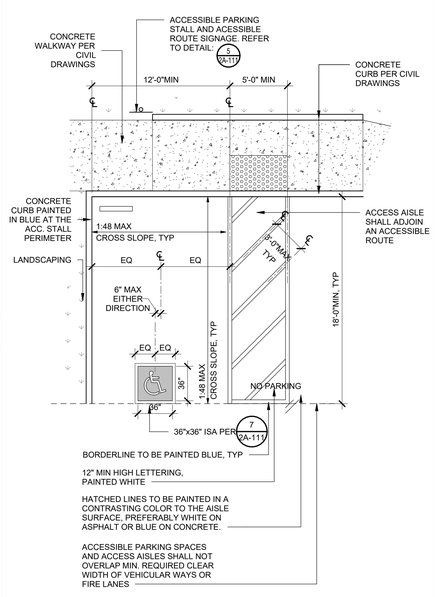


21.12.14 - 00000

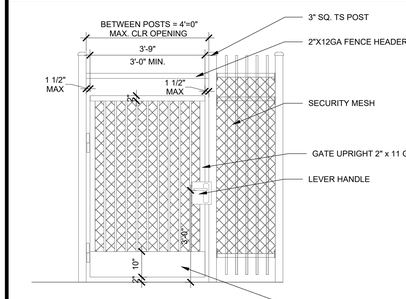
(N) DRINKING FOUNTAIN CANE RAIL | 1 1/2" = 1'-0" | 6



ACCESSIBLE PARKING SYMBOL | 1" = 1'-0" | 7

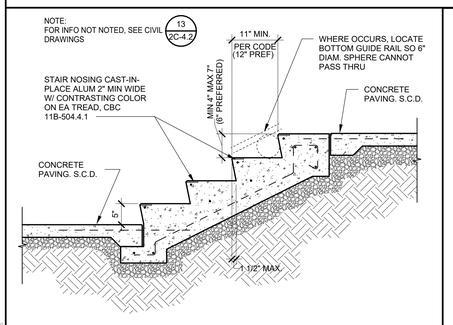


ADA PARKING LOT STRIPING | 3/16" = 1'-0" | 2

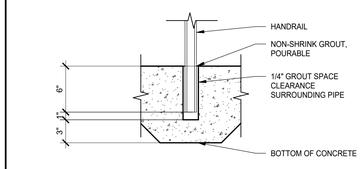


NOTE: THIS DETAIL IS TO DEMONSTRATE COMPLIANCE ONLY. PART OF INC 1 SCOPE OF WORK.

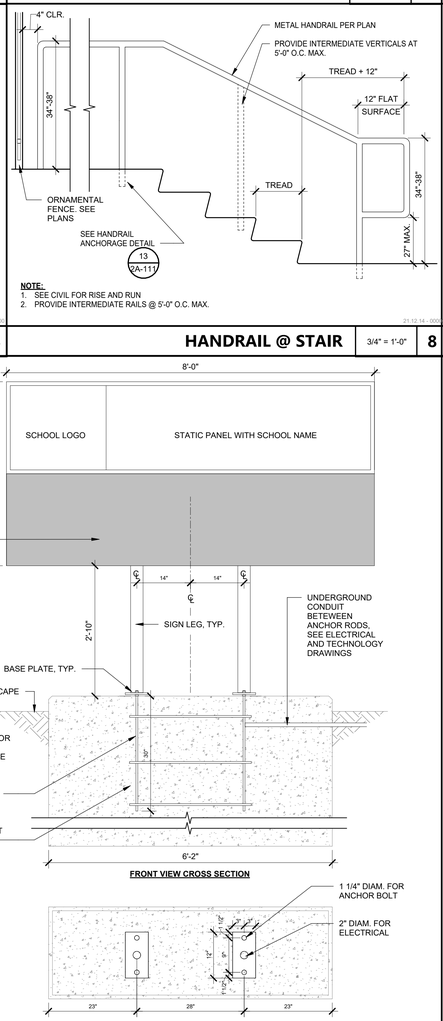
(E) ACCESSIBLE ORNAMENTAL GATE | 1/2" = 1'-0" | 25



EXTERIOR CONCRETE STAIR | 3/4" = 1'-0" | 18



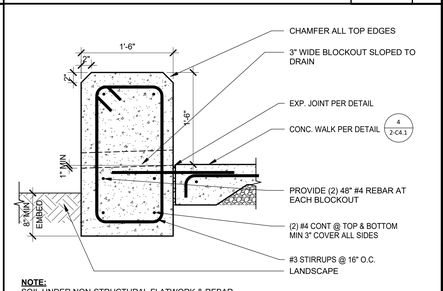
HANDRAIL ANCHORAGE @ FTG. | 1 1/2" = 1'-0" | 13



NOTE:
1. SEE CIVIL FOR RISE AND RUN
2. PROVIDE INTERMEDIATE RAILS @ 5'-0" O.C. MAX.

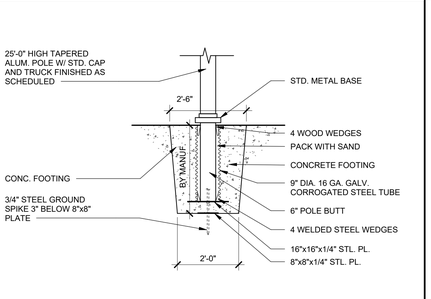
21.12.14 - 00000

HANDRAIL @ STAIR | 3/4" = 1'-0" | 8

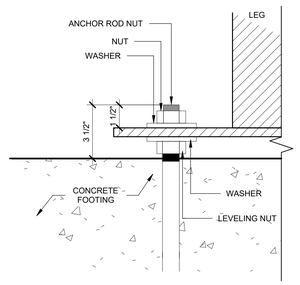


NOTE:
SOIL UNDER NON-STRUCTURAL FLATWORK & REBAR EXEMPT FROM SPECIAL INSPECTION OR TESTING.

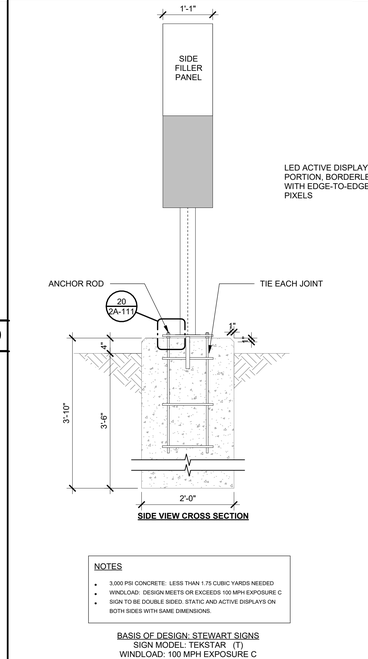
CONCRETE BENCH | 1" = 1'-0" | 3



FLAGPOLE FOOTING | 1/2" = 1'-0" | 19



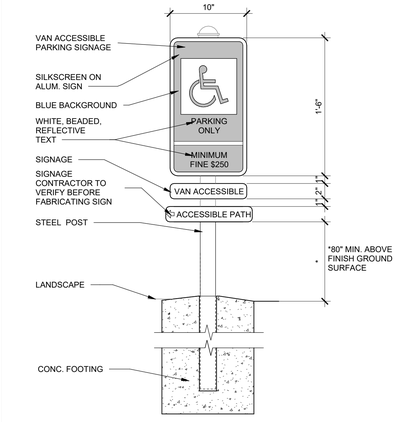
MARQUEE ANCHOR ROD DETAIL | N.T.S. | 20



NOTES
- 3,000 PSI CONCRETE: LESS THAN 1.75 CUBIC YARDS NEEDED
- WINDLOAD: DESIGN MEETS OR EXCEEDS 100 MPH EXPOSURE C
- SIGN TO BE DOUBLE SIDED. STATIC AND ACTIVE DISPLAYS ON BOTH SIDES WITH SAME DIMENSIONS.

BASIS OF DESIGN: STEWART SIGNS
SIGN MODEL: TEKSTAR (T)
WINDLOAD: 100 MPH EXPOSURE C

ELECTRONIC MARQUEE SIGN | N.T.S. | 10



ACC. PARKING STALL SIGN AND POST | 1 1/2" = 1'-0" | 5

AGENCY APPROVAL DSA# 01-121440

19.6

911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
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TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ VERGARA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

SITE DETAILS

INC 2

DRAWN BY: MEP JOB NUMBER: 23118.01

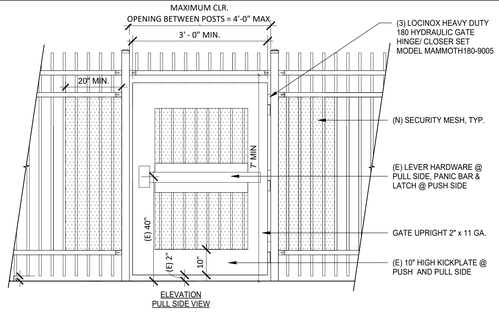
SHEET NO.

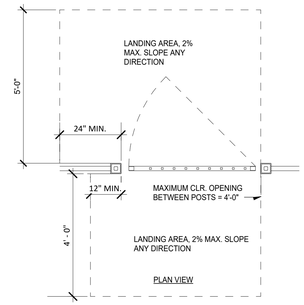
2A-111

DATE: SEPTEMBER 27, 2024

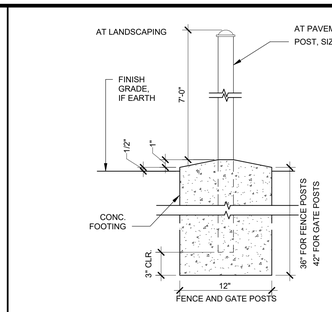
CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:39:59 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDJUSD_RIO VISTA ES MOD_INC02_A22.rvt

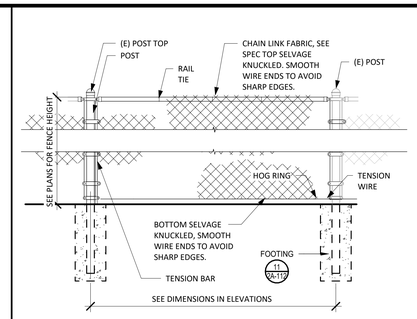




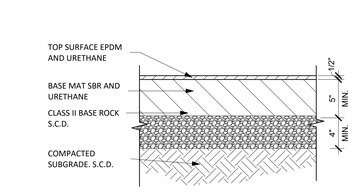
(E) SALVAGED ORNAMENTAL GATE | 1/2" = 1'-0" | 17



FENCE POST FOOTING | 1 1/2" = 1'-0" | 11



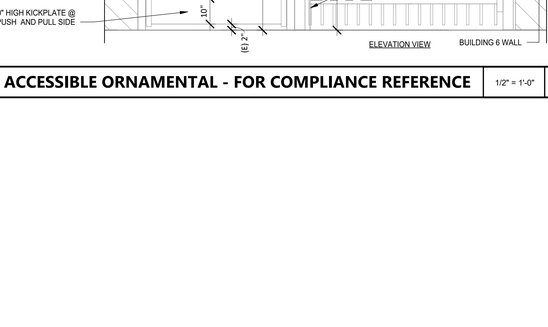
TYP. CHAINLINK FENCE ELEVATION | 1/2" = 1'-0" | 6



BASIS OF DESIGN: PLAYBOUND POURED-IN-PLACE BY SURFACE AMERICA INC.
NOTE: VERIFY AND CONFIRM ALL DIMENSIONS PER MANUFACTURER'S INSTRUCTIONS.

PLAYGROUND SURFACING | 1 1/2" = 1'-0" | 1

SECTION 'AA' N.T.S.



ELEVATION - PULL SIDE

- NOTE THAT ANY CAVITIES CREATED BY ADDING THE KICK PLATE NEED TO BE CAPPED PER 11B-404.2.10.
- ALL GATES AND FENCES TO BE HOT DIPPED GALVENIZED AND PAINTED BLACK TO MATCH EXISTING FENCE AND GATES.

SINGLE SWING GATES	
FENCE POSTS	PANEL HEIGHT
2-1/2" X 12 GA.	UP TO & INCLUDING 6' HEIGHT
3" X 12 GA.	OVER 6' UP TO & INCLUDING 8' HEIGHT
GATE LEAF	OVER 6' UP TO & INCLUDING 8'
UP TO 4'	3" X 12 GA.
4'1" TO 6'	4" X 11 GA.
6'1" TO 8'	6" X 3/16" GA.

ORNAMENTAL GATE | 1/2" = 1'-0" | 19

ORNAMENTAL FENCE | 1/2" = 1'-0" | 12

FENCE POST @ CONCRETE CURB | 1/2" = 1'-0" | 7

BASIS OF DESIGN: PLAYBOUND POURED-IN-PLACE BY SURFACE AMERICA INC.
NOTE: VERIFY AND CONFIRM ALL DIMENSIONS PER MANUFACTURER'S INSTRUCTIONS.

PLAYGROUND SURFACING @ NEW CURB | 1 1/2" = 1'-0" | 2

NOTE: EXEMPT FROM DSA STRUCTURAL SAFETY APPROVAL PER DSA IR A-22

ORNAMENTAL FENCE GATE/RAIL | 1/2" = 1'-0" | 14

PLAYGROUND EQUIPMENT NOT REVIEWED BY DSA

CODE	PLAYGROUND COMPONENT
200202202	MAX PLAY SWING (INGROUND ONLY)
200201041	NRG CLIMBER LINK
200202241	ROUNDABOUT OVERHEAD 8'
200095398	SIDE STEP CLIMBER 8'
200034346	RING CHALLENGE LADDER
200013872	CHALLENGE LADDER 8'
200013892	TURNING BAR
200079019	LEG LIFT BAR
200203416	INFLUX CLIMBER
200202247	CLATTER BRIDGE WITH SAFETY RAILS 8'
200201294	HULA LOOP CLIMBER
200110096	TIC-TAC-TOE PANEL
200007098	ANIMAL CRAWL TUNNEL
200201306	DECK TO DECK STEPS
200202568	TRANSFER STATION
200203319	CYLINDER CLIMBER
200100284	ARCHED BRIDGE WITH SAFETY RAILS 4'
200200663	TELESCOPE PANEL
200203435	ALEX'S LEMONADE STAND
200201098	DOUBLE WIDE PLASTIC SLIDE WITH DECK EXTENSION
200202105	HYPERSONIC SLIDE
200203124	QUANTUM II SPIRAL
200203589	KB SILO SCRAMBLE WITH SINGLE ENCLOSURE - 8FT DECK
200202482	TILTED ROCK WALL
200201866	STEEL MESH SWOOSH ROOF
200201539	STAND-N-SPIN
200203729	NRG X HUB WITH LASER CHALLENGE
200092591	STEPPING STONES
200203437	CONCERTO TALL CHIMES
200203444	CONCERTO S-CONGAS
200203440	CONCERTO SPIN CABASAS MEDIUM
200203438	CONCERTO VIBES
200203574	POST WHEEL PLASTIC
200203447	KB CULVERT CLIMBER 24"
200203732	NRG DOUBLE ARCH HUB WITH CLIMB AND SLIDE
200202897	AGILITY PODS
200203739	NRG WEBWALL STEPPER (2023)
200201292	INFINITY FLEX
200203738	NRG OVERHEAD RUNGS, INLINE, RINGS (2023)
200203740	NRG FREESTYLE RING ALLEY
200202989	2 UP HUB
200202893	FLOATING POMMELS
200202887	SOLO POD
200095647	SIDE STEP CLIMBER 4' (INGROUND ONLY)

PLAYGROUND COMPLIANCE AND NOTES:

COMPLIANCE STANDARDS:

1. MEETS FINAL ACCESS BOARD REGULATIONS.
2. CPSC HANDBOOK FOR PUBLIC PLAYGROUND SAFETY.
3. ASTM F1487 - PLAYGROUND EQUIPMENT FOR PUBLIC USE.
4. PLAYGROUND EQUIPMENT SHALL COMPLY WITH CBC **11B-240** AND ITS SUB-SECTIONS AS APPLICABLE **& 11B-1008**. GROUND SURFACE MUST COMPLY WITH **11B-1008.2.6.**

CERTIFICATION:

1. PLAY COMPONENTS IDENTIFIED ARE IPEMA CERTIFIED.
2. LAYOUT CONFORMS TO **ASTM F1487** REQUIREMENTS.

GENERAL NOTES:

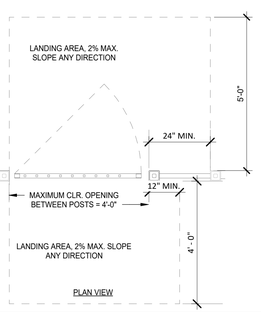
1. ALL DECK HEIGHTS MEASURED FROM TOP OF GROUND COVER.
2. FALL-ABSORBING GROUND COVER REQUIRED UNDER AND AROUND ALL PLAY EQUIPMENT.
3. MINIMUM RECOMMENDED FALL ZONE AROUND THE ENTIRE PLAY STRUCTURE TO BE FREE OF ALL TRIPPING OR COLLISION HAZARDS.
4. FOR ACCESSIBILITY, APPROPRIATE SURFACING MUST BE UTILIZED IN APPLICABLE AREAS.

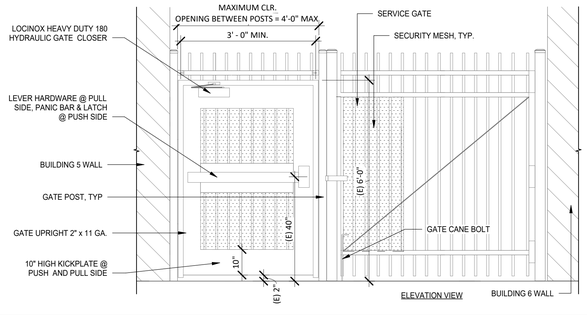
AGE GROUP: 5-12		
ELEVATED PLAY ACTIVITIES - TOTAL: 17		
ELEVATED PLAY ACTIVITIES ACCESIBLE BY TRANSFER:	11 REQ'D	9
ELEVATED PLAY ACTIVITIES ACCESIBLE BY RAMP:	0 REQ'D	0
GROUND LEVEL ACTIVITY TYPE:	9 REQ'D	3
GROUND LEVEL QUANTITY:	21 REQ'D	6

PLAYGROUND EQUIPMENT | 1 1/2" = 1'-0" | 4

NOTE: RAILING @ BOTH SIDES OF ALL RAMP

ACCESSIBLE RAMP | 3/4" = 1'-0" | 5





(E) ACCESSIBLE ORNAMENTAL - FOR COMPLIANCE REFERENCE | 1/2" = 1'-0" | 20

ORNAMENTAL FENCE GATE/RAIL | 1/2" = 1'-0" | 14

PLAYGROUND EQUIPMENT | 1 1/2" = 1'-0" | 4

AGENCY APPROVAL DSA# 01-121440

911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
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LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ ZERGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

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611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

SITE DETAILS

INC.2

DRAWN BY: DV JOB NUMBER: 23118.01

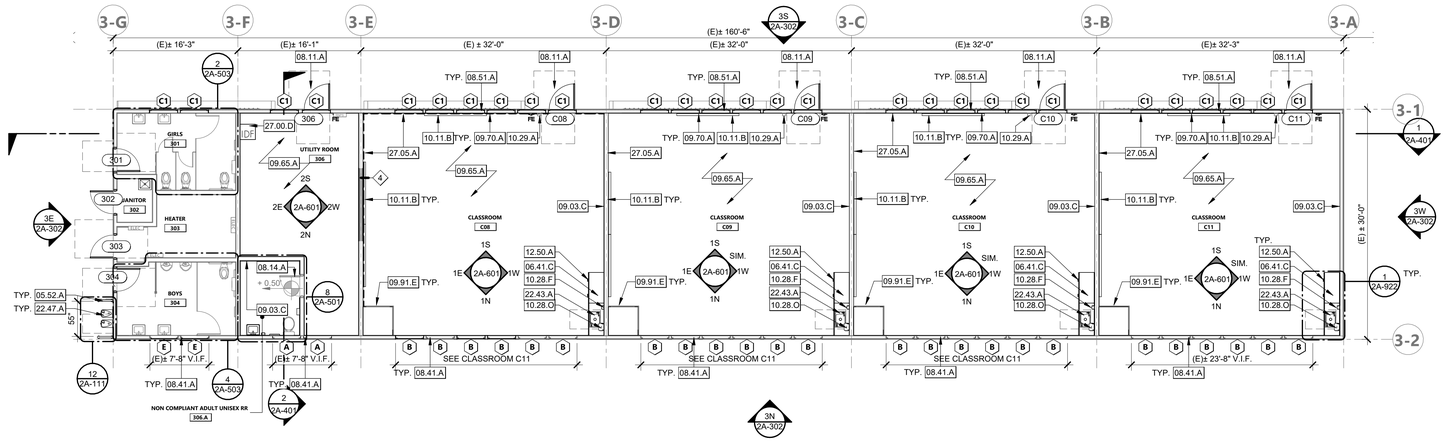
SHEET NO.

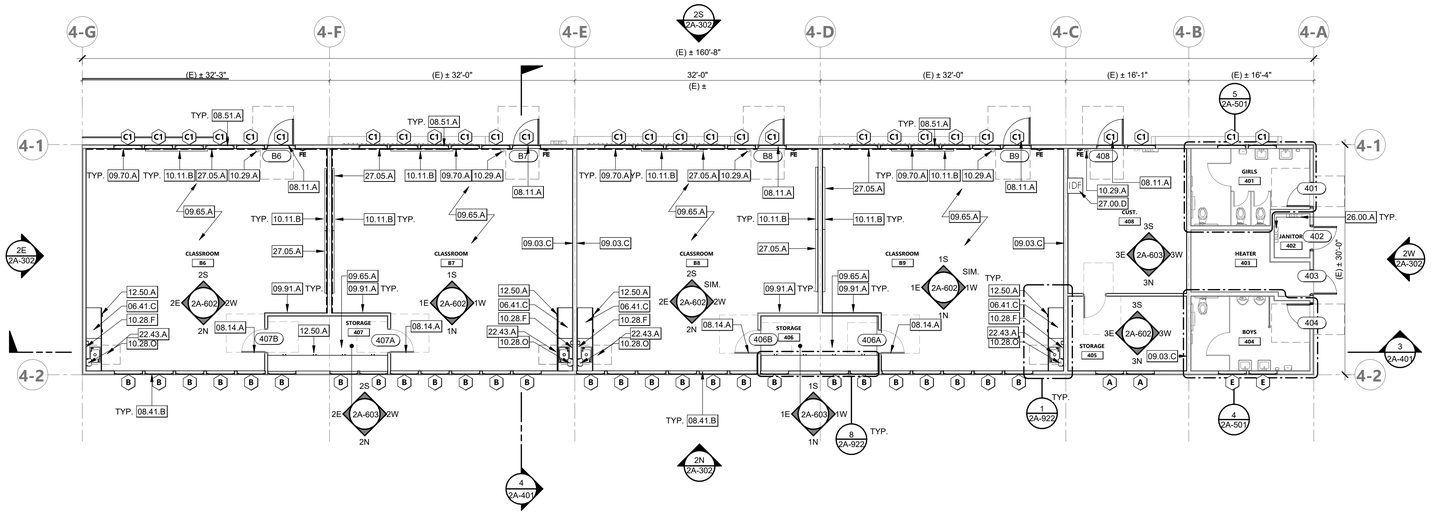
2A-112

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:40:01 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt





PROJECT NORTH

FLOOR PLAN - BUILDING 3 | 1/8" = 1'-0" | 1

PROJECT NORTH

FLOOR PLAN - BUILDING 4 | 1/8" = 1'-0" | 2

KEYNOTES

05.52.A	(N) CANE DETECTION RAILING
06.41.C	PLASTIC LAMINATED COUNTERTOP 6" BACKSPLASH, TYP.
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.14.A	(N) HARDWARE AT (E) DOOR. DOOR AND FRAME TO BE PAINTED. SEE DOOR SCHEDULE.
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.03.C	APPLY SKIM COAT TO (E) SURFACES WHERE TACKABLE, CASEWORK, AND OTHER ITEMS ATTACHED TO THE WALLS HAVE BEEN DEMOLISHED TO ENSURE A CLEAN AND SMOOTH SURFACE FOR INTERIOR PAINTING.
09.65.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.70.A	(N) TACKABLE WALL PANELS
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
09.91.E	(N) PAINT AT EXISTING HVAC HOUSING AND DUCTWORK TO MATCH WALL COLOR, COVER AND PROTECT VENTS DURING PAINTING. SEE FINISH SCHEDULE
10.11.B	(N) WALL MOUNTED WHITEBOARD PER 6/2A-921
10.28.F	(N) WALL MOUNTED HAND SOAP DISPENSER
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER
10.29.A	SAVALGED MOTION-ACTIVATED HAND SANITIZER DISPENSER TO BE MOUNTED AT 40" AFF.
12.50.A	(N) PLASTIC LAMINATED FACED ARCHITECTURAL CABINETS
22.43.A	(N) ACCESSIBLE SINK. FOR ADULTS & AGES 9-12 REFER TO DETAIL 1/2A-921. FOR AGES 5-8 REFER TO DETAIL 2/2A-921. S.MP.D.
22.47.A	(N) HI-LOW ACCESSIBLE DRINKING FOUNTAIN. REFER TO DETAIL 12/2A-111
26.00.A	(E) ELECTRICAL PANEL. S.E.D.
27.00.D	(N) IDF CABINET. S.T.D.
27.05.A	(N) SURFACE RACEWAY. S.T.D.

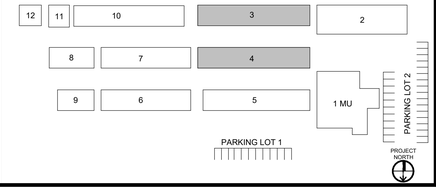
FLOOR PLAN GENERAL NOTES

1. ALL INTERIOR CONSTRUCTION ON THIS PROJECT IS DESIGNATED "AIRTIGHT" FOR THE PURPOSES OF SOUND ISOLATION AND NOISE CONTROL. THE REQUIREMENTS FOR AIRTIGHT CONSTRUCTION INCLUDE, BUT ARE NOT LIMITED TO, THE REQUIREMENTS DESCRIBED IN THE SPECIFICATIONS AND THE DETAILS SHOWN ON DRAWING SHEET A-901. ALL NECESSARY PRODUCTS AND DETAILING SHALL BE PROVIDED TO ACHIEVE AIRTIGHT/LEAKPROOF CONSTRUCTION, WHETHER OR NOT THOSE PRODUCTS, OR DETAILS, ARE SPECIFICALLY DESCRIBED OR SHOWN IN THE PROJECT DOCUMENTS.
2. FURNITURE N.I.C.
3. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR CENTERLINE OF COLUMN.
4. ALL EXPOSED STEEL TO BE GALVANIZED AND PAINTED.
5. ALL EXPOSED PIPES, STRUCTURE, AND CONDUIT TO BE PAINTED.
6. FOR WALL TYPES SEE SHEET 1A-911.

FLOOR PLAN LEGEND

- ROOM NAME / ROOM NUMBER
- WALL TYPE TAG
- DOOR TYPE TAG
- WINDOW TYPE TAG
- (E) ELECTRICAL PANEL, S.E.D.
- PANIC HARDWARE
- FIRE EXTINGUISHER (FE)
- (N) PARTITION AND INFILL WALL
- (E) WALL
- (E) WALL TO BE DEMOLISHED
- (E) 1 HR RATED WALL

KEY PLAN



AGENCY APPROVAL DSA#

196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
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REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
BLDG 3 & 4 - FLOOR PLAN

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.
2A-201

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

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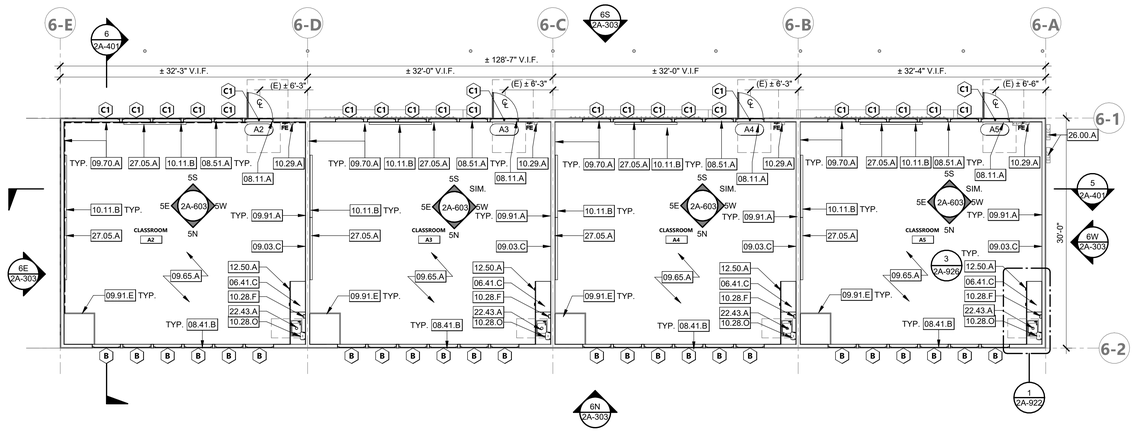
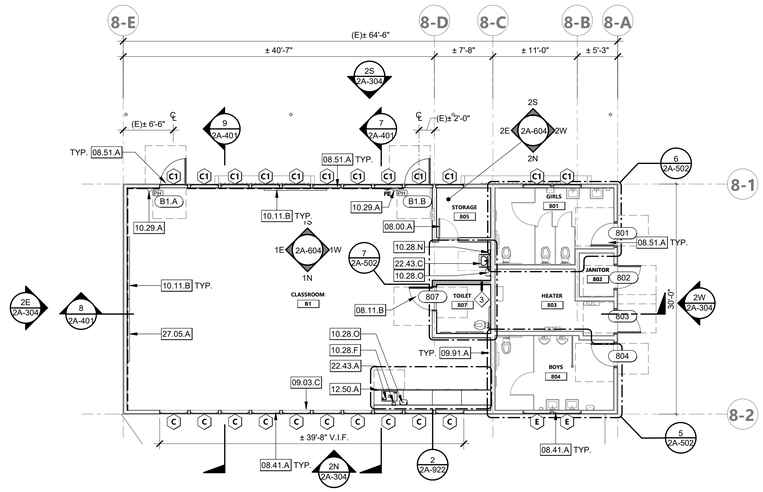


PROJECT NORTH

FLOOR PLAN - BUILDING 6

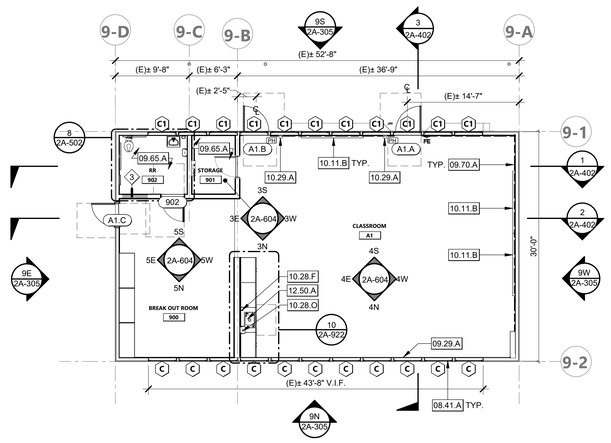
1/8" = 1'-0" | 1



PROJECT NORTH

FLOOR PLAN - BUILDING 8

1/8" = 1'-0" | 2



PROJECT NORTH

FLOOR PLAN - BUILDING 9

1/8" = 1'-0" | 3

KEYNOTES

06.41.C	PLASTIC LAMINATED COUNTERTOP 6" BACKSPLASH, TYP.
08.00.A	(E) DOOR AND FRAME TO REMAIN AND BE PAINTED
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.11.B	(N) WOOD DOOR AND FRAME, PAINTED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.03.C	APPLY SKIM COAT TO (E) SURFACES WHERE TACKABLE, CASEWORK, AND OTHER ITEMS ATTACHED TO THE WALLS HAVE BEEN DEMOLISHED TO ENSURE A CLEAN AND SMOOTH SURFACE FOR INTERIOR PAINTING.
09.29.A	(N) 5/8" GYPSUM BOARD BELOW WINDOW SILL, PAINTED WHERE EXPOSED
09.65.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.70.A	(N) TACKABLE WALL PANELS
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
09.91.E	(N) PAINT AT EXISTING HVAC HOUSING AND DUCTWORK TO MATCH WALL COLOR, COVER AND PROTECT VENTS DURING PAINTING. SEE FINISH SCHEDULE
10.11.B	(N) WALL MOUNTED WHITEBOARD PER 6/2A-921
10.28.F	(N) WALL MOUNTED HAND SOAP DISPENSER
10.28.N	(N) SURFACE MOUNT SOAP AND HAND SANITIZER DISPENSERS, PER MANUFACTURER'S MOUNTING DETAILS
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER
10.29.A	SAVALGED MOTION-ACTIVATED HAND SANITIZER DISPENSER TO BE MOUNTED AT 40" AFF.
12.50.A	(N) PLASTIC LAMINATED FACED ARCHITECTURAL CABINETS
22.43.A	(N) ACCESSIBLE SINK. FOR ADULTS & AGES 9-12 REFER TO DETAIL 1/2A-921. FOR AGES 5-8 REFER TO DETAIL 2/2A-921. S.MP.D.
22.43.C	(N) ACC. WATER CLOSET PER PLUMBING DRAWINGS
26.00.A	(E) ELECTRICAL PANEL. S.E.D.
27.05.A	(N) SURFACE RACEWAY. S.T.D.

FLOOR PLAN GENERAL NOTES

1. ALL INTERIOR CONSTRUCTION ON THIS PROJECT IS DESIGNATED "AIRTIGHT" FOR THE PURPOSES OF SOUND ISOLATION AND NOISE CONTROL. THE REQUIREMENTS FOR AIRTIGHT CONSTRUCTION INCLUDE, BUT ARE NOT LIMITED TO, THE REQUIREMENTS DESCRIBED IN THE SPECIFICATIONS AND THE DETAILS SHOWN ON DRAWING SHEET A-901. ALL NECESSARY PRODUCTS AND DETAILING SHALL BE PROVIDED TO ACHIEVE AIRTIGHT/LEAKPROOF CONSTRUCTION, WHETHER OR NOT THOSE PRODUCTS, OR DETAILS, ARE SPECIFICALLY DESCRIBED OR SHOWN IN THE PROJECT DOCUMENTS.
2. FURNITURE N.I.C.
3. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR CENTERLINE OF COLUMN.
4. ALL EXPOSED STEEL TO BE GALVANIZED AND PAINTED.
5. ALL EXPOSED PIPES, STRUCTURE, AND CONDUIT TO BE PAINTED.
6. FOR WALL TYPES SEE SHEET 1A-911.

FLOOR PLAN LEGEND

- ROOM NAME / 101 — ROOM NAME / ROOM NUMBER
- A/2 — WALL TYPE TAG
- 101AA — DOOR TYPE TAG
- A — WINDOW TYPE TAG
- ELEC — (E) ELECTRICAL PANEL, S.E.D.
- PH — PANIC HARDWARE
- FE — FIRE EXTINGUISHER (FE)
- (N) PARTITION AND INFILL WALL
- (E) WALL
- (E) WALL TO BE DEMOLISHED
- (E) 1 HR RATED WALL

KEY PLAN

AGENCY APPROVAL DSA#

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
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Monterey, CA 93940
TEL (831) 218-1802

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San Ramon, CA 94582
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STRUCTURAL ENGINEER
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TEL (415) 466-2997

TECHNOLOGY ENGINEER
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TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT — MARINA ALVAREZ-ARCA — C-36107 — REN. 01-31-25 — STATE OF CALIFORNIA

REVISIONS

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SHEET TITLE

BLDG 6, 8 & 9 - FLOOR PLAN

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.

2A-202

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

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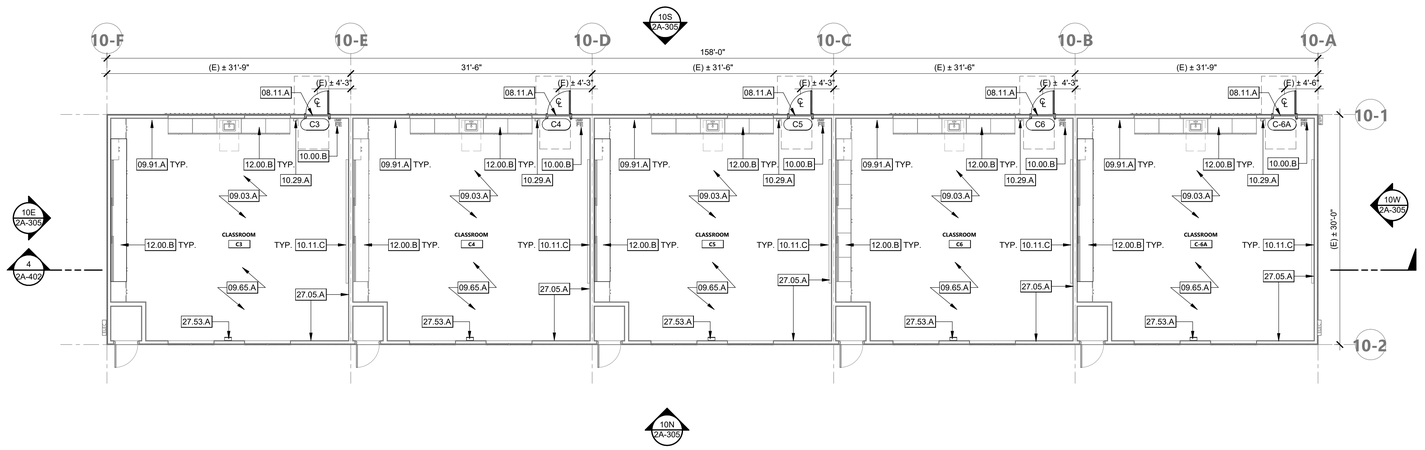
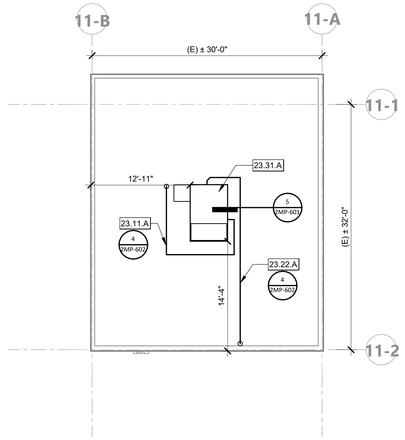
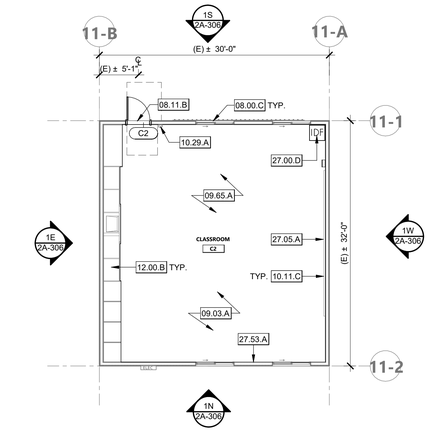


PROJECT NORTH

FLOOR PLAN - BUILDING 10 | 1/8" = 1'-0" | 3

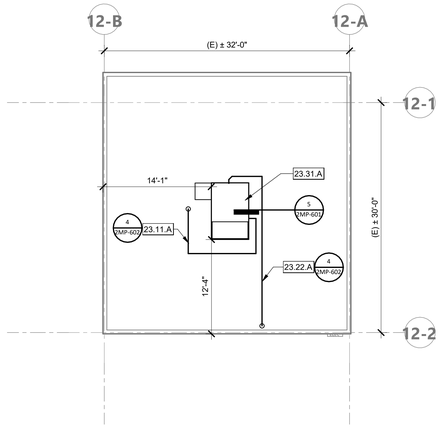


ROOF PLAN - BLDG. 11 | 1/8" = 1'-0" | 4

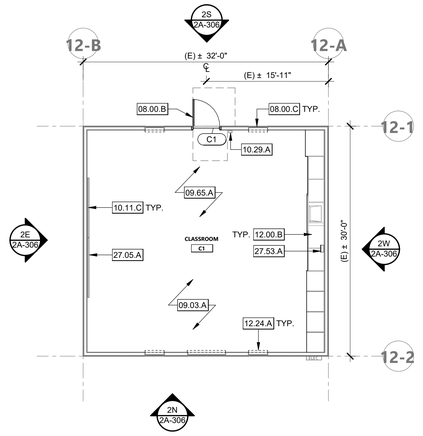


PROJECT NORTH

FLOOR PLAN - BUILDING 11 | 1/8" = 1'-0" | 1



ROOF PLAN - BLDG. 12 | 1/8" = 1'-0" | 5



PROJECT NORTH

FLOOR PLAN - BUILDING 12 | 1/8" = 1'-0" | 2

KEYNOTES

08.00.B	(E) AIR VENT. PROTECT IN PLACE DURING CEILING PAINTING.
08.00.C	(E) WINDOW TO BE PROTECTED IN PLACE. SEE ADDITIONAL NOTES ON EXTERIOR ELEVATION FOR FRAME PAINTING.
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.11.B	(N) WOOD DOOR AND FRAME, PAINTED
09.03.A	PAINT ALL INTERIOR SURFACES
09.65.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
10.00.B	(E) FIRE EXTINGUISHER TO BE REMOVED/PROTECTED AND REINSTALLED. SEE INTERIOR ELEVATIONS FOR LOCATION.
10.11.C	(E) WHITEBOARD TO BE PROTECTED IN PLACE DURING CONSTRUCTION.
10.29.A	SAVALGED MOTION-ACTIVATED HAND SANITIZER DISPENSER TO BE MOUNTED AT 40" AFF.
12.00.B	(E) CASEWORK TO BE PROTECTED IN PLACE DURING CONSTRUCTION.
12.24.A	(N) FRAME-MOUNTED DOUBLE BRACKET ROLLER SHADES ALUMINUM FASCIA, HARDWARE BRACKETS AND CHAIN PER MRF
23.11.A	GAS PIPING. S.M.D.
23.22.A	CONDESATE DRAIN PIPING. S.M.D.
23.31.A	(N) MECHANICAL UNIT PER MECHANICAL DRAWINGS
27.00.D	(N) IDF CABINET. S.T.D.
27.05.A	(N) SURFACE RACEWAY. S.T.D.
27.53.A	(N) CLOCK/SPEAKER PER TECHNOLOGY DRAWINGS

FLOOR PLAN GENERAL NOTES

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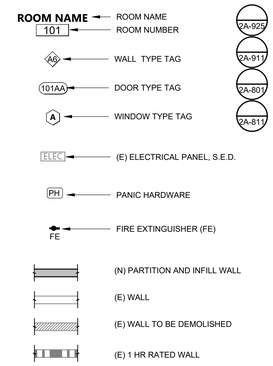
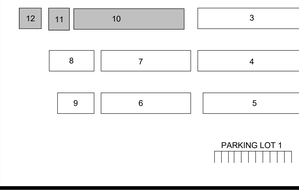
6. FOR WALL TYPES SEE SHEET 1A-911.

FLOOR PLAN LEGEND



KEY PLAN



AGENCY APPROVAL DSA#

196

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
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TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
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Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP



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Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 10, 11 & 12 - FLOOR & ROOF PLANS

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.

2A-203

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

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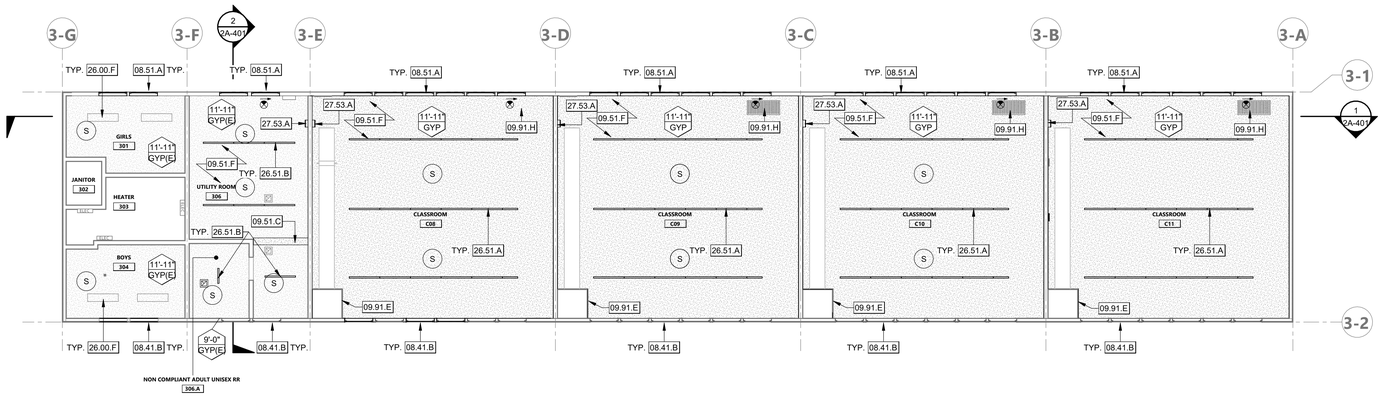
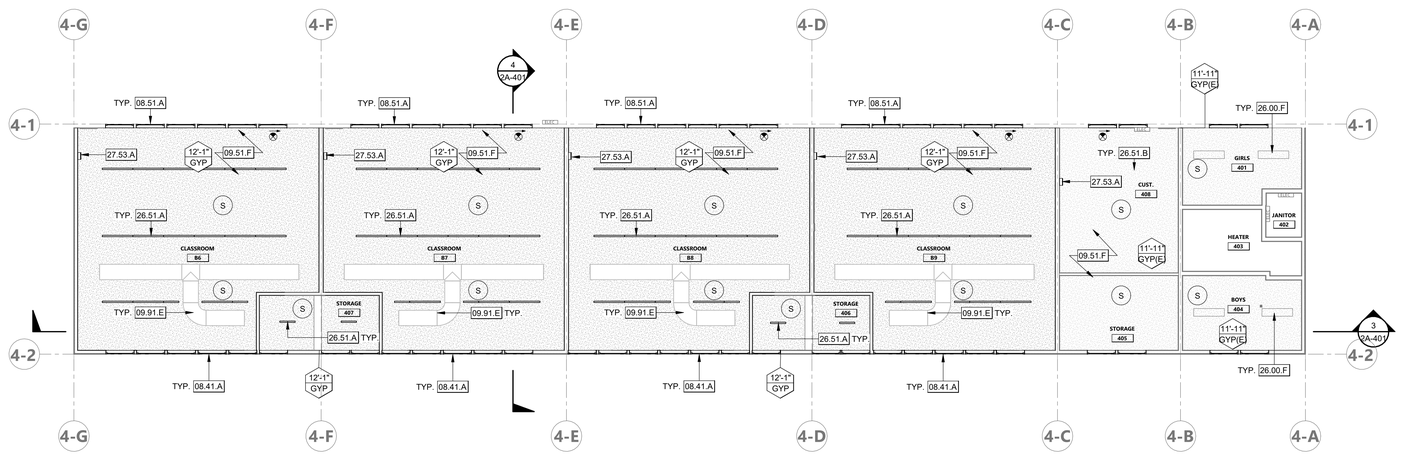


PROJECT NORTH

REFLECTED CEILING PLAN - BUILDING 3 | 1/8" = 1'-0" | 1



PROJECT NORTH

REFLECTED CEILING PLAN - BUILDING 4 | 1/8" = 1'-0" | 2

KEYNOTES

08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.51.C	PATCH, SMOOTH, AND PAINT GYP. CEILING TO MATCH ADJACENT SURFACES
09.51.F	(N) GYPSUM BOARD PANEL ATTACHED TO EXISTING ROOF FRAMING. REFER TO DETAIL 9/2A-924
09.91.E	(N) PAINT AT EXISTING HVAC HOUSING AND DUCTWORK TO MATCH WALL COLOR, COVER AND PROTECT VENTS DURING PAINTING. SEE FINISH SCHEDULE
09.91.H	(N) PAINT EXISTING AIR VENT COVER, MATCH CEILING PANEL COLOR
26.00.F	(E) LIGHTING FIXTURE TO REMAIN
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
26.51.B	(N) RECESSED LIGHT FIXTURE, S.E.D.
27.53.A	(N) CLOCK/SPEAKER PER TECHNOLOGY DRAWINGS

CEILING GENERAL NOTES

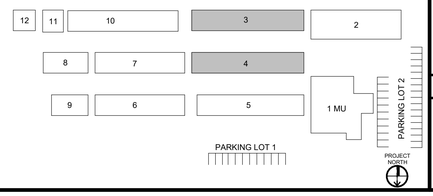
1. ANY EXPOSED DUCTS, PIPES TO BE PAINTED.
2. ANY EXPOSED STEEL TO BE GALVANIZED AND PAINTED.
3. NO SURFACE MOUNTED BACK BOXES, PIPES OR CONDUIT.
4. CEILING HEIGHT DIMENSIONS ARE APPROXIMATE. FIELD VERIFICATION OF DIMENSIONS IS REQUIRED.

LEGEND - CEILING

- 12'-0" ACT — CEILING HEIGHT ABOVE FIN. FLOOR / CEILING MATERIAL
- EXISTING GWB - FRAMED GYPSUM BOARD CEILING (GYP(E))
- NEW GWB - FRAMED GYPSUM BOARD CEILING (GYP) — 2A-924
- ROOF ACCESS HATCH
- CAN LIGHT FLUSH MOUNT FIXTURE
- SEMI RECESSED RECTANGULAR LIGHT FIXTURE
- NEW LINEAR PENDANT LIGHT FIXTURE S.E.D.
- EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS
- SUPPLY REGISTER PER MECHANICAL DRAWINGS
- EXHAUST FAN OR GRILLE PER MECHANICAL DRAWINGS
- RETURN AIR GRILLE PER MECHANICAL DRAWINGS
- (S) (N) SMOKE DETECTOR

NOTE: SYMBOLS SHOWN FOR LOCATION PURPOSES ONLY. SEE MECHANICAL, ELECTRICAL, & FIRE PROTECTION DRAWINGS FOR DETAILED INFORMATION

KEY PLAN



AGENCY APPROVAL DSA# 01-121440

196

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
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San Jose, CA 95128
TEL (408) 261-9800

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1223 High Street
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(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT — MARIANO ALVAREZ ARCA — C-36107 — REN. 01-31-25 — STATE OF CALIFORNIA

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SHEET TITLE

BLDG 3 & 4 - REFLECTED CEILING PLAN

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.

2A-211

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

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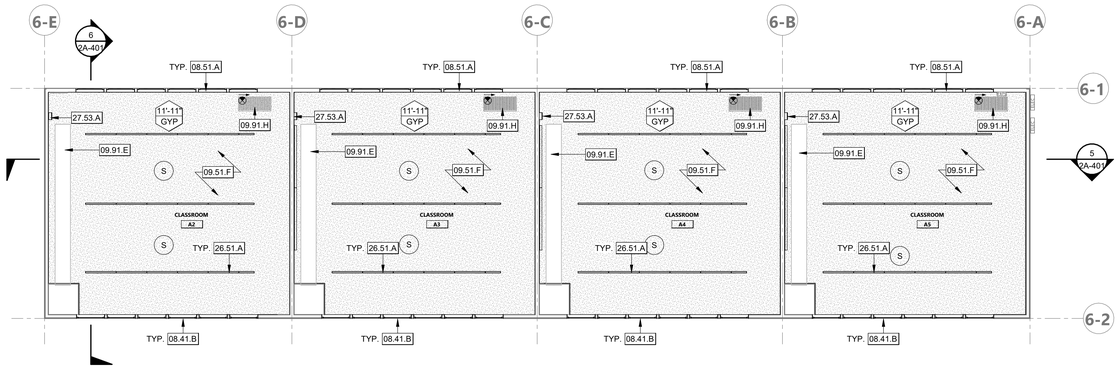
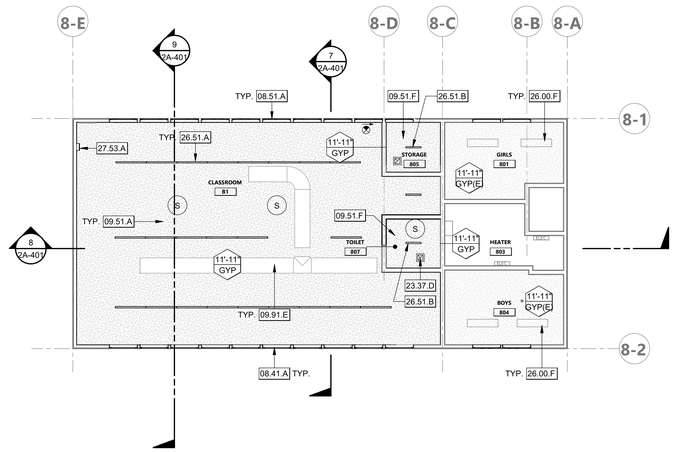


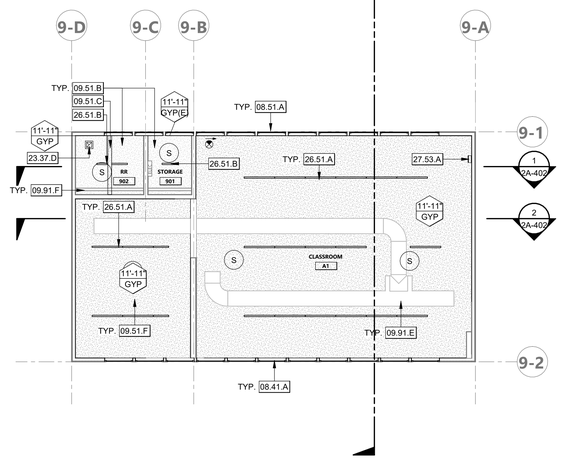
PROJECT NORTH

REFLECTED CEILING PLAN - BUILDING 6 | 1/8" = 1'-0" | 1



PROJECT NORTH

REFLECTED CEILING PLAN - BUILDING 8 | 1/8" = 1'-0" | 2



PROJECT NORTH

REFLECTED CEILING PLAN - BUILDING 9 | 1/8" = 1'-0" | 3

KEYNOTES

08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.51.A	(N) 4x8 DIRECT ATTACHED ACOUSTICAL PANEL CEILING PAINTED
09.51.B	(E) GYPSUM BOARD CEILING TO BE PAINTED AND PATCHED
09.51.C	PATCH, SMOOTH, AND PAINT GYP. CEILING TO MATCH ADJACENT SURFACES
09.51.F	(N) GYPSUM BOARD PANEL ATTACHED TO EXISTING ROOF FRAMING. REFER TO DETAIL 9/2A-924
09.91.E	(N) PAINT AT EXISTING HVAC HOUSING AND DUCTWORK TO MATCH WALL COLOR, COVER AND PROTECT VENTS DURING PAINTING. SEE FINISH SCHEDULE
09.91.F	(E) DUCTWORK TO BE PAINTED. MATCH WALL COLOR. SEE FINISH SCHEDULE
09.91.H	(N) PAINT EXISTING AIR VENT COVER, MATCH CEILING PANEL COLOR
23.37.D	(N) CEILING EXHAUST FAN PER MECHANICAL DRAWINGS
26.00.F	(E) LIGHTING FIXTURE TO REMAIN
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
26.51.B	(N) RECESSED LIGHT FIXTURE, S.E.D.
27.53.A	(N) CLOCK/SPEAKER PER TECHNOLOGY DRAWINGS

CEILING GENERAL NOTES

1. ANY EXPOSED DUCTS, PIPES TO BE PAINTED.
2. ANY EXPOSED STEEL TO BE GALVANIZED AND PAINTED.
3. NO SURFACE MOUNTED BACK BOXES, PIPES OR CONDUIT.
4. CEILING HEIGHT DIMENSIONS ARE APPROXIMATE. FIELD VERIFICATION OF DIMENSIONS IS REQUIRED.

LEGEND - CEILING

- 12'-0" ACT — CEILING HEIGHT ABOVE FIN. FLOOR / CEILING MATERIAL
- EXISTING GWB - FRAMED GYPSUM BOARD CEILING (GYP(E))
- NEW GWB - FRAMED GYPSUM BOARD CEILING (GYP) — 2A-924
- ROOF ACCESS HATCH
- CAN LIGHT FLUSH MOUNT FIXTURE
- SEMI RECESSED RECTANGULAR LIGHT FIXTURE
- NEW LINEAR PENDANT LIGHT FIXTURE S.E.D.
- EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS
- SUPPLY REGISTER PER MECHANICAL DRAWINGS
- EXHAUST FAN OR GRILLE PER MECHANICAL DRAWINGS
- RETURN AIR GRILLE PER MECHANICAL DRAWINGS
- S — (N) SMOKE DETECTOR

NOTE: SYMBOLS SHOWN FOR LOCATION PURPOSES ONLY, SEE MECHANICAL, ELECTRICAL, & FIRE PROTECTION DRAWINGS FOR DETAILED INFORMATION

KEY PLAN

AGENCY APPROVAL DSA#

196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT — MARTIN ALVAREZ JR. — C-36107 — REN. 01-31-25 — STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 6, 8 & 9 - REFLECTED CEILING PLAN

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

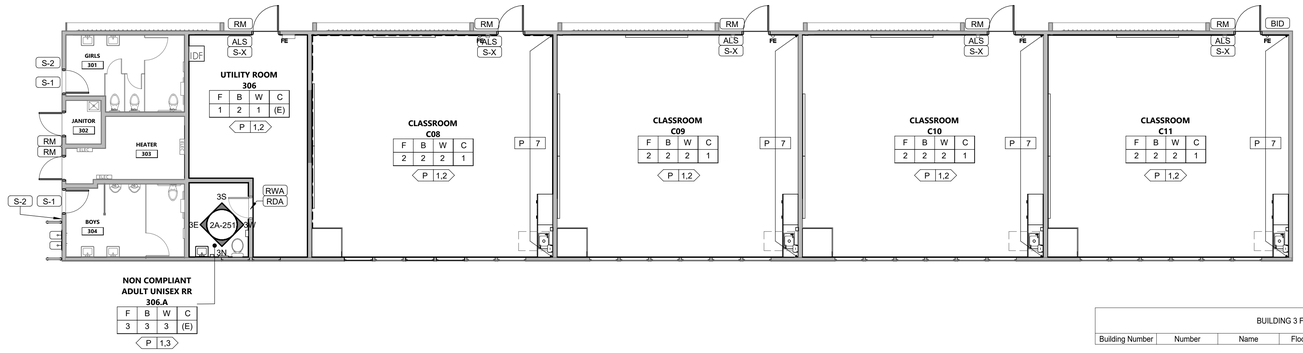
SHEET NO.

2A-212

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:40:22 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt





NOTE:

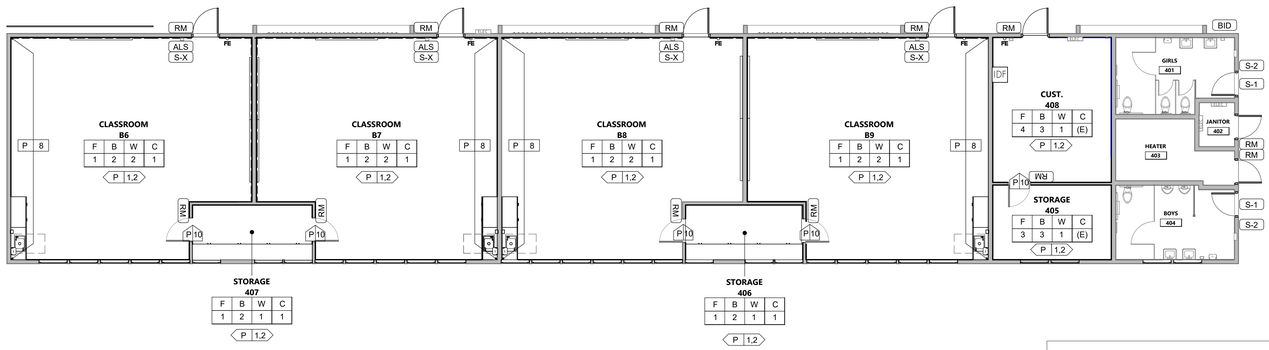
PROVIDE **2** PORTABLE ASSISTIVE LISTENING SYSTEMS, EACH WITH A TRANSMITTER AND A MINIMUM OF **2** RECEIVERS, FOR USE IN THE CLASSROOMS.

THE ASSISTIVE LISTENING RECEIVERS AND TRANSMITTER SHALL BE STORED IN THE SCHOOL SITE ADMINISTRATION OFFICE UNTIL REQUESTED, SEE SPECIFICATION SECTION 27 51 26

BUILDING 3 FINISH SCHEDULE

Building Number	Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
BUILDING 3	C11	CLASSROOM	2	2	2	1
BUILDING 3	C10	CLASSROOM	2	2	2	1
BUILDING 3	C09	CLASSROOM	2	2	2	1
BUILDING 3	C08	CLASSROOM	2	2	2	1
BUILDING 3	306	UTILITY ROOM	1	2	1	(E)
BUILDING 3	302	JANITOR	(E)	(E)	(E)	(E)
BUILDING 3	304	BOYS	(E)	(E)	(E)	(E)
BUILDING 3	301	GIRLS	(E)	(E)	(E)	(E)
BUILDING 3	303	HEATER	(E)	(E)	(E)	(E)
BUILDING 3	306.A	NON COMPLIANT ADULT UNISEX RR	3	3	3	(E)

BLDG. 3 - FINISH KEY PLAN | 1/8" = 1'-0" | 1





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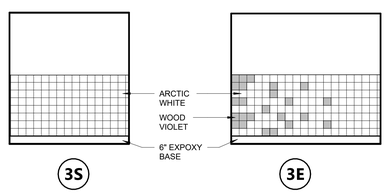
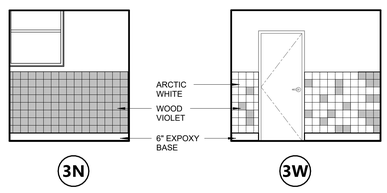
BUILDING 4 FINISH SCHEDULE

Building Number	Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
BUILDING 4	407	STORAGE	1	2	1	1
BUILDING 4	405	STORAGE	3	3	1	(E)
BUILDING 4	B8	CLASSROOM	1	2	2	1
BUILDING 4	B9	CLASSROOM	1	2	2	1
BUILDING 4	408	CUST.	4	3	1	(E)
BUILDING 4	B6	CLASSROOM	1	2	2	1
BUILDING 4	B7	CLASSROOM	1	2	2	1
BUILDING 4	406	STORAGE	1	2	1	1
BUILDING 4	404	BOYS	(E)	(E)	(E)	(E)
BUILDING 4	403	HEATER	(E)	(E)	(E)	(E)
BUILDING 4	401	GIRLS	(E)	(E)	(E)	(E)
BUILDING 4	402	JANITOR	(E)	(E)	(E)	(E)

BLDG. 4 - FINISH KEY PLAN | 1/8" = 1'-0" | 2





NOTE: INTERIOR ELEVATIONS SHOWN ON FINISH PLANS ARE ONLY TO DEMONSTRATE THE PROPOSED TILE LAYOUT. FOR PLUMBING FIXTURES AND RR ACCESSORIES SEE RESTROOM PLAN ENLARGEMENTS.

BLDG. 3 - 306.A RR - WALL TILE LAYOUT | 1/4" = 1'-0" | 4

LEGEND - RESTROOM TILE COLOR

- OCEAN BLUE 1049 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- SEA BREEZE 1174 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- SUNFLOWER DH50 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6 DH50
- ORANGE BURST 1097 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- KEY LIME 1098 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- EMERALD 0115 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- ELECTRIC BLUE 1194 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- ARTIC WHITE 0190 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6 ARTIC WHITE 0190
- WOOD VIOLET 1467 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6

LEGEND - SIGNAGE GENERAL NOTES

1. ALL SIGNS ON GLAZING TO BE MOUNTED BACK TO BACK. SEE DETAIL 5/2A-925
2. ROOM/ EXIT SIGN LOCATIONS
   - A. SINGLE DOOR - MOUNT ON LATCH SIDE OF THE DOOR
   - B. DOUBLE DOOR - MOUNT ON RIGHT SIDE OF THE DOOR
   - C. WHERE NO WALL SPACE IS AVAILABLE ON LATCH SIDE, INCLUDING @ DL DOORS, SIGNS SHALL BE PLACED ON NEAREST ADJACENT WAL PREFERABLY ON THE RIGHT (CBC Ii7B.5.7)
   - D. INSTALL AT 60" AFF MAX. TO THE BOTTOM OF FIRST TEXT LINE.
   - E. SIGNAGE ATTACHMENT TO BE WALL W/ D.F TAPE AND SILICONE TYPICAL
     a. OPTIONAL ALTERNATIVE AT PLASTER EXTERIOR: FASTENER ATTACHMENT WITH SS TAMPER-RESISTANT SCREW HEADS IF APPROVED BY OWNER.
3. SIGNAGE MATERIAL
   - A. ALL SIGNS TO BE 1/4" ACRYLIC PLASTIC
     a. NON-GLARE FINISH
   - B. MOUNTING ON DF TAPE WITH SILICONE AS REQUIRED.
   - C. FIGURES TO BE ETCHED WITH ENAMEL FILLED
4. SIGNAGE COLORS
   - A. LETTERS TO CONTRAST WITH BACKGROUND COLOR TO CONTRAST (70% MIN.) NON-GLARE FINISH. COLOR TBD.
   - B. BACKGROUND COLOR TBD TO MATCH SITE STANDARD

1. ATTACHED CARPET SHALL HAVE A FIRM CUSHION, PAD, OR BACKING. CARPET OR CARPET TILE SHALL FEATURE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. THE PILE HEIGHT SHOULD NOT EXCEED 2 INCHES (12.7 MM). EXPOSED EDGES OF CARPET MUST BE FASTENED TO FLOOR SURFACES AND EQUIPPED WITH TRIM ALONG THE ENTIRE LENGTH, COMPLYING WITH SECTION 11B-303.

LEGEND - SIGNAGE SYMBOLS

RM	ROOM NAME / NUMBER SIGN, SEE DETAILS	2/2A-925
S-1	RESTROOM ROOM DOOR SYMBOL, SEE DETAILS	18/2A-925
S-2	RESTROOM ROOM WALL SIGN, SEE DETAILS	13/2A-925
S-X	TACTILE "EXIT" SIGN (INTERIOR), SEE DETAILS	7/2A-925
S-XR	TACTILE "EXIT ROUTE" SIGN (INTERIOR), SEE DETAILS	10/2A-925
S-M	"MAXIMUM OCCUPANCY" SIGN (INTERIOR), SEE DETAIL	16/2A-925
ALS	ASSISTIVE LISTENING SIGN, SEE DETAIL	9/2A-925
RWA	RESTROOM WALL - ALL-GENDER	13/2A-925
RDA	RESTROOM DOOR - ALL-GENDER	18/2A-925
BID	BUILDING ID SIGN	20/2A-925

FINISHES GENERAL NOTES

1. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING MATERIAL DIMENSIONS AT EACH PARTITION IN THE FIELD AS RELATED TO THE OVERALL FINAL PARTITION DIMENSION, PRIOR TO DOOR AND WINDOW SUBMITTALS.
2. FOR MATERIAL FINISHES AND LOCATION OF FINISHES, REFER TO FINISH PLAN, INTERIOR ELEVATIONS AND FINISH SCHEDULE.
3. SPECIFICATIONS SHALL SUPERCEDE DIMENSIONS IN THIS DETAIL AS NECESSARY; CONTRACTOR TO VERIFY.

FLOOR FINISHES (F)

(F)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING FLOOR			MATCH EXISTING ADJACENT
1	LUXURY VINYL TILE	ID LATITUDE - LAUREL OAK		TARKETT
2	LVT (MULTICOLOR)	SEE TYPICAL CLASSROOM LVT LAYOUT LEGEND		TARKETT
3	EPOXY FLOORING	TBD		6" COVE BASE, DUR-A-FLEX

BASE FINISHES (B)

(B)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING BASE			MATCH EXISTING ADJACENT
2	4" RUBBER BASE	BLACK		JOHNSONITE
3	6" EPOXY COVE BASE	BLACK		6" COVE BASE, DUR-A-FLEX

WALL FINISHES (W)

(W)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING WALL			MATCH EXISTING ADJACENT
1	GYPSUM WALL BOARD	REFER TO FINISH PLANS		SEE FLOOR PLAN FOR DETAILS
2	TACKABLE WALL PANEL 7' HIGH	QUARTZ		CLARIDGE - TACK WALL
3	CERAMIC WALL TILE	COLOR WHEEL - 7 COLORS TOTAL	DALTILE	COLOR WHEEL - RR AGES 5-8
4	CERAMIC WALL TILE	COLOR WHEEL - 2 COLORS TOTAL	DALTILE	COLOR SHEEL - RR AGES 9-12
5	CERAMIC WALL TILE	COLOR WHEEL - 2 COLORS TOTAL	DALTILE	COLOR WHEEL - RR ADULT

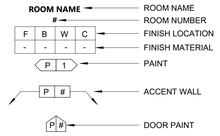
CEILING FINISHES (C)

(C)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARK
(E#)	EXISTING CEILING			MATCH EXISTING ADJACENT
1	5/8" GYP BOARD	P-2 (SEE PAINT SCHEDULE)		

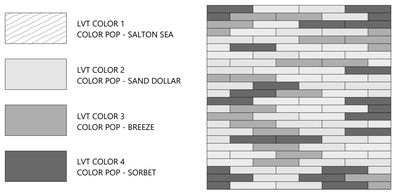
PAINT (P)

(P)	DESCRIPTION	COLOR	SPECIFICATIO N SECTION	REMARK
(E#)	EXISTING PAINT			MATCH EXISTING ADJACENT
1	INTERIOR WALL PAINT	SW7757 HIGH REFLECTIVE WHITE	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
2	INTERIOR CLASSROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF. FLAT	SHERWIN WILLIAMS
3	INTERIOR RESTROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF. SEMIGLOSS	SHERWIN WILLIAMS
4	INTERIOR ACCENT WALL(OFFICE)	SW7631 CITY LOFT	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
5	INTERIOR ACCENT WALL (OFFICE)	SW9137 NIEBLA AZUL	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
6	INTERIOR ACCENT WALL (OFFICE)	SW6191 CONTENDED	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
7	INTERIOR ACCENT WALL (CLASSROOM)	SW9046 GENTLE AQUAMARINE	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
8	INTERIOR ACCENT WALL (CLASSROOM)	SW6716 DANCING GREEN	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
9	(ACCENT)	TBD		SHERWIN WILLIAMS
10	INTERIOR DOOR FRAME PAINT	SW7757		SHERWIN WILLIAMS

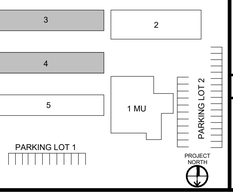
FINISHES PLAN



TYPICAL CLASSROOM LVT LAYOUT (F2)



KEY PLAN



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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

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PROFESSIONAL STAMP

LICENSED ARCHITECT — MARIANA ALVAREZ ARCA — C-36107 — REN. 01-31-25 — STATE OF CALIFORNIA

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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

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SHEET TITLE

BLDG 3 & 4 - FINISH & SIGNAGE PLAN

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

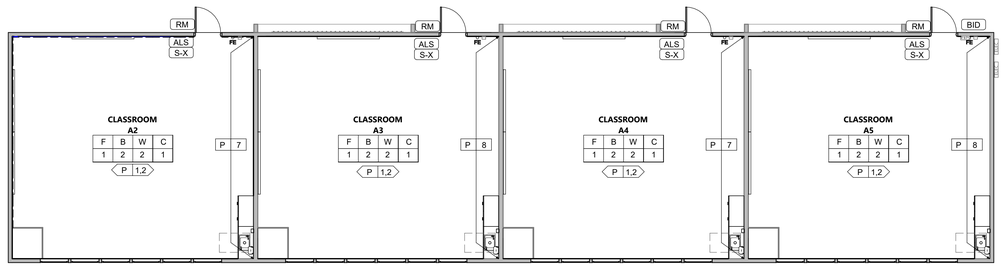
SHEET NO.

2A-251

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:40:30 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



PROJECT NORTH

NOTE:

PROVIDE **2** PORTABLE ASSISTIVE LISTENING SYSTEMS, EACH WITH A TRANSMITTER AND A MINIMUM OF **2** RECEIVERS, FOR USE IN THE CLASSROOMS.

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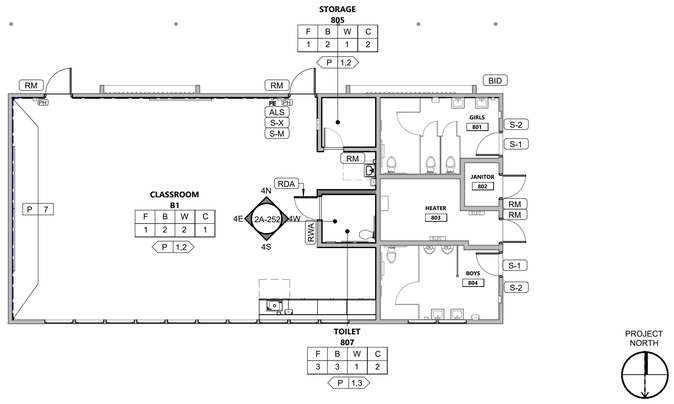
BUILDING 6 FINISH SCHEDULE

Building Number	Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
BUILDING 6	A2	CLASSROOM	1	2	2	1
BUILDING 6	A3	CLASSROOM	1	2	2	1
BUILDING 6	A4	CLASSROOM	1	2	2	1
BUILDING 6	A5	CLASSROOM	1	2	2	1

BLDG. 6 - FINISH KEY PLAN

1/8" = 1'-0" | 1



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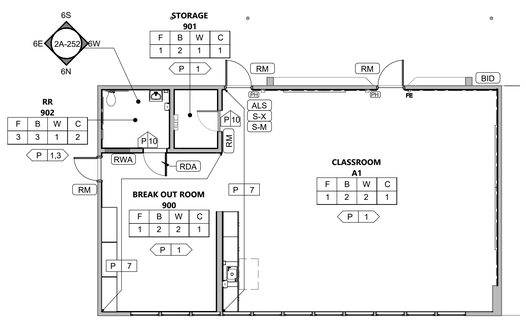
BUILDING 8 FINISH SCHEDULE

Building Number	Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
BUILDING 8	B1	CLASSROOM	1	2	2	1
BUILDING 8	804	BOYS	(E)	(E)	(E)	(E)
BUILDING 8	803	HEATER	(E)	(E)	(E)	(E)
BUILDING 8	801	GIRLS	(E)	(E)	(E)	(E)
BUILDING 8	805	STORAGE	1	2	1	2
BUILDING 8	807	TOILET	3	3	1	2
BUILDING 8	802	JANITOR	(E)	(E)	(E)	(E)

BLDG. 8 - FINISH KEY PLAN

1/8" = 1'-0" | 2



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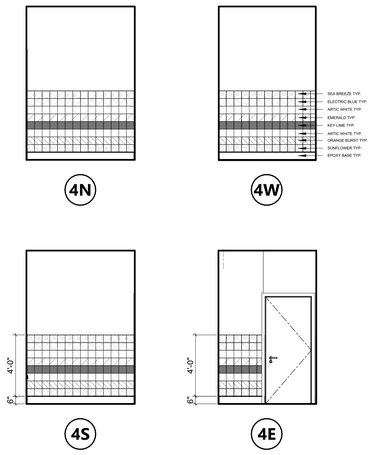
BUILDING 9 FINISH SCHEDULE

Building Number	Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
BUILDING 9	A1	CLASSROOM	1	2	2	1
BUILDING 9	901	STORAGE	1	2	1	1
BUILDING 9	902	RR	3	3	1	2

BLDG. 9 - FINISH KEY PLAN

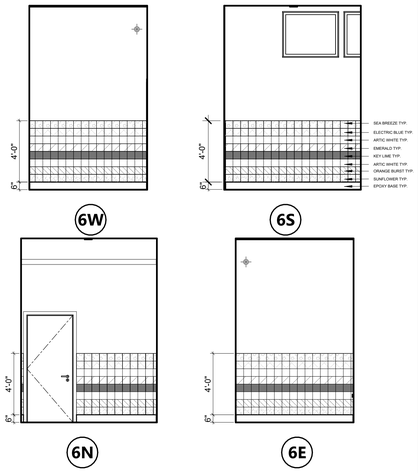
1/8" = 1'-0" | 3



NOTE: INTERIOR ELEVATIONS SHOWN ON FINISH PLANS ARE ONLY TO DEMONSTRATE THE PROPOSED TILE LAYOUT. FOR PLUMBING FIXTURES AND RR ACCESSORIES SEE RESTROOM PLAN ENLARGEMENTS.

BLDG. 8 - 807 RR - WALL TILE LAYOUT

1/4" = 1'-0" | 4



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BLDG. 9 - 902 RR - WALL TILE LAYOUT

1/4" = 1'-0" | 6

LEGEND - SIGNAGE GENERAL NOTES

1. ALL SIGNS ON GLAZING TO BE MOUNTED BACK TO BACK. SEE DETAIL 5/2A-925
2. ROOM/ EXIT SIGN LOCATIONS
   - A. SINGLE DOOR - MOUNT ON LATCH SIDE OF THE DOOR
   - B. DOUBLE DOOR - MOUNT ON RIGHT SIDE OF THE DOOR
   - C. WHERE NO WALL SPACE IS AVAILABLE ON LATCH SIDE, INCLUDING @ DL DOORS, SIGNS SHALL BE PLACED ON NEAREST ADJACENT WAL PREFERABLY ON THE RIGHT (CBC III7B.5.7)
   - D. INSTALL AT 60" AFF MAX. TO THE BOTTOM OF FIRST TEXT LINE.
   - E. SIGNAGE ATTACHMENT TO BE WALL W/ D.F TAPE AND SILICONE TYPICAL.
     a. OPTIONAL ALTERNATIVE AT PLASTER EXTERIOR: FASTENER ATTACHMENT WITH SS TAMPER-RESISTANT SCREW HEADS IF APPROVED BY OWNER.
3. SIGNAGE MATERIAL
   - A. ALL SIGNS TO BE 1/4" ACRYLIC PLASTIC
     a. NON-GLARE FINISH
   - B. MOUNTING ON DF TAPE WITH SILICONE AS REQUIRED.
   - C. FIGURES TO BE ETCHED WITH ENAMEL FILLED
4. SIGNAGE COLORS
   - A. LETTERS TO CONTRAST WITH BACKGROUND COLOR TO CONTRAST (70% MIN.) NON-GLARE FINISH. COLOR TBD.
   - B. BACKGROUND COLOR TBD TO MATCH SITE STANDARD

1. ATTACHED CARPET SHALL HAVE A FIRM CUSHION, PAD, OR BACKING. CARPET OR CARPET TILE SHALL FEATURE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. THE PILE HEIGHT SHOULD NOT EXCEED 2 INCHES (12.7 MM). EXPOSED EDGES OF CARPET MUST BE FASTENED TO FLOOR SURFACES AND EQUIPPED WITH TRIM ALONG THE ENTIRE LENGTH, COMPLYING WITH SECTION 11B-303.

LEGEND - SIGNAGE SYMBOLS

RM	ROOM NAME / NUMBER SIGN, SEE DETAILS	2/2A-925
S-1	RESTROOM ROOM DOOR SYMBOL, SEE DETAILS	18/2A-925
S-2	RESTROOM ROOM WALL SIGN, SEE DETAILS	13/2A-925
S-X	TACTILE "EXIT" SIGN (INTERIOR), SEE DETAILS	7/2A-925
S-XR	TACTILE "EXIT ROUTE" SIGN (INTERIOR), SEE DETAILS	10/2A-925
S-M	"MAXIMUM OCCUPANCY" SIGN (INTERIOR), SEE DETAIL	16/2A-925
ALS	ASSISTIVE LISTENING SIGN, SEE DETAIL	9/2A-925
RWA	RESTROOM WALL - ALL-GENDER	13/2A-925
RDA	RESTROOM DOOR - ALL-GENDER	18/2A-925
BID	BUILDING ID SIGN	20/2A-925

LEGEND - RESTROOM TILE COLOR

- OCEAN BLUE 1049 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- SEA BREEZE 1174 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- SUNFLOWER DH50 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6 DH50
- ORANGE BURST 1097 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- KEY LIME 1098 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- EMERALD 0115 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- ELECTRIC BLUE 1194 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6
- ARTIC WHITE 0190 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6 ARTIC WHITE 0190
- WOOD VIOLET 1467 SQUARE GLOSSY COLOR WHEEL CLASSIC 6X6

FINISHES GENERAL NOTES

1. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING MATERIAL DIMENSIONS AT EACH PARTITION IN THE FIELD AS RELATED TO THE OVERALL FINAL PARTITION DIMENSION, PRIOR TO DOOR AND WINDOW SUBMITTALS.
2. FOR MATERIAL FINISHES AND LOCATION OF FINISHES, REFER TO FINISH PLAN, INTERIOR ELEVATIONS AND FINISH SCHEDULE.
3. SPECIFICATIONS SHALL SUPERCEDE DIMENSIONS IN THIS DETAIL AS NECESSARY; CONTRACTOR TO VERIFY.

FLOOR FINISHES (F)

(F)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING FLOOR			MATCH EXISTING ADJACENT
1	LUXURY VINYL TILE	ID LATITUDE - LAUREL OAK		TARKETT
2	LVT (MULTICOLOR)	SEE TYPICAL CLASSROOM LVT LAYOUT LEGEND		TARKETT
3	EPOXY FLOORING	TBD		6" COVE BASE, DUR-A-FLEX

BASE FINISHES (B)

(B)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING BASE			MATCH EXISTING ADJACENT
2	4" RUBBER BASE	BLACK		JOHNSONITE
3	6" EPOXY COVE BASE	BLACK		6" COVE BASE, DUR-A-FLEX

WALL FINISHES (W)

(W)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING WALL			MATCH EXISTING ADJACENT
1	GYPSUM WALL BOARD	REFER TO FINISH PLANS		SEE FLOOR PLAN FOR DETAILS
2	TACKABLE WALL PANEL 7' HIGH	QUARTZ		CLARIDGE - TACK WALL
3	CERAMIC WALL TILE	COLOR WHEEL - 7 COLORS TOTAL	DALTILE	COLOR WHEEL - RR AGES 5-8
4	CERAMIC WALL TILE	COLOR WHEEL - 2 COLORS TOTAL	DALTILE	COLOR SHEEL - RR AGES 9-12
5	CERAMIC WALL TILE	COLOR WHEEL - 2 COLORS TOTAL	DALTILE	COLOR WHEEL - RR ADULT

CEILING FINISHES (C)

(C)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARK
(E#)	EXISTING CEILING			MATCH EXISTING ADJACENT
1	5/8" GYP BOARD	P-2 (SEE PAINT SCHEDULE)		

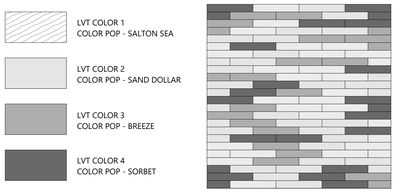
PAINT (P)

(P)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARK
(E#)	EXISTING PAINT			MATCH EXISTING ADJACENT
1	INTERIOR WALL PAINT	SW7757 HIGH REFLECTIVE WHITE	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
2	INTERIOR CLASSROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF. FLAT	SHERWIN WILLIAMS
3	INTERIOR RESTROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF. SEMIGLOSS	SHERWIN WILLIAMS
4	INTERIOR ACCENT WALL(OFFICE)	SW7631 CITY LOFT	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
5	INTERIOR ACCENT WALL (OFFICE)	SW9137 NIEBLA AZUL	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
6	INTERIOR ACCENT WALL (OFFICE)	SW6191 CONTENDED	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
7	INTERIOR ACCENT WALL (CLASSROOM)	SW9046 GENTLE AQUAMARINE	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
8	INTERIOR ACCENT WALL (CLASSROOM)	SW6716 DANCING GREEN	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
9	(ACCENT)	TBD		SHERWIN WILLIAMS
10	INTERIOR DOOR FRAME PAINT	SW7757		SHERWIN WILLIAMS

FINISHES PLAN



TYPICAL CLASSROOM LVT LAYOUT (F2)



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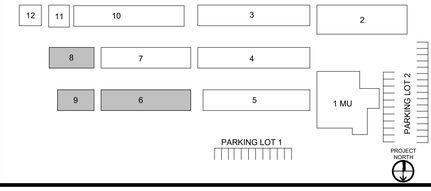

AGENCY APPROVAL DSA#

196

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
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Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

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REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 6, 8 & 9 - FINISH & SIGNAGE PLAN

INC.2

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

2A-252

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

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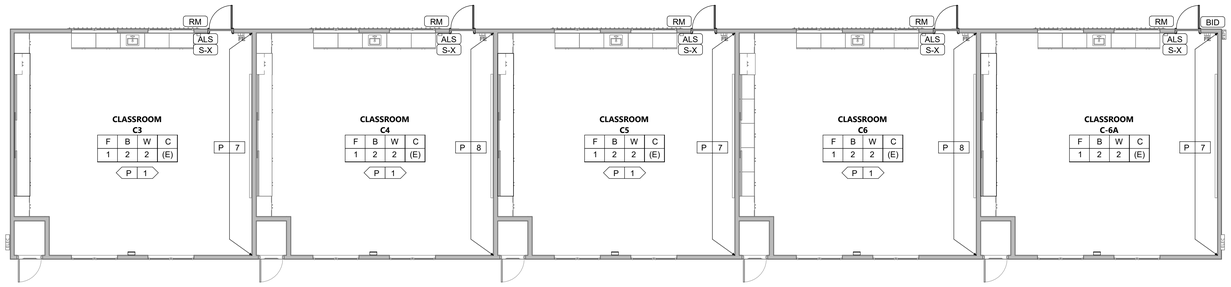


PROJECT NORTH

NOTE:

PROVIDE **2** PORTABLE ASSISTIVE LISTENING SYSTEMS, EACH WITH A TRANSMITTER AND A MINIMUM OF **2** RECEIVERS, FOR USE IN THE CLASSROOMS.

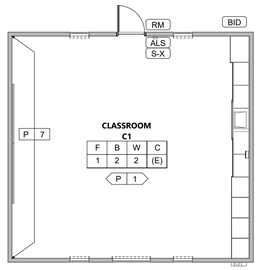
THE ASSISTIVE LISTENING RECEIVERS AND TRANSMITTER SHALL BE STORED IN THE SCHOOL SITE ADMINISTRATION OFFICE UNTIL REQUESTED, SEE SPECIFICATION SECTION 27 51 26

BUILDING 10 FINISH SCHEDULE

Building Number	Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
BUILDING 10	C3	CLASSROOM	1	2	2	(E)
BUILDING 10	C-6A	CLASSROOM	1	2	2	(E)
BUILDING 10	C4	CLASSROOM	1	2	2	(E)
BUILDING 10	C5	CLASSROOM	1	2	2	(E)
BUILDING 10	C6	CLASSROOM	1	2	2	(E)

BLDG. 10 - FINISH KEY PLAN

1/8" = 1'-0" | 1



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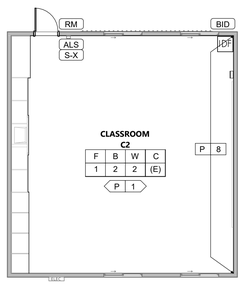
BUILDING 12 FINISH SCHEDULE

Building Number	Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
BUILDING 12	C1	CLASSROOM	1	2	2	(E)

BLDG. 12 - FINISH KEY PLAN

1/8" = 1'-0" | 3



PROJECT NORTH

NOTE:

PROVIDE **2** PORTABLE ASSISTIVE LISTENING SYSTEMS, EACH WITH A TRANSMITTER AND A MINIMUM OF **2** RECEIVERS, FOR USE IN THE CLASSROOMS.

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BUILDING 11 FINISH SCHEDULE

Building Number	Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
BUILDING 11	C2	CLASSROOM	1	2	2	(E)

BLDG. 11 - FINISH KEY PLAN

1/8" = 1'-0" | 2

LEGEND - SIGNAGE GENERAL NOTES

1. ALL SIGNS ON GLAZING TO BE MOUNTED BACK TO BACK. SEE DETAIL 5/2A-925
2. ROOM/ EXIT SIGN LOCATIONS
   - A. SINGLE DOOR - MOUNT ON LATCH SIDE OF THE DOOR
   - B. DOUBLE DOOR - MOUNT ON RIGHT SIDE OF THE DOOR
   - C. WHERE NO WALL SPACE IS AVAILABLE ON LATCH SIDE, INCLUDING @ DL DOORS, SIGNS SHALL BE PLACED ON NEAREST ADJACENT WAL PREFERABLY ON THE RIGHT (CBC Ii17B.5.7)
   - D. INSTALL AT 60" AFF MAX. TO THE BOTTOM OF FIRST TEXT LINE.
   - E. SIGNAGE ATTACHMENT TO BE WALL W/ D.F TAPE AND SILICONE TYPICAL
     a. OPTIONAL ALTERNATIVE AT PLASTER EXTERIOR: FASTENER ATTACHMENT WITH SS TAMPER-RESISTANT SCREW HEADS IF APPROVED BY OWNER.
3. SIGNAGE MATERIAL
   - A. ALL SIGNS TO BE 1/4" ACRYLIC PLASTIC
     a. NON-GLARE FINISH
   - B. MOUNTING ON DF TAPE WITH SILICONE AS REQUIRED.
   - C. FIGURES TO BE ETCHED WITH ENAMEL FILLED
4. SIGNAGE COLORS
   - A. LETTERS TO CONTRAST WITH BACKGROUND COLOR TO CONTRAST (70% MIN.) NON-GLARE FINISH. COLOR TBD.
   - B. BACKGROUND COLOR TBD TO MATCH SITE STANDARD

1. ATTACHED CARPET SHALL HAVE A FIRM CUSHION, PAD, OR BACKING. CARPET OR CARPET TILE SHALL FEATURE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. THE PILE HEIGHT SHOULD NOT EXCEED 2 INCHES (12.7 MM). EXPOSED EDGES OF CARPET MUST BE FASTENED TO FLOOR SURFACES AND EQUIPPED WITH TRIM ALONG THE ENTIRE LENGTH, COMPLYING WITH SECTION 11B-303.

LEGEND - SIGNAGE SYMBOLS

RM	ROOM NAME / NUMBER SIGN, SEE DETAILS	2/2A-925
S-1	RESTROOM ROOM DOOR SYMBOL, SEE DETAILS	18/2A-925
S-2	RESTROOM ROOM WALL SIGN, SEE DETAILS	13/2A-925
S-X	TACTILE "EXIT" SIGN (INTERIOR), SEE DETAILS	7/2A-925
S-XR	TACTILE "EXIT ROUTE" SIGN (INTERIOR), SEE DETAILS	10/2A-925
S-M	"MAXIMUM OCCUPANCY" SIGN (INTERIOR), SEE DETAIL	16/2A-925
ALS	ASSISTIVE LISTENING SIGN, SEE DETAIL	9/2A-925
RWA	RESTROOM WALL - ALL-GENDER	13/2A-925
RDA	RESTROOM DOOR - ALL-GENDER	18/2A-925
BID	BUILDING ID SIGN	20/2A-925

FINISHES GENERAL NOTES

1. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING MATERIAL DIMENSIONS AT EACH PARTITION IN THE FIELD AS RELATED TO THE OVERALL FINAL PARTITION DIMENSION, PRIOR TO DOOR AND WINDOW SUBMITTALS.
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FLOOR FINISHES (F)

(F)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING FLOOR			MATCH EXISTING ADJACENT
1	LUXURY VINYL TILE	ID LATITUDE - LAUREL OAK		TARKETT
2	LVT (MULTICOLOR)	SEE TYPICAL CLASSROOM LVT LAYOUT LEGEND		TARKETT
3	EPOXY FLOORING	TBD		6" COVE BASE, DUR-A-FLEX

BASE FINISHES (B)

(B)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING BASE			MATCH EXISTING ADJACENT
2	4" RUBBER BASE	BLACK		JOHNSONITE
3	6" EPOXY COVE BASE	BLACK		6" COVE BASE, DUR-A-FLEX

WALL FINISHES (W)

(W)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING WALL			MATCH EXISTING ADJACENT
1	GYPSUM WALL BOARD	REFER TO FINISH PLANS		SEE FLOOR PLAN FOR DETAILS
2	TACKABLE WALL PANEL 7' HIGH	QUARTZ		CLARIDGE - TACK WALL
3	CERAMIC WALL TILE	COLOR WHEEL - 7 COLORS TOTAL	DALTILE	COLOR WHEEL - RR AGES 5-8
4	CERAMIC WALL TILE	COLOR WHEEL - 2 COLORS TOTAL	DALTILE	COLOR SHEEL - RR AGES 9-12
5	CERAMIC WALL TILE	COLOR WHEEL - 2 COLORS TOTAL	DALTILE	COLOR WHEEL - RR ADULT

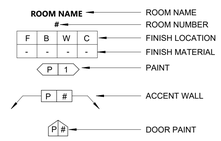
CEILING FINISHES (C)

(C)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARK
(E#)	EXISTING CEILING			MATCH EXISTING ADJACENT
1	5/8" GYP BOARD	P-2 (SEE PAINT SCHEDULE)		

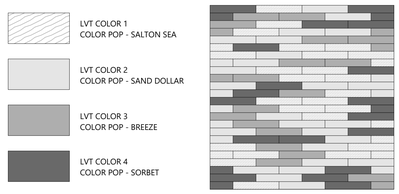
PAINT (P)

(P)	DESCRIPTION	COLOR	SPECIFICATIO N SECTION	REMARK
(E#)	EXISTING PAINT			MATCH EXISTING ADJACENT
1	INTERIOR WALL PAINT	SW7757 HIGH REFLECTIVE WHITE	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
2	INTERIOR CLASSROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF. FLAT	SHERWIN WILLIAMS
3	INTERIOR RESTROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF. SEMIGLOSS	SHERWIN WILLIAMS
4	INTERIOR ACCENT WALL(OFFICE)	SW7631 CITY LOFT	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
5	INTERIOR ACCENT WALL (OFFICE)	SW9137 NIEBLA AZUL	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
6	INTERIOR ACCENT WALL (OFFICE)	SW6191 CONTENDED	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
7	INTERIOR ACCENT WALL (CLASSROOM)	SW9046 GENTLE AQUAMARINE	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
8	INTERIOR ACCENT WALL (CLASSROOM)	SW6716 DANCING GREEN	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
9	(ACCENT)	TBD		SHERWIN WILLIAMS
10	INTERIOR DOOR FRAME PAINT	SW7757		SHERWIN WILLIAMS

FINISHES PLAN



TYPICAL CLASSROOM LVT LAYOUT (F2)



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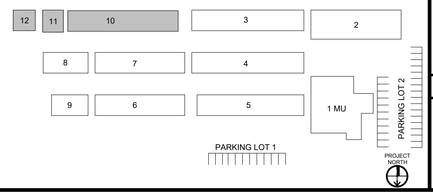

AGENCY APPROVAL DSA#

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

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8 Harris Court, Suite A8
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TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT · MARLENE ALVAREZ-BERGA · C-36107 · REN. 01-31-25 · STATE OF CALIFORNIA

REVISIONS

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 10, 11 & 12 - FINISH & SIGNAGE PLAN

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

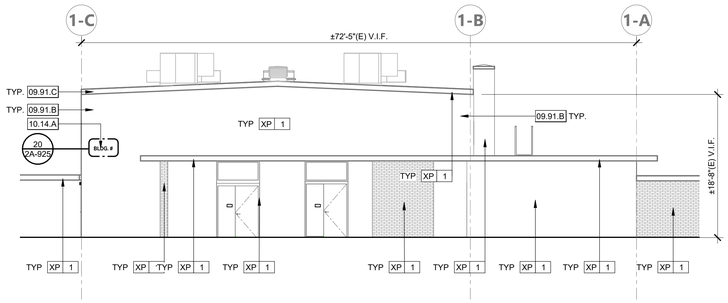
SHEET NO.

2A-253

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:40:46 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



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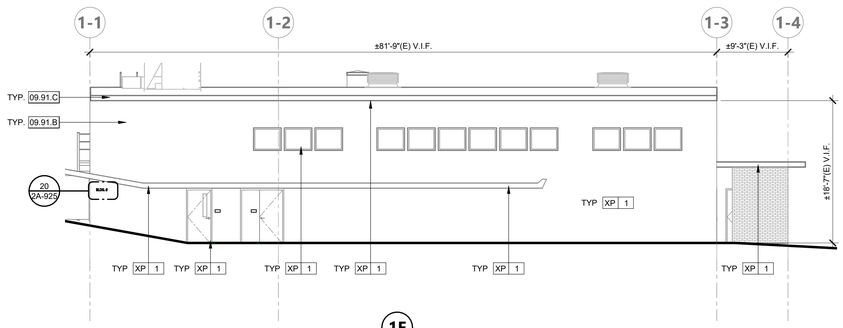

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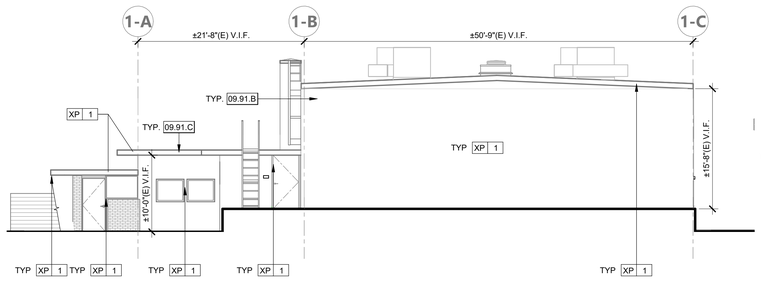

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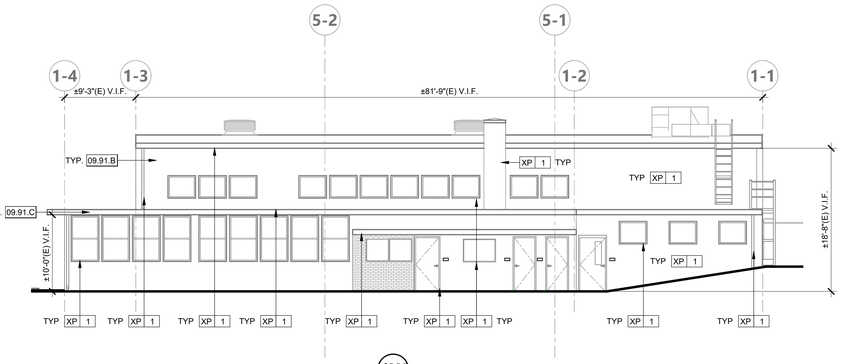
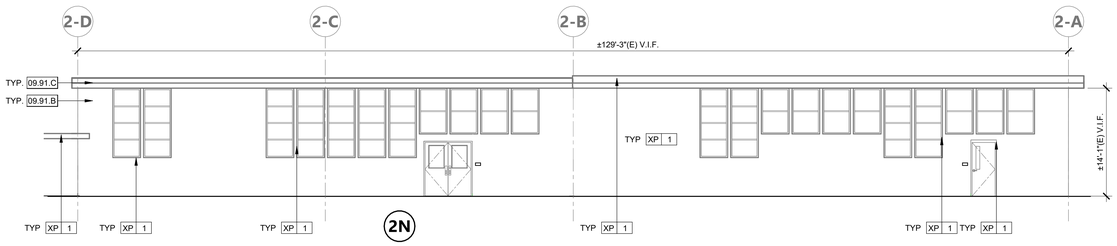


1W

BUILDING 1 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1



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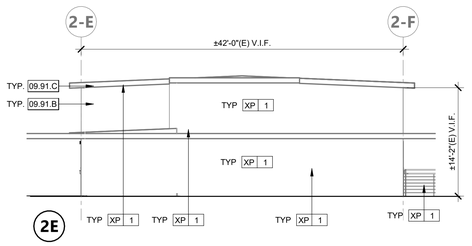

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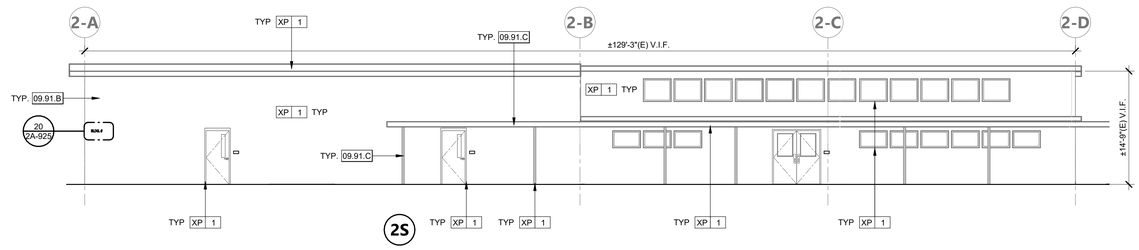

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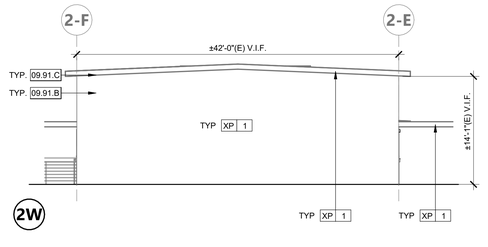


2W

BUILDING 2 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2

KEYNOTES

09.91.B	ALL EXTERIOR SURFACES ARE TO BE PAINTED, INCLUDING, BUT NOT LIMITED TO, WALLS, WOOD TRIMS, COVERED WALKWAYS, WOOD BENCHES, STRIPING ON CONCRETE WALKWAYS, RAILINGS AND HANDRAILS, EXTERIOR DOORS AND FRAMES, WINDOW FRAMES AND SILLS, AND ANY SIGNAGE OR ARCHITECTURAL FEATURES. REFER TO EXTERIOR PAINTING SCHEDULE
09.91.C	REPAINT METAL FASCIAS, GUTTERS, FLASHINGS, DOWNSPOUTS, CANOPY POSTS OR SUPPORTS, MISCELLANEOUS METALS, AND WALL/HVAC VENTS. REFER TO EXTERIOR PAINTING SCHEDULE
10.14.A	(N) SIGNAGE PER FINISH AND SIGNAGE PLANS

EXTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE WINDOW SCHEDULE.
2. PATCH AND REPAIR EXTERIOR SURFACES AS NEEDED OR WHERE INDICATED
3. ALL WALL PATCHS TO BE PAINTED. MATCH EXISTING EXTERIOR WALL COLOR. PROVIDE A FLUSH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
4. EXTERIOR REPAINTING SCOPE OF WORK:
   - A. REPAIR ALL DAMAGED SURFACES TO ACHIEVE A FLUSH, CLEAN FINISH.
   - B. SAND, CLEAN, AND RE-PRIME ALL EXISTING SURFACES.
   - C. REPAINT ALL EXISTING PAINTED SURFACES, INCLUDING BUT NOT LIMITED TO WALLS, WALKWAY SOFFITS, CONDUITS, PIPES, GUTTERS, DOWNSPOUTS, TRIM, AND DOOR AND WINDOW FRAMES OF EXISTING BUILDINGS.
   - D. REPAINT ALL PAINTED SITE EQUIPMENT, INCLUDING BUT NOT LIMITED TO BENCHES, CANOPY POSTS, BASKETBALL EQUIPMENT, AND FREESTANDING WALLS.
   - E. USE COLORS AS SPECIFIED IN THE DISTRICT-APPROVED COLOR PALETTE.
   - F. PAINT ALL DOOR FRAMES, WINDOW FRAMES AS INDICATED ON THE PLANS.

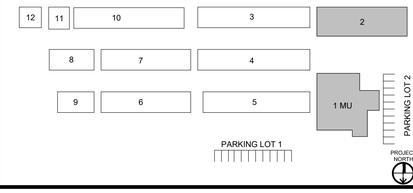
EXTERIOR ELEVATION LEGEND

- A6 — WALL TYPE TAG
- 101AA — DOOR TYPE TAG
- A — WINDOW TYPE TAG
- XP 1 — EXTERIOR PAINT TAG
- (N) WALL INFILL

EXTERIOR PAINTING SCHEDULE

Key Name	DESCRIPTION	MANUFACTURER	FINISH	COLOR	COMMENTS	REMARK
1	EXTERIOR PAINT		EGGSHELL			
2	EXTERIOR ACCENT PAINT		EGGSHELL			
3	EXTERIOR ACCENT PAINT		EGGSHELL			
4	EXTERIOR ACCENT PAINT		EGGSHELL			
5	EXTERIOR FASCIA PAINT		EGGSHELL			
6	EXTERIOR GUTTER PAINT		SEMI-GLOSS			
7	EXTERIOR TRIM PAINT		SEMI-GLOSS			
8	EXTERIOR BUILDING ID PAINT		EGGSHELL			

KEY PLAN



AGENCY APPROVAL DSA#

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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San Ramon, CA 94582
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San Francisco, CA 94104
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5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT · MARINA ALVAREZ ARTEAGA · C-36107 · REN. 01-31-25 · STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 1 & 2 - EXTERIOR ELEVATIONS

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.

2A-301

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

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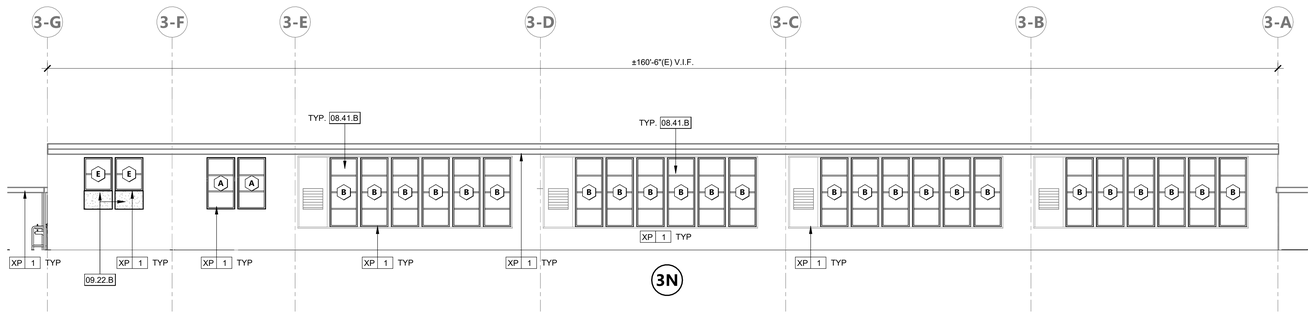
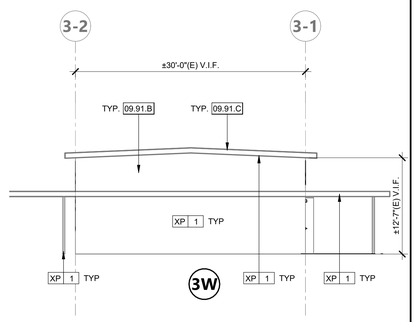
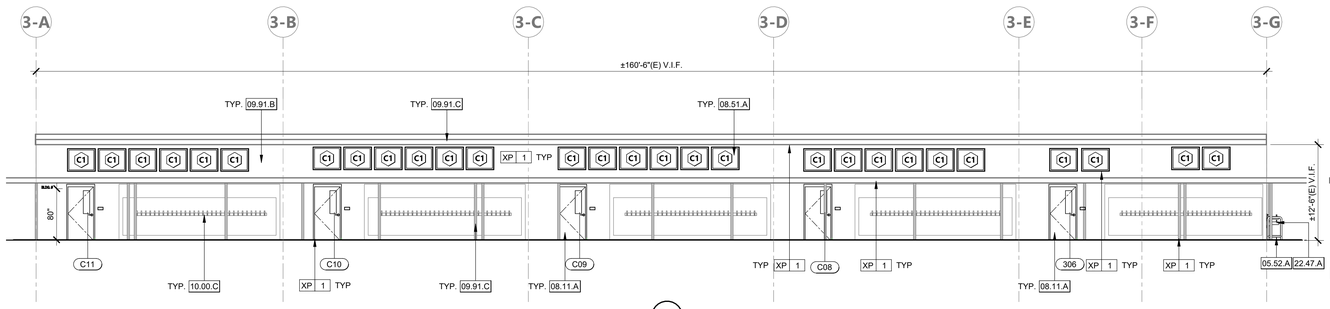
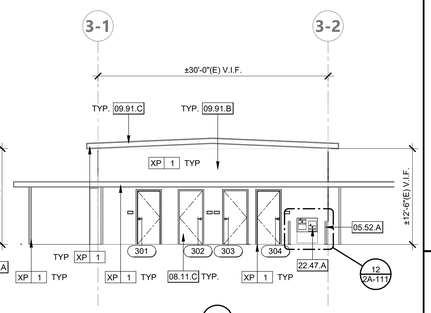
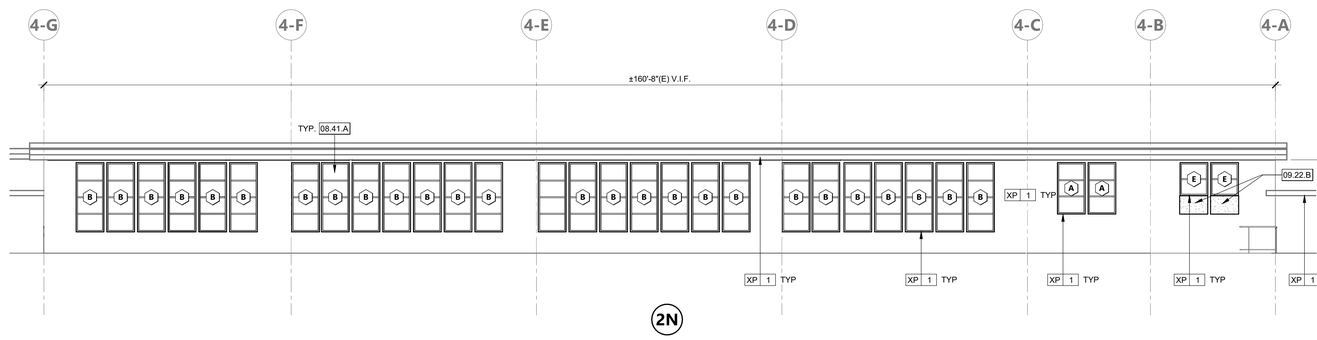


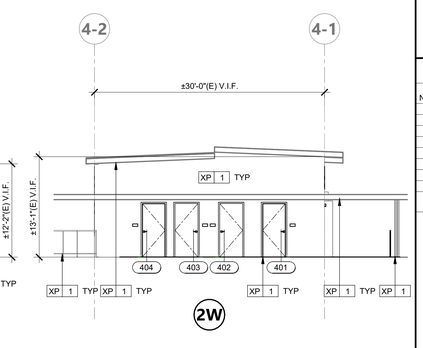


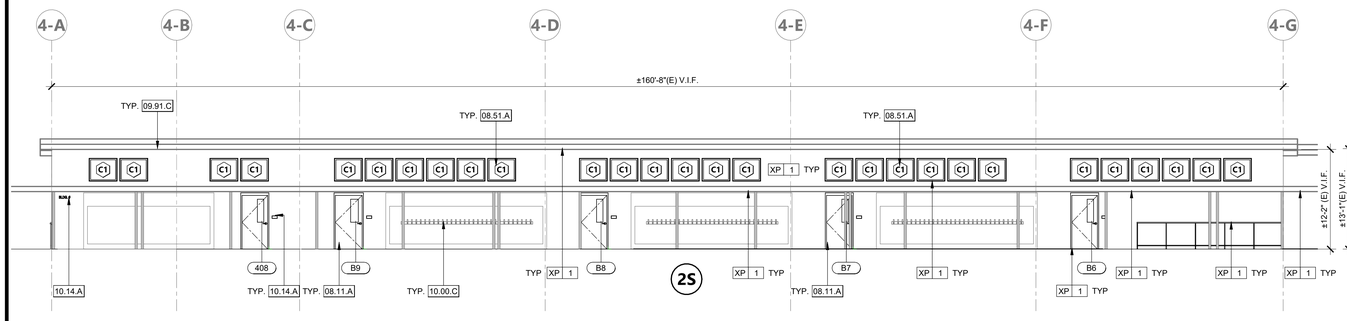


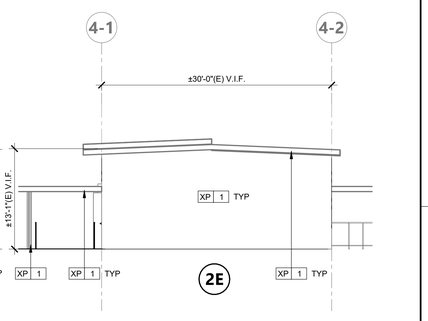


BUILDING 3 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1









BUILDING 4 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2

KEYNOTES

05.52.A	(N) CANE DETECTION RAILING
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.11.C	NEW FRP FLUSH DOOR, PROTECT EXISTING WOOD FRAME
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.22.B	(N) INFILL WALL. PATCH BACK AND PAINT TO MATCH ADJACENT SURFACES.
09.91.B	ALL EXTERIOR SURFACES ARE TO BE PAINTED, INCLUDING, BUT NOT LIMITED TO, WALLS, WOOD TRIMS, COVERED WALKWAYS, WOOD BENCHES, STRIPING ON CONCRETE WALKWAYS, RAILINGS AND HANDRAILS, EXTERIOR DOORS AND FRAMES, WINDOW FRAMES AND SILLS, AND ANY SIGNAGE OR ARCHITECTURAL FEATURES. REFER TO EXTERIOR PAINTING SCHEDULE
09.91.C	REPAINT METAL FASCIAS, GUTTERS, FLASHINGS, DOWNSPOUTS, CANOPY POSTS OR SUPPORTS, MISCELLANEOUS METALS, AND WALL/HVAC VENTS. REFER TO EXTERIOR PAINTING SCHEDULE
10.00.C	(E) COAT RACK TO BE REMOVED AND REINSTALLED DURING EXTERIOR PAINTING.
10.14.A	(N) SIGNAGE PER FINISH AND SIGNAGE PLANS
22.47.A	(N) HI-LOW ACCESSIBLE DRINKING FOUNTAIN. REFER TO DETAIL 12/2A-111

EXTERIOR ELEVATION GENERAL NOTES

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   - D. REPAINT ALL PAINTED SITE EQUIPMENT, INCLUDING BUT NOT LIMITED TO BENCHES, CANOPY POSTS, BASKETBALL EQUIPMENT, AND FREESTANDING WALLS.
   - E. USE COLORS AS SPECIFIED IN THE DISTRICT-APPROVED COLOR PALETTE.
   - F. PAINT ALL DOOR FRAMES, WINDOW FRAMES AS INDICATED ON THE PLANS.

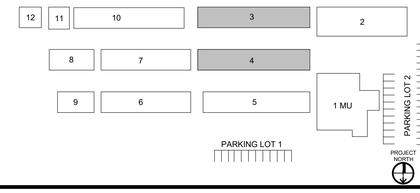
EXTERIOR ELEVATION LEGEND

- A6 — WALL TYPE TAG
- 101AA — DOOR TYPE TAG
- A — WINDOW TYPE TAG
- XP 1 — EXTERIOR PAINT TAG
- (N) WALL INFILL

EXTERIOR PAINTING SCHEDULE

Key Name	DESCRIPTION	MANUFACTURER	FINISH	COLOR	COMMENTS	REMARK
1	EXTERIOR PAINT		EGGSHELL			
2	EXTERIOR ACCENT PAINT		EGGSHELL			
3	EXTERIOR ACCENT PAINT		EGGSHELL			
4	EXTERIOR ACCENT PAINT		EGGSHELL			
5	EXTERIOR FASCIA PAINT		EGGSHELL			
6	EXTERIOR GUTTER PAINT		SEMI-GLOSS			
7	EXTERIOR TRIM PAINT		SEMI-GLOSS			
8	EXTERIOR BUILDING ID PAINT		EGGSHELL			

KEY PLAN



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SAN JOSE, CA 95126
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BLDG 3 & 4 - EXTERIOR ELEVATIONS

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.

2A-302

DATE: SEPTEMBER 27, 2024

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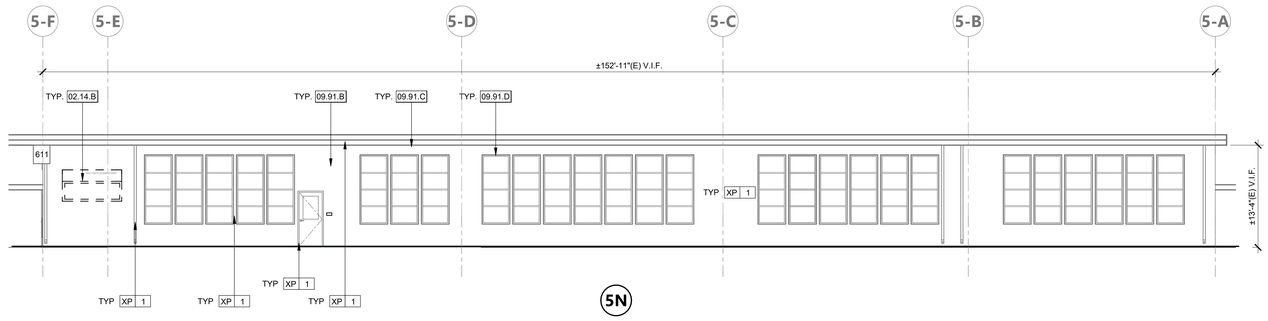

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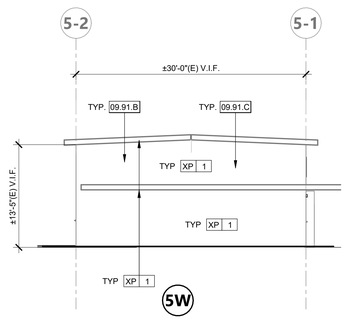

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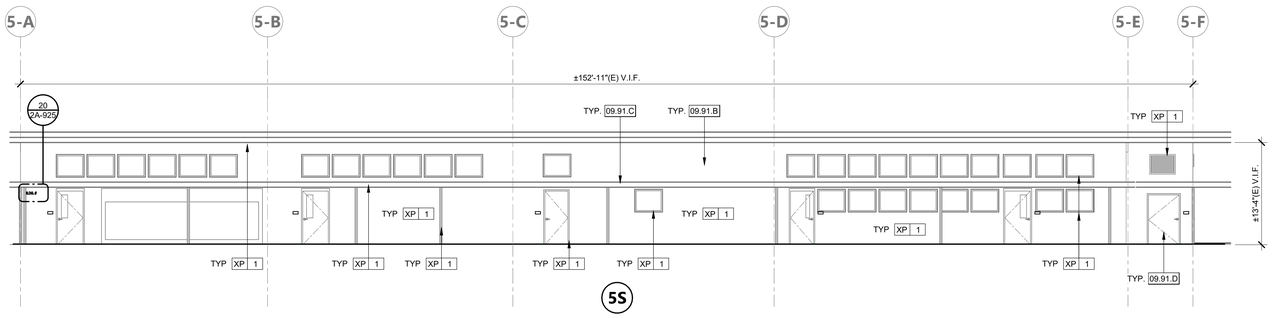

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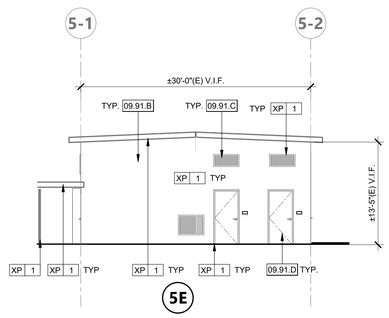
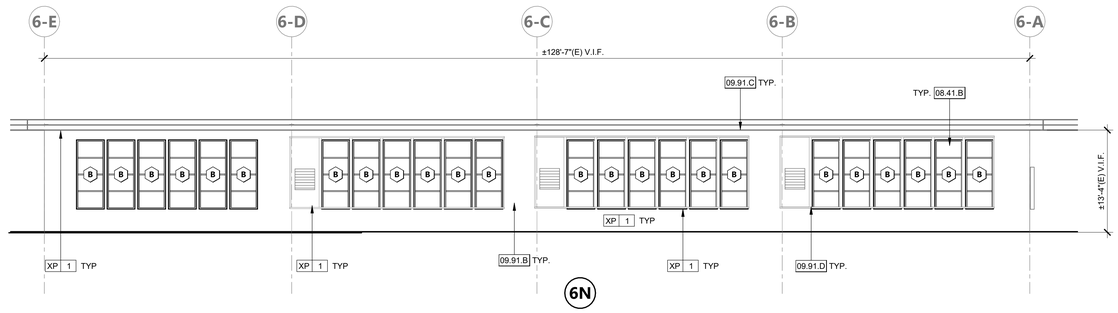


5E

BUILDING 5 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1



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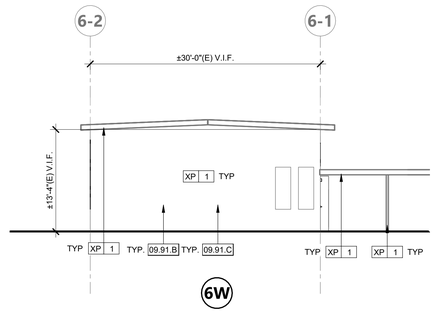

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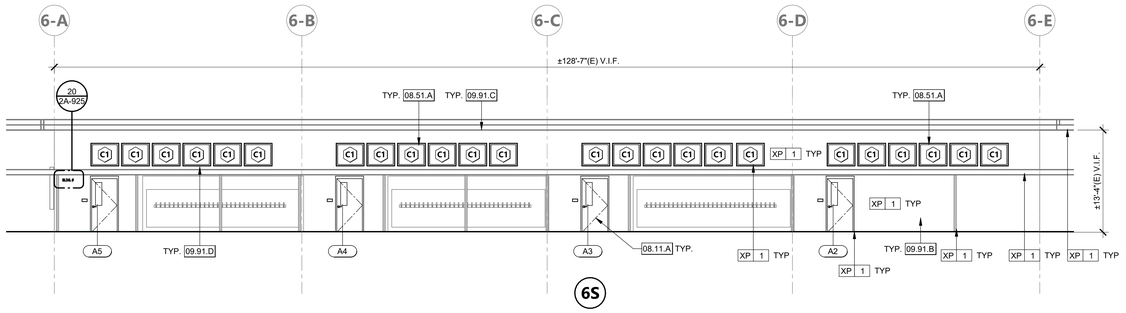

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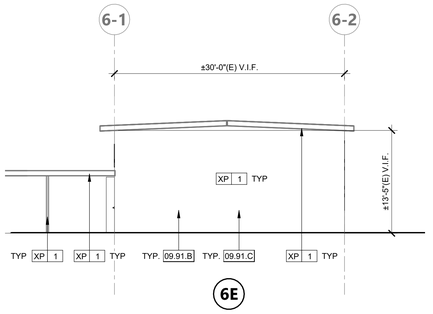

6E

BUILDING 6 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2

KEYNOTES

02.14.B	(E) ELECTRONIC SIGNAGE TO BE REMOVED AND RETURNED TO DISTRICT. S.E.D.
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.91.B	ALL EXTERIOR SURFACES ARE TO BE PAINTED, INCLUDING, BUT NOT LIMITED TO, WALLS, WOOD TRIMS, COVERED WALKWAYS, WOOD BENCHES, STRIPING ON CONCRETE WALKWAYS, RAILINGS AND HANDRAILS, EXTERIOR DOORS AND FRAMES, WINDOW FRAMES AND SILLS, AND ANY SIGNAGE OR ARCHITECTURAL FEATURES. REFER TO EXTERIOR PAINTING SCHEDULE.
09.91.C	REPAINT METAL FASCIAS, GUTTERS, FLASHINGS, DOWNSPOUTS, CANOPY POSTS OR SUPPORTS, MISCELLANEOUS METALS, AND WALL/HVAC VENTS. REFER TO EXTERIOR PAINTING SCHEDULE
09.91.D	REPAINT EXISTING/NEW DOOR FRAME AND WINDOW CASING. SEE FINISH SCHEDULE.

EXTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE WINDOW SCHEDULE.
2. PATCH AND REPAIR EXTERIOR SURFACES AS NEEDED OR WHERE INDICATED
3. ALL WALL PATCHS TO BE PAINTED. MATCH EXISTING EXTERIOR WALL COLOR. PROVIDE A FLUSH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
4. EXTERIOR REPAINTING SCOPE OF WORK:
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   - B. SAND, CLEAN, AND RE-PRIME ALL EXISTING SURFACES.
   - C. REPAINT ALL EXISTING PAINTED SURFACES, INCLUDING BUT NOT LIMITED TO WALLS, WALKWAY SOFFITS, CONDUITS, PIPES, GUTTERS, DOWNSPOUTS, TRIM, AND DOOR AND WINDOW FRAMES OF EXISTING BUILDINGS.
   - D. REPAINT ALL PAINTED SITE EQUIPMENT, INCLUDING BUT NOT LIMITED TO BENCHES, CANOPY POSTS, BASKETBALL EQUIPMENT, AND FREESTANDING WALLS.
   - E. USE COLORS AS SPECIFIED IN THE DISTRICT-APPROVED COLOR PALETTE.
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EXTERIOR ELEVATION LEGEND

- A6 — WALL TYPE TAG
- 101AA — DOOR TYPE TAG
- A — WINDOW TYPE TAG
- XP 1 — EXTERIOR PAINT TAG
- (N) WALL INFILL

EXTERIOR PAINTING SCHEDULE

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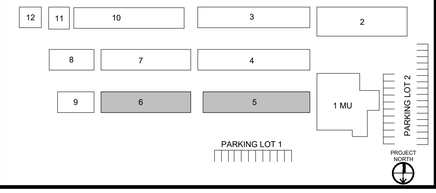
KEY PLAN



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SAN JOSE, CA 95126
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BLDG 5 & 6 - EXTERIOR ELEVATIONS

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.

2A-303

DATE: SEPTEMBER 27, 2024

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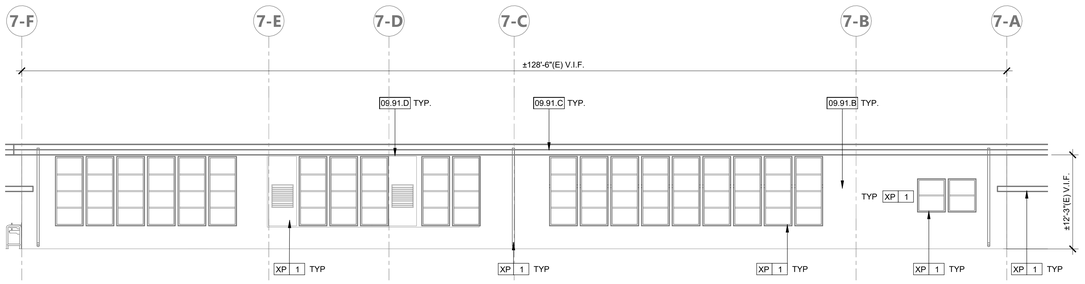

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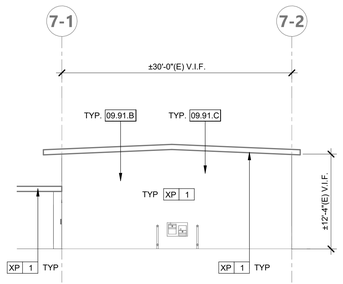

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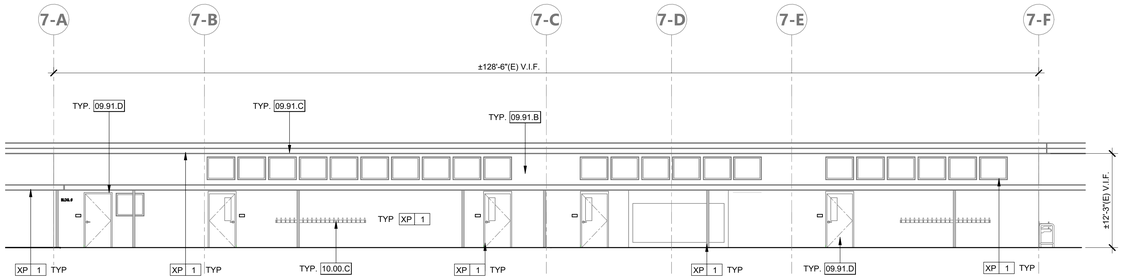

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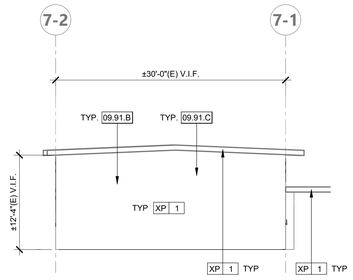

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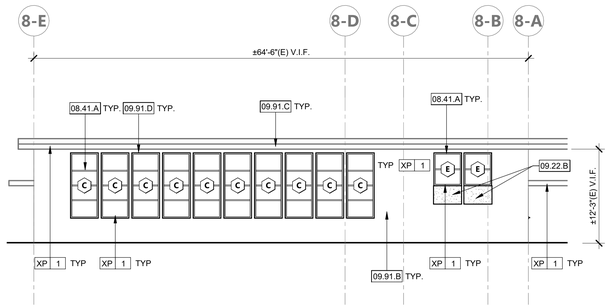
BUILDING 7 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1



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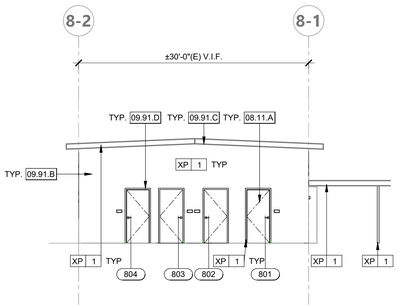

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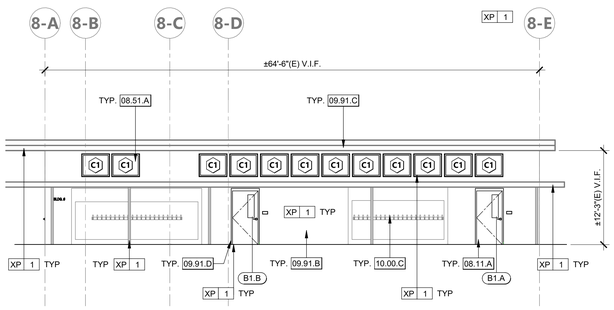

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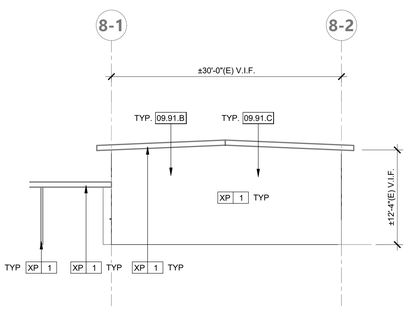


2E

BUILDING 8 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2

KEYNOTES

08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.51.A	(N) CLERESTORY WINDOWS
09.22.B	(N) INFILL WALL. PATCH BACK AND PAINT TO MATCH ADJACENT SURFACES.
09.91.B	ALL EXTERIOR SURFACES ARE TO BE PAINTED, INCLUDING, BUT NOT LIMITED TO, WALLS, WOOD TRIMS, COVERED WALKWAYS, WOOD BENCHES, STRIPING ON CONCRETE WALKWAYS, RAILINGS AND HANDRAILS, EXTERIOR DOORS AND FRAMES, WINDOW FRAMES AND SILLS, AND ANY SIGNAGE OR ARCHITECTURAL FEATURES. REFER TO EXTERIOR PAINTING SCHEDULE
09.91.C	REPAINT METAL FASCIAS, GUTTERS, FLASHINGS, DOWNSPOUTS, CANOPY POSTS OR SUPPORTS, MISCELLANEOUS METALS, AND WALL/HVAC VENTS. REFER TO EXTERIOR PAINTING SCHEDULE
09.91.D	REPAINT EXISTING/NEW DOOR FRAME AND WINDOW CASING. SEE FINISH SCHEDULE.
10.00.C	(E) COAT RACK TO BE REMOVED AND REINSTALLED DURING EXTERIOR PAINTING.

EXTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE WINDOW SCHEDULE.
2. PATCH AND REPAIR EXTERIOR SURFACES AS NEEDED OR WHERE INDICATED
3. ALL WALL PATCHS TO BE PAINTED. MATCH EXISTING EXTERIOR WALL COLOR. PROVIDE A FLUSH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
4. EXTERIOR REPAINTING SCOPE OF WORK:
   - A. REPAIR ALL DAMAGED SURFACES TO ACHIEVE A FLUSH, CLEAN FINISH.
   - B. SAND, CLEAN, AND RE-PRIME ALL EXISTING SURFACES.
   - C. REPAINT ALL EXISTING PAINTED SURFACES, INCLUDING BUT NOT LIMITED TO WALLS, WALKWAY SOFFITS, CONDUITS, PIPES, GUTTERS, DOWNSPOUTS, TRIM, AND DOOR AND WINDOW FRAMES OF EXISTING BUILDINGS.
   - D. REPAINT ALL PAINTED SITE EQUIPMENT, INCLUDING BUT NOT LIMITED TO BENCHES, CANOPY POSTS, BASKETBALL EQUIPMENT, AND FREESTANDING WALLS.
   - E. USE COLORS AS SPECIFIED IN THE DISTRICT-APPROVED COLOR PALETTE.
   - F. PAINT ALL DOOR FRAMES, WINDOW FRAMES AS INDICATED ON THE PLANS.

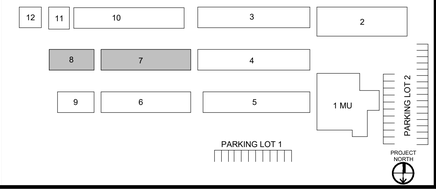
EXTERIOR ELEVATION LEGEND

- A6 — WALL TYPE TAG
- 101AA — DOOR TYPE TAG
- A — WINDOW TYPE TAG
- XP 1 — EXTERIOR PAINT TAG
- (N) WALL INFILL

EXTERIOR PAINTING SCHEDULE

Key Name	DESCRIPTION	MANUFACTURER	FINISH	COLOR	COMMENTS	REMARK
1	EXTERIOR PAINT		EGGSHELL			
2	EXTERIOR ACCENT PAINT		EGGSHELL			
3	EXTERIOR ACCENT PAINT		EGGSHELL			
4	EXTERIOR ACCENT PAINT		EGGSHELL			
5	EXTERIOR FASCIA PAINT		EGGSHELL			
6	EXTERIOR GUTTER PAINT		SEMI-GLOSS			
7	EXTERIOR TRIM PAINT		SEMI-GLOSS			
8	EXTERIOR BUILDING ID PAINT		EGGSHELL			

KEY PLAN



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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
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San Ramon, CA 94582
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TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARINA ALVAREZ ARTEAGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 7 & 8 - EXTERIOR ELEVATIONS

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

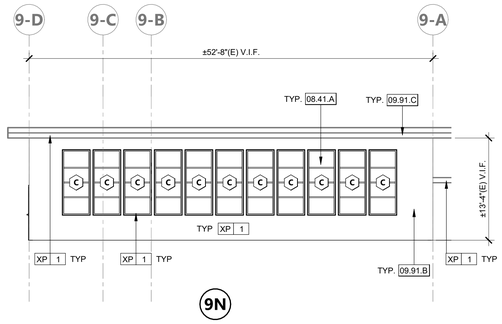
SHEET NO.

2A-304

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:41:20 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



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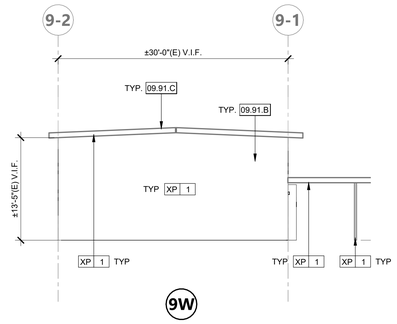

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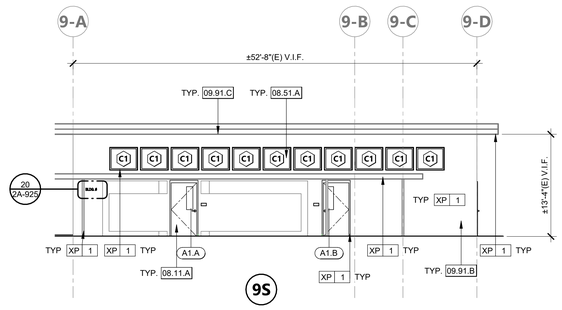

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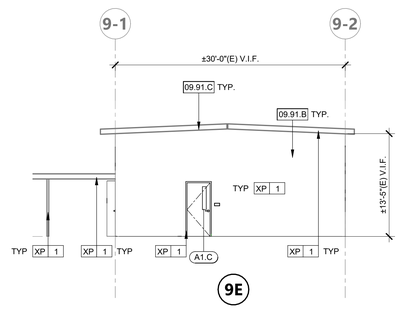
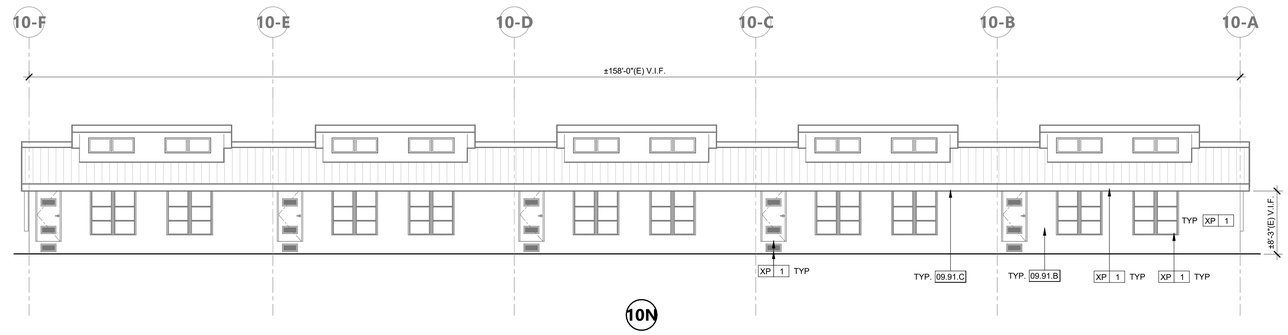


9E

BUILDING 9 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1



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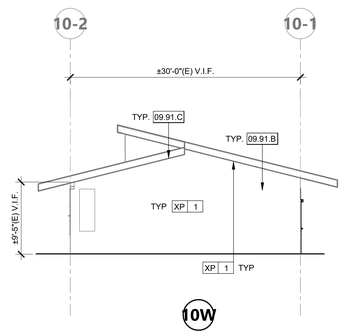

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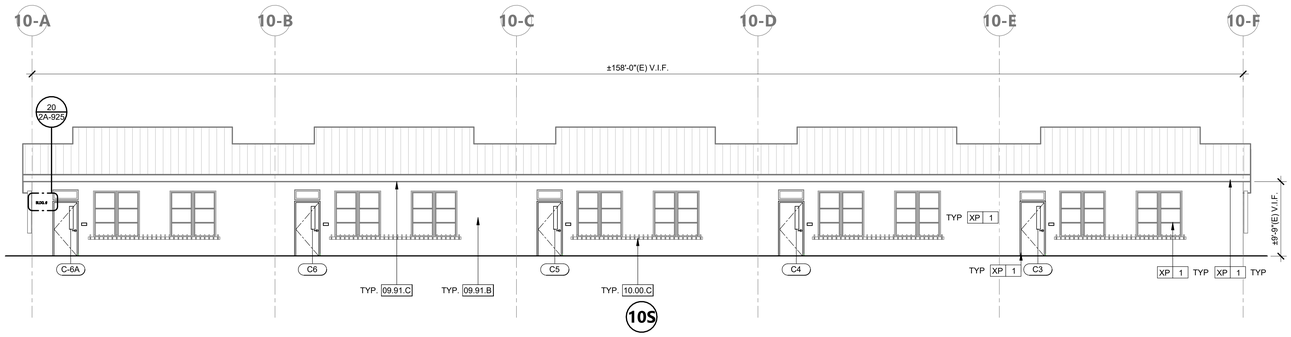

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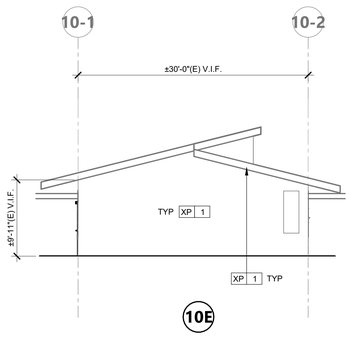


10E

BUILDING 10 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2

KEYNOTES

08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.51.A	(N) CLERESTORY WINDOWS
09.91.B	ALL EXTERIOR SURFACES ARE TO BE PAINTED, INCLUDING, BUT NOT LIMITED TO, WALLS, WOOD TRIMS, COVERED WALKWAYS, WOOD BENCHES, STRIPING ON CONCRETE WALKWAYS, RAILINGS AND HANDRAILS, EXTERIOR DOORS AND FRAMES, WINDOW FRAMES AND SILLS, AND ANY SIGNAGE OR ARCHITECTURAL FEATURES. REFER TO EXTERIOR PAINTING SCHEDULE
09.91.C	REPAINT METAL FASCIAS, GUTTERS, FLASHINGS, DOWNSPOUTS, CANOPY POSTS OR SUPPORTS, MISCELLANEOUS METALS, AND WALL/HVAC VENTS. REFER TO EXTERIOR PAINTING SCHEDULE
10.00.C	(E) COAT RACK TO BE REMOVED AND REINSTALLED DURING EXTERIOR PAINTING.

EXTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE WINDOW SCHEDULE.
2. PATCH AND REPAIR EXTERIOR SURFACES AS NEEDED OR WHERE INDICATED
3. ALL WALL PATCHS TO BE PAINTED. MATCH EXISTING EXTERIOR WALL COLOR. PROVIDE A FLUSH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
4. EXTERIOR REPAINTING SCOPE OF WORK:
   - A. REPAIR ALL DAMAGED SURFACES TO ACHIEVE A FLUSH, CLEAN FINISH.
   - B. SAND, CLEAN, AND RE-PRIME ALL EXISTING SURFACES.
   - C. REPAINT ALL EXISTING PAINTED SURFACES, INCLUDING BUT NOT LIMITED TO WALLS, WALKWAY SOFFITS, CONDUITS, PIPES, GUTTERS, DOWNSPOUTS, TRIM, AND DOOR AND WINDOW FRAMES OF EXISTING BUILDINGS.
   - D. REPAINT ALL PAINTED SITE EQUIPMENT, INCLUDING BUT NOT LIMITED TO BENCHES, CANOPY POSTS, BASKETBALL EQUIPMENT, AND FREESTANDING WALLS.
   - E. USE COLORS AS SPECIFIED IN THE DISTRICT-APPROVED COLOR PALETTE.
   - F. PAINT ALL DOOR FRAMES, WINDOW FRAMES AS INDICATED ON THE PLANS.

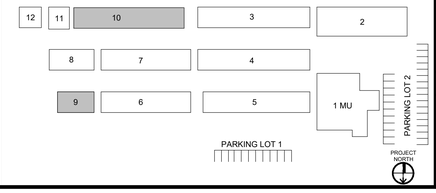
EXTERIOR ELEVATION LEGEND

- A6 — WALL TYPE TAG
- 101AA — DOOR TYPE TAG
- A — WINDOW TYPE TAG
- XP 1 — EXTERIOR PAINT TAG
- (N) WALL INFILL

EXTERIOR PAINTING SCHEDULE

Key Name	DESCRIPTION	MANUFACTURER	FINISH	COLOR	COMMENTS	REMARK
1	EXTERIOR PAINT		EGGSHELL			
2	EXTERIOR ACCENT PAINT		EGGSHELL			
3	EXTERIOR ACCENT PAINT		EGGSHELL			
4	EXTERIOR ACCENT PAINT		EGGSHELL			
5	EXTERIOR FASCIA PAINT		EGGSHELL			
6	EXTERIOR GUTTER PAINT		SEMI-GLOSS			
7	EXTERIOR TRIM PAINT		SEMI-GLOSS			
8	EXTERIOR BUILDING ID PAINT		EGGSHELL			

KEY PLAN



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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
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BLDG 9 & 10 - EXTERIOR ELEVATIONS

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

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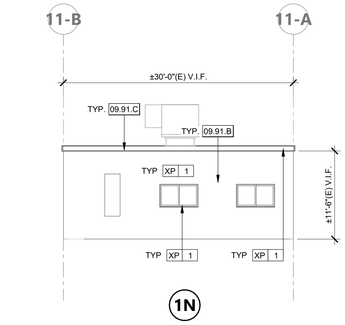

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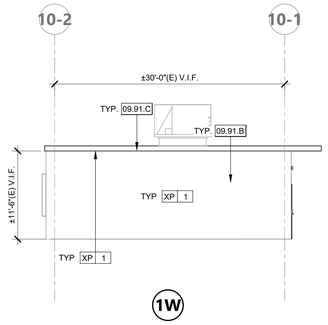

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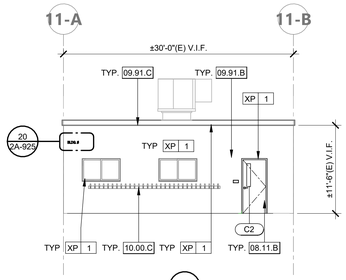

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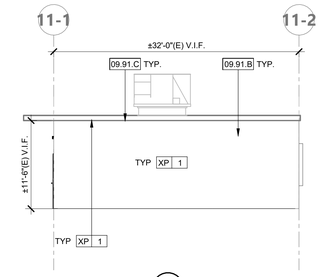
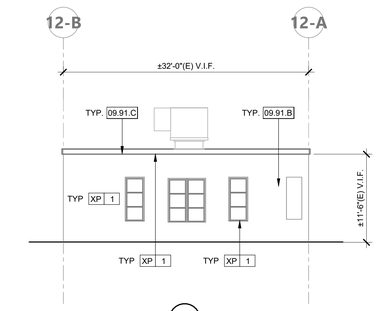


1E

BUILDING 11 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | **1**



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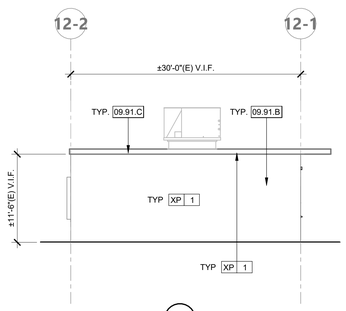

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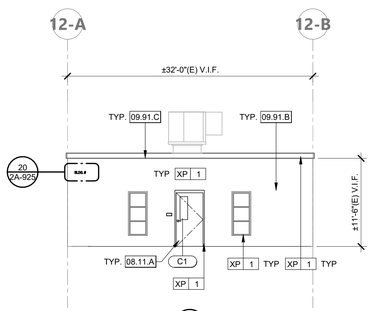

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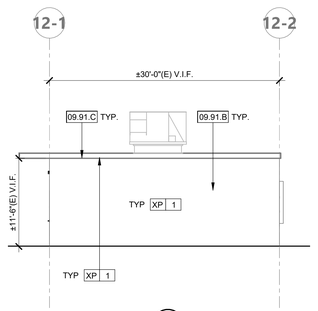


2E

BUILDING 12 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | **2**

KEYNOTES

08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.11.B	(N) WOOD DOOR AND FRAME, PAINTED
09.91.B	ALL EXTERIOR SURFACES ARE TO BE PAINTED, INCLUDING, BUT NOT LIMITED TO, WALLS, WOOD TRIMS, COVERED WALKWAYS, WOOD BENCHES, STRIPING ON CONCRETE WALKWAYS, RAILINGS AND HANDRAILS, EXTERIOR DOORS AND FRAMES, WINDOW FRAMES AND SILLS, AND ANY SIGNAGE OR ARCHITECTURAL FEATURES. REFER TO EXTERIOR PAINTING SCHEDULE
09.91.C	REPAINT METAL FASCIAS, GUTTERS, FLASHINGS, DOWNSPOUTS, CANOPY POSTS OR SUPPORTS, MISCELLANEOUS METALS, AND WALL/HVAC VENTS. REFER TO EXTERIOR PAINTING SCHEDULE
10.00.C	(E) COAT RACK TO BE REMOVED AND REINSTALLED DURING EXTERIOR PAINTING.

EXTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE WINDOW SCHEDULE.
2. PATCH AND REPAIR EXTERIOR SURFACES AS NEEDED OR WHERE INDICATED
3. ALL WALL PATCHS TO BE PAINTED. MATCH EXISTING EXTERIOR WALL COLOR. PROVIDE A FLUSH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
4. EXTERIOR REPAINTING SCOPE OF WORK:
   - A. REPAIR ALL DAMAGED SURFACES TO ACHIEVE A FLUSH, CLEAN FINISH.
   - B. SAND, CLEAN, AND RE-PRIME ALL EXISTING SURFACES.
   - C. REPAINT ALL EXISTING PAINTED SURFACES, INCLUDING BUT NOT LIMITED TO WALLS, WALKWAY SOFFITS, CONDUITS, PIPES, GUTTERS, DOWNSPOUTS, TRIM, AND DOOR AND WINDOW FRAMES OF EXISTING BUILDINGS.
   - D. REPAINT ALL PAINTED SITE EQUIPMENT, INCLUDING BUT NOT LIMITED TO BENCHES, CANOPY POSTS, BASKETBALL EQUIPMENT, AND FREESTANDING WALLS.
   - E. USE COLORS AS SPECIFIED IN THE DISTRICT-APPROVED COLOR PALETTE.
   - F. PAINT ALL DOOR FRAMES, WINDOW FRAMES AS INDICATED ON THE PLANS.

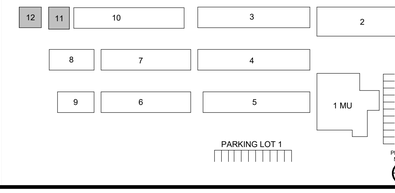
EXTERIOR ELEVATION LEGEND

- A6 — WALL TYPE TAG
- 101AA — DOOR TYPE TAG
- A — WINDOW TYPE TAG
- XP 1 — EXTERIOR PAINT TAG
- (N) WALL INFILL

EXTERIOR PAINTING SCHEDULE

Key Name	DESCRIPTION	MANUFACTURER	FINISH	COLOR	COMMENTS	REMARK
1	EXTERIOR PAINT		EGGSHELL			
2	EXTERIOR ACCENT PAINT		EGGSHELL			
3	EXTERIOR ACCENT PAINT		EGGSHELL			
4	EXTERIOR ACCENT PAINT		EGGSHELL			
5	EXTERIOR FASCIA PAINT		EGGSHELL			
6	EXTERIOR GUTTER PAINT		SEMI-GLOSS			
7	EXTERIOR TRIM PAINT		SEMI-GLOSS			
8	EXTERIOR BUILDING ID PAINT		EGGSHELL			

KEY PLAN



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1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARINA ALVAREZ ARTEAGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 11 & 12 - EXTERIOR ELEVATIONS

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

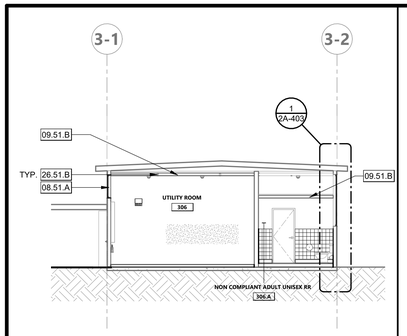
SHEET NO.

2A-306

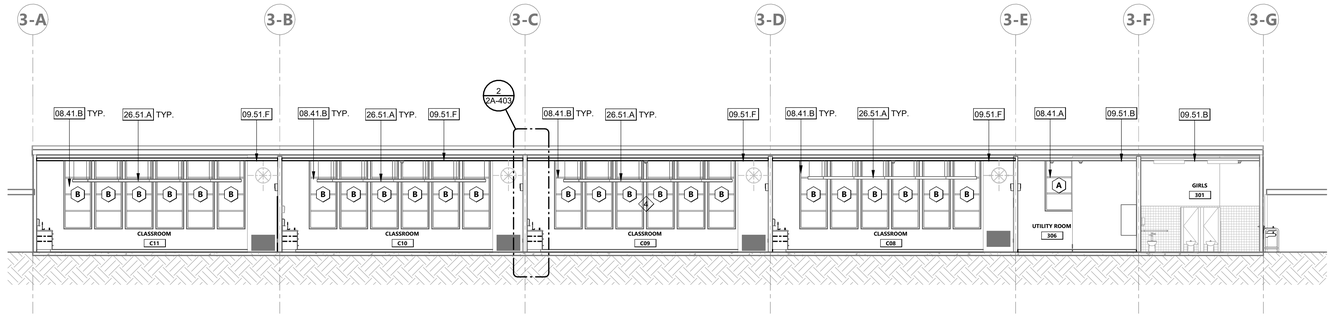
DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:41:30 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



BLDG. 3 - SECTION AA | 1/8" = 1'-0" | 2



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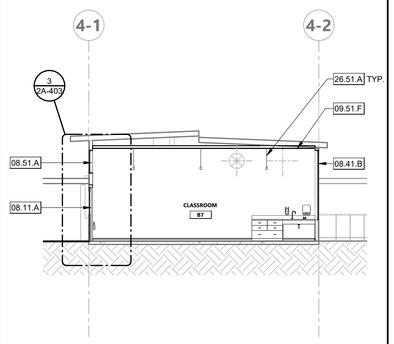

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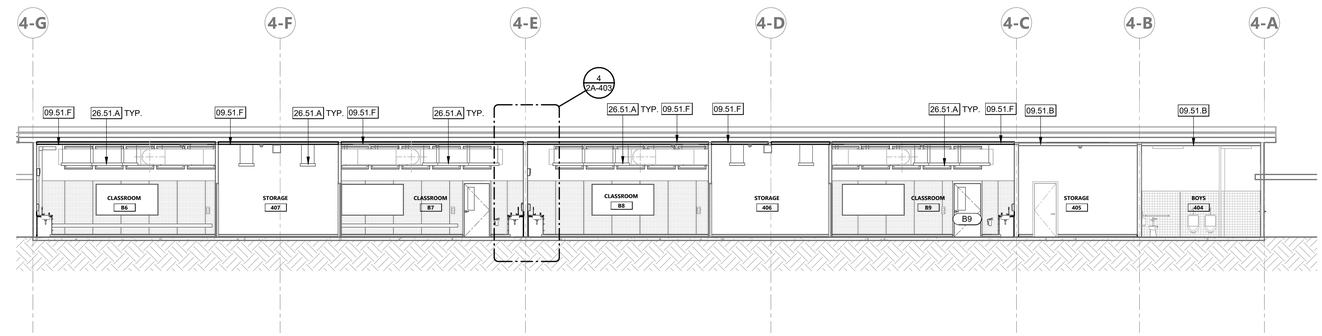

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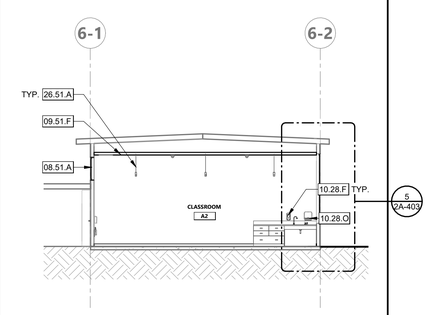
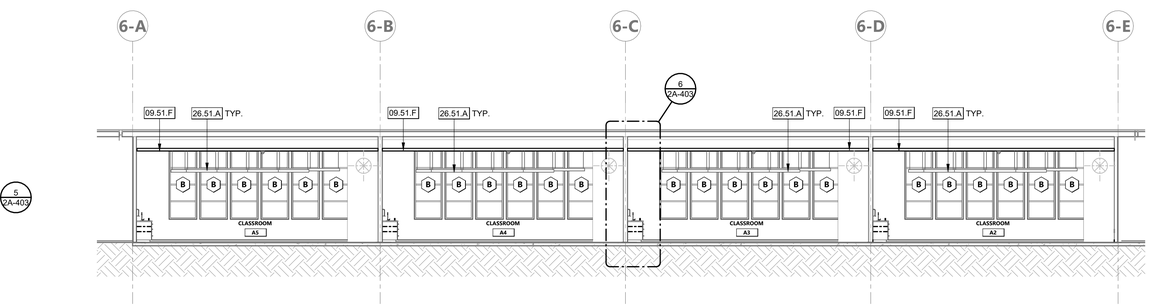
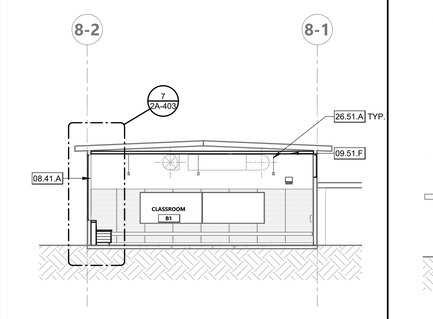


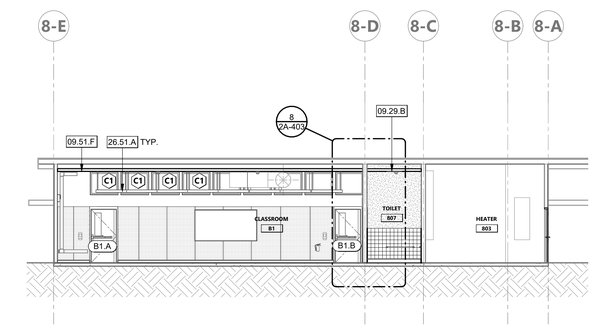
BLDG. 6 - SECTION AA | 1/8" = 1'-0" | 6



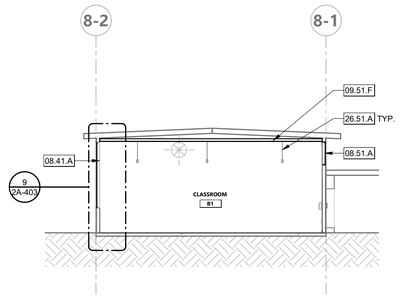
BLDG. 6 - SECTION BB | 1/8" = 1'-0" | 5



BLDG. 8 - SECTION AA | 1/8" = 1'-0" | 7



BLDG. 8 - SECTION BB | 1/8" = 1'-0" | 8



BLDG. 8 - SECTION CC | 1/8" = 1'-0" | 9

KEYNOTES

08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.29.B	5/8" TYPE 'X' MOISTURE & MOLD RESISTANT GYPSUM BOARD, PAINTED
09.51.B	(E) GYPSUM BOARD CEILING TO BE PAINTED AND PATCHED
09.51.F	(N) GYPSUM BOARD PANEL ATTACHED TO EXISTING ROOF FRAMING. REFER TO DETAIL 9/2A-924
10.28.F	(N) WALL MOUNTED HAND SOAP DISPENSER
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
26.51.B	(N) RECESSED LIGHT FIXTURE, S.E.D.

SECTIONS GENERAL NOTES

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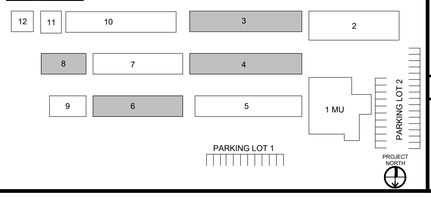
KEY PLAN



AGENCY APPROVAL DSA#

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
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TEL (913) 961-1658

STRUCTURAL ENGINEER
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San Francisco, CA 94104
TEL (415) 466-2997

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Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

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C-36107
REN. 01-31-25
STATE OF CALIFORNIA

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BLDG 3, 4, 6 & 8 - BUILDING SECTIONS

ING.2

DRAWN BY: Author JOB NUMBER: 23118.01

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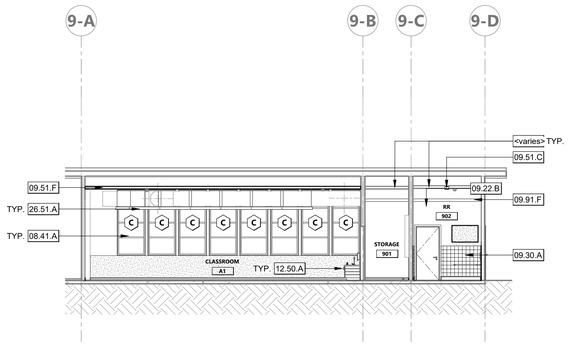
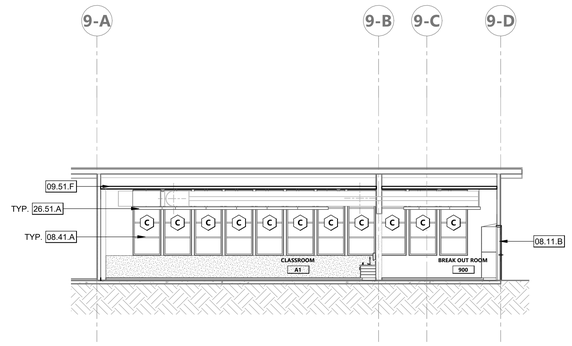
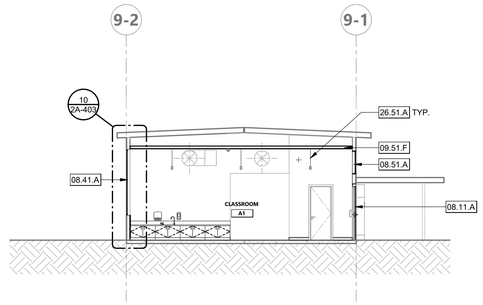


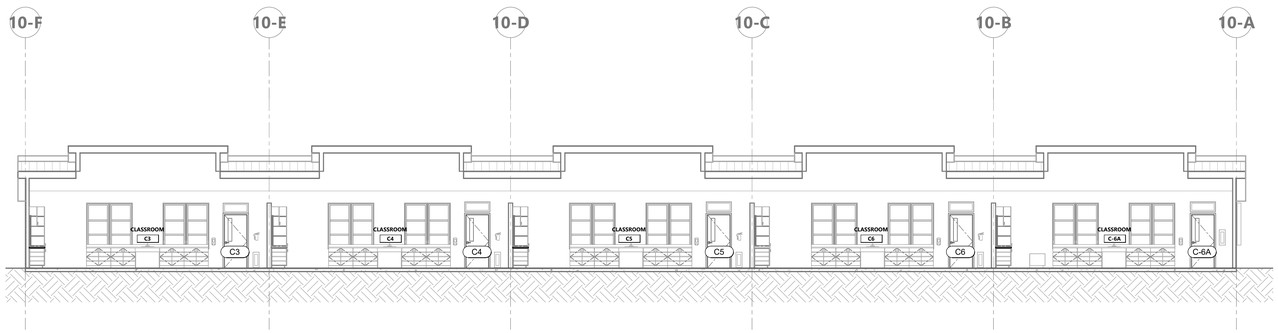
BLDG. 9 - SECTION AA | 1/8" = 1'-0" | **1**



BLDG. 9 - SECTION BB | 1/8" = 1'-0" | **2**



BLDG. 9 - SECTION CC | 1/8" = 1'-0" | **3**



BLDG. 10 - SECTION BB | 1/8" = 1'-0" | **4**

KEYNOTES

08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.11.B	(N) WOOD DOOR AND FRAME, PAINTED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.51.A	(N) CLERESTORY WINDOWS
09.22.B	(N) INFILL WALL. PATCH BACK AND PAINT TO MATCH ADJACENT SURFACES.
09.30.A	(N) CERAMIC TILE. REFER TO FINISH SCHEDULE.
09.51.C	PATCH, SMOOTH, AND PAINT GYP. CEILING TO MATCH ADJACENT SURFACES
09.51.F	(N) GYPSUM BOARD PANEL ATTACHED TO EXISTING ROOF FRAMING. REFER TO DETAIL 9/2A-924
09.91.F	(E) DUCTWORK TO BE PAINTED. MATCH WALL COLOR. SEE FINISH SCHEDULE
12.50.A	(N) PLASTIC LAMINATED FACED ARCHITECTURAL CABINETS
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
<varies>	

SECTIONS GENERAL NOTES

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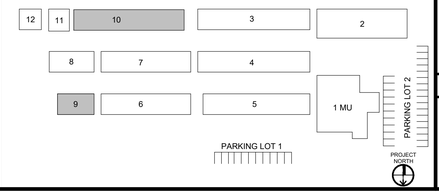

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SHEET TITLE

BLDG 9, 10 - BUILDING SECTIONS

ING 2

DRAWN BY: Author JOB NUMBER: 23118.01

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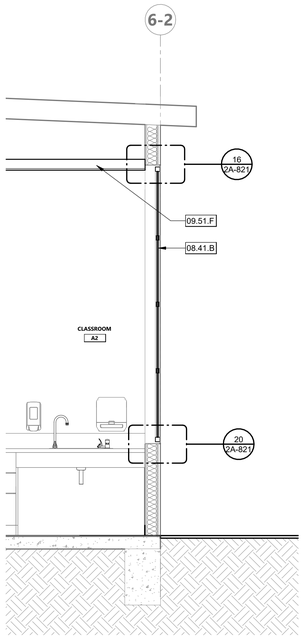
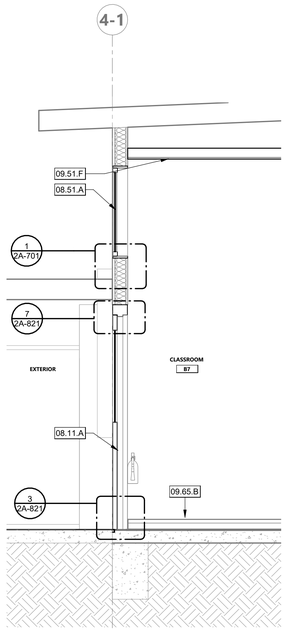
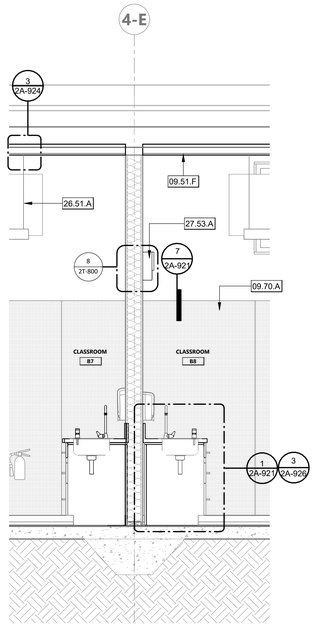


BLDG. 6 - WALL SECTION AA | 1/2" = 1'-0" | 5



BLDG. 4 - WALL SECTION AA | 1/2" = 1'-0" | 3



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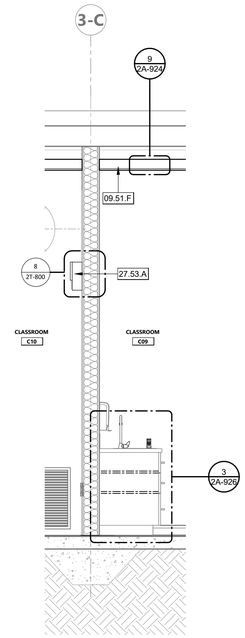

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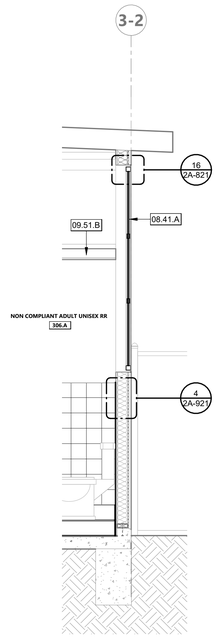

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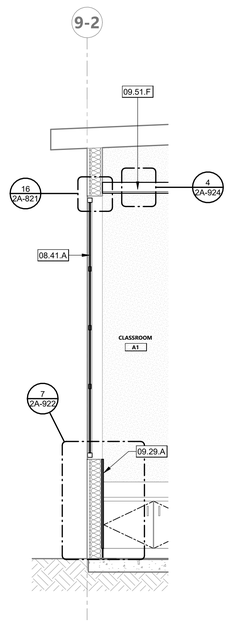
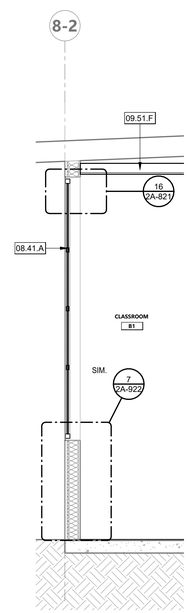


BLDG. 9 - WALL SECTION CC | 1/2" = 1'-0" | 10



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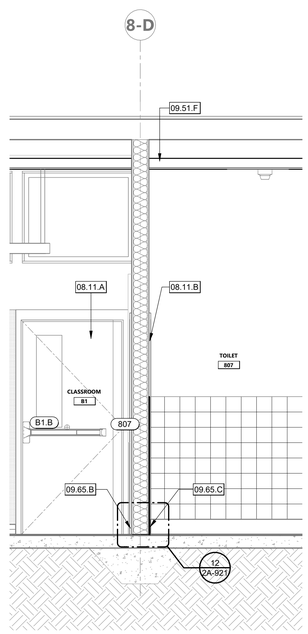

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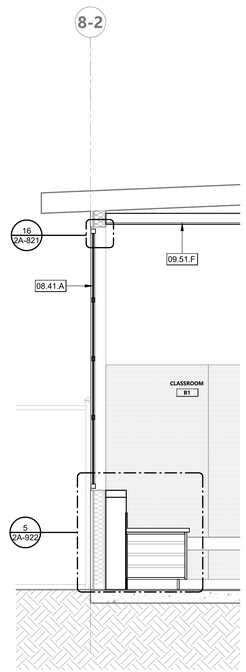

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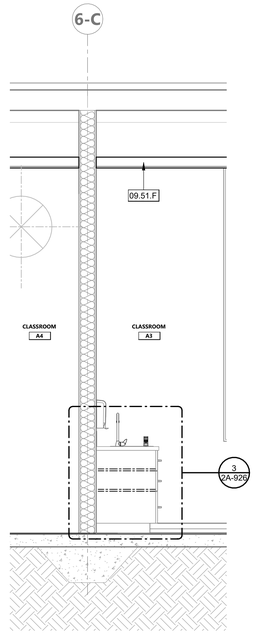

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08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.29.A	(N) 5/8" GYPSUM BOARD BELOW WINDOW SILL, PAINTED WHERE EXPOSED
09.51.B	(E) GYPSUM BOARD CEILING TO BE PAINTED AND PATCHED
09.51.F	(N) GYPSUM BOARD PANEL ATTACHED TO EXISTING ROOF FRAMING. REFER TO DETAIL 9/2A-924
09.65.B	(N) 4" WALL BASE. SEE FINISH SCHEDULE
09.65.C	(N) 6" WALL BASE. SEE FINISH SCHEDULE
09.70.A	(N) TACKABLE WALL PANELS
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
27.53.A	(N) CLOCK/SPEAKER PER TECHNOLOGY DRAWINGS

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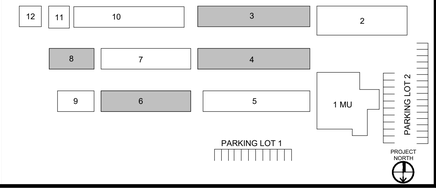

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(530) 885 0040

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LICENSED ARCHITECT · MARIANA S. ALVAREZ-ARGA · C-36107 · REN. 01-31-25 · STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 3, 4, 6, 8 & 9 - WALL SECTIONS

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

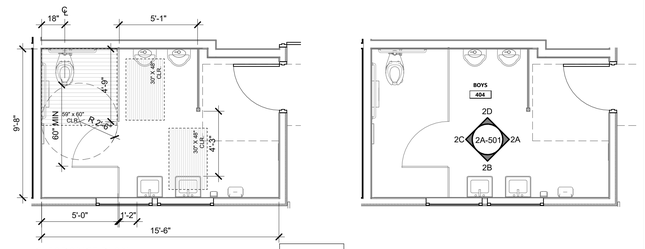
SHEET NO.

2A-403

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:41:45 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

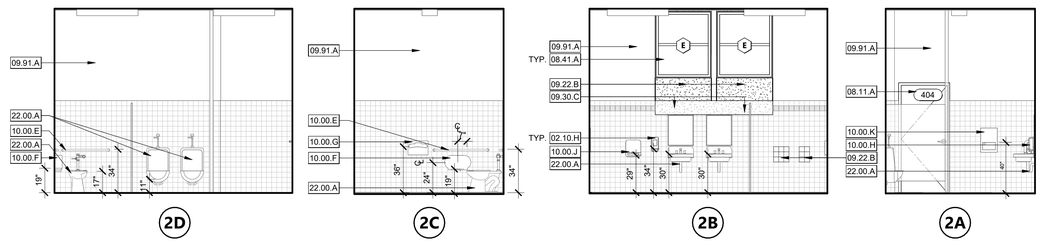


CLEARANCE PLAN
FIELD VERIFY (E) FIXTURES AND ACCESSORIES ARE IN COMPLIANCE WITH 2022 CBC

AGES 9-12

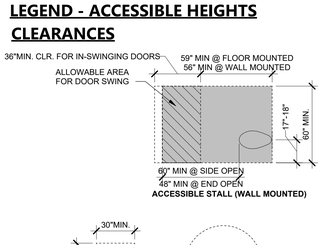
FLOOR PLAN

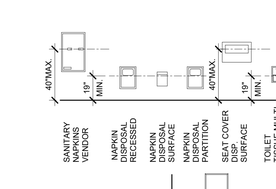
BLDG. 4 - ENLARGED FLOOR PLAN - BOYS RR 404 | 1/4" = 1'-0" | 4



2D 2C 2B 2A

BLDG. 4 - 404 BOYS RR - INTERIOR ELEVATIONS | 1/4" = 1'-0" | 2



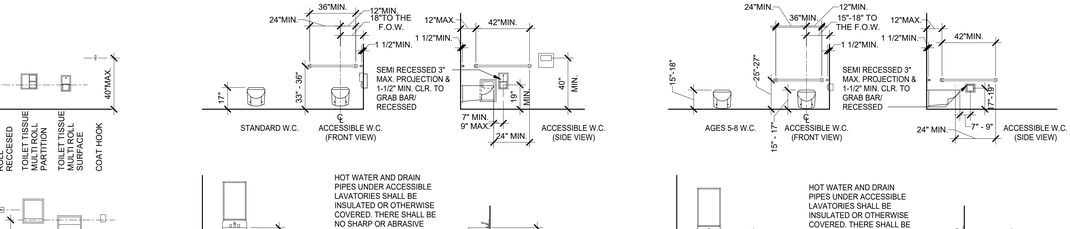


CLEARANCE PLAN
FIELD VERIFY (E) FIXTURES AND ACCESSORIES ARE IN COMPLIANCE WITH 2022 CBC

AGES 9-12

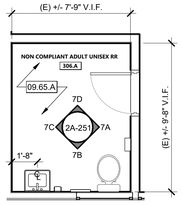
FLOOR PLAN

BLDG. 4 - ENLARGED FLOOR PLAN - GIRLS RR 401 | 1/4" = 1'-0" | 5

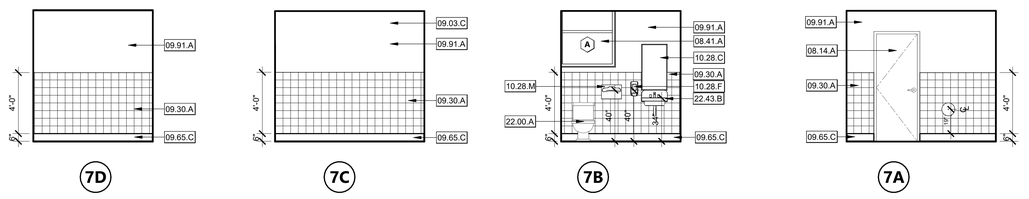


3D 3C 3B 3A

BLDG. 4 - INTERIOR ELEVATIONS - GIRLS RR 401 | 1/4" = 1'-0" | 6



NON COMPLIANT ADULT UNISEX RR 306.A C | 1/4" = 1'-0" | 8



7D 7C 7B 7A

BLDG. 3 - INTERIOR ELEVATIONS - RR 306.A | 1/4" = 1'-0" | 7

KEYNOTES

02.10.H	REMOVE AND REINSTALL (E) SOAP AND HAND SANITIZER DISPENSERS
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.14.A	(N) HARDWARE AT (E) DOOR. DOOR AND FRAME TO BE PAINTED. SEE DOOR SCHEDULE.
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.51.A	(N) CLERESTORY WINDOWS
09.03.C	APPLY SKIM COAT TO (E) SURFACES WHERE TACKABLE, CASEWORK, AND OTHER ITEMS ATTACHED TO THE WALLS HAVE BEEN DEMOLISHED TO ENSURE A CLEAN AND SMOOTH SURFACE FOR INTERIOR PAINTING.
09.22.B	(N) INFILL WALL. PATCH BACK AND PAINT TO MATCH ADJACENT SURFACES.
09.30.A	(N) CERAMIC TILE. REFER TO FINISH SCHEDULE.
09.30.C	(N) CERAMIC TILE OVER GYP. BOARD. CONTINUE WALL TILE LAYOUT TO MATCH EXISTING. USE WOOD VIOLET FOR TILE STRIPING AND ARCTIC WHITE FOR REMAINING TILES
09.65.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.65.C	(N) 6" WALL BASE. SEE FINISH SCHEDULE
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
10.00.E	(E) GRAB BAR
10.00.F	(E) TOILET PAPER TISSUE DISPENSER
10.00.G	(E) TOILET SEAT COVER DISPENSER
10.00.H	(E) HAND SOAP DISPENSER
10.00.J	(E) SURFACE MOUNT PAPER TOWEL DISPENSER
10.00.K	(E) SURFACE MOUNT NAPKIN DISPOSAL
10.28.C	(N) MIRROR, PER MOUNTING DETAILS 8/2A-921
10.28.F	(N) WALL MOUNTED HAND SOAP DISPENSER
10.28.M	(N) SURFACE MOUNT TOILET SEAT PROTECTOR DISPENSER
22.00.A	(E) PLUMBING FIXTURE TO REMAIN
22.43.B	(N) ACC. LAVATORY, PER PLUMBING DRAWINGS

LEGEND - RESTROOM GENERAL NOTES

1. MOUNTING HEIGHTS SHOWN ARE TYPICAL, UNLESS OTHERWISE NOTED.
2. ALL ACCESSORIES SHALL BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 40" ABOVE FINISH FLOOR.
3. SLOPE FLOORS 1/8" PER FOOT MINIMUM AND 1/4" PER FOOT MAXIMUM, UNLESS NOTED OTHERWISE.
4. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS FOR TOILET ACCESSORY LOCATIONS.
5. OWNER FURNISHED ACCESSORIES SHALL BE CONTRACTOR INSTALLED.
6. PROVIDE BACKING FOR GRAB BARS AND SHELVES PER DETAIL.
7. ALL FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENING IN ALL DIRECTIONS SEE DETAILS.
8. ALL DIMENSIONS FOR ACCESS COMPLIANCE ARE TO FACE OF FINISH.
9. PROVIDE UNDER LAVATORY GUARDS, MOLDED VINYL COVERING FOR SUPPLY AND DRAIN PIPING WITH FLIP TOP AT VALVE TO ALLOW SERVICE WITHOUT REMOVING COVERING.
10. THE SPACE BETWEEN WALL AND GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN.
11. SEE 2G 900 FOR TYPICAL FIXTURE AND ACCESSORY PLACEMENT DIMENSIONS

CLEARANCE TO FINISH SURFACE

FIXTURE	ADULT	FOR CHILDREN'S USE AGES 5-8	FOR CHILDREN'S USE AGES 9-12	CBC TABLE 11B-604.9
DISPENSER OR MIRROR HEIGHT	40" MAX.	40" MAX.	40" MAX.	
DRINKING FOUTAIN BUBBLER HEIGHT	36" MAX.	PARALLEL APROACH 30" MAX.	PARALLEL APROACH 30" MAX.	
DRINKING FOUTAIN KNEE CLEARANCE	27" MIN.	27" MIN.	27" MIN.	
HIGH D.F. SPOUT HEIGHT	38"-43"	38"-43"	38"-43"	
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	
T.P. DISPENSER OUTLET(A.F.F., TO CENTER LINE OF OUTLET OR ROLL)	19" MIN.	14"-17"	17"19"	
TOILET CENTERLINE FROM WALL	17"-18"	12"-15"	15"-18"	
TOILET PAPER IN FRONT OF TOILET	7"-9"	7"-9"	7"-9"	
TOILET SEAT HEIGHT (AT SEAT LID)	17"-19"	12"-15"	15"-18"	
TOP OF GRAB BAR HEIGHT	33"-36"	20"-25"	25"-27"	
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	44" MAX.	
URINAL LIP HEIGHT	17" MAX.	17" MAX.	17" MAX.	

LEGEND - ACCESSIBLE HEIGHTS CLEARANCES

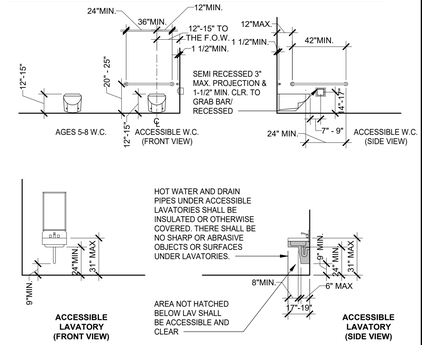
FOR ADDITIONAL ACCESS REQUIREMENTS, SEE VG-900

MOUNTING HEIGHTS

TOILET FIXTURE HEIGHTS - ADULT

TOILET FIXTURE HEIGHTS - CHILDREN AGES 9-12

TOILET FIXTURE HEIGHTS - CHILDREN AGES 5-8



AGENCY APPROVAL DSA#

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ ZEPEDA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

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SHEET TITLE

RESTROOM PLAN ENLARGEMENTS

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

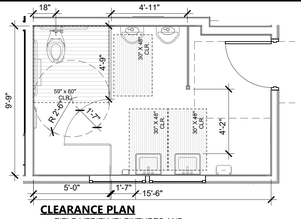
SHEET NO.

2A-501

DATE: SEPTEMBER 27, 2024

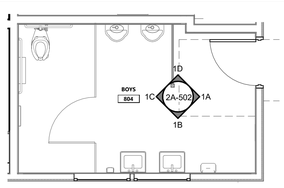
CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:41:53 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



CLEARANCE PLAN

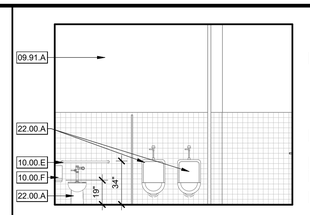
- FIELD VERIFY (E) FIXTURES AND ACCESSORIES ARE IN COMPLIANCE WITH 2022 CBC
- REFER TO STANDARD DIMENSIONS FOR CLEARANCES AND FIXTURES MOUNTING HEIGHTS



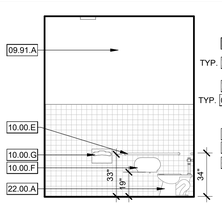
FLOOR PLAN

AGES 9-12

BLDG. 8 - ENLARGED FLOOR PLAN - BOYS RR 804 | 1/4" = 1'-0" | 5



1D



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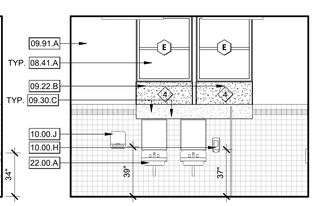

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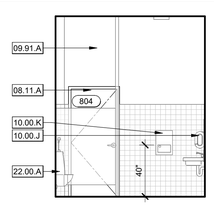
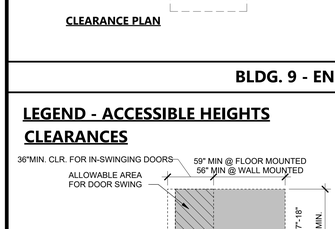


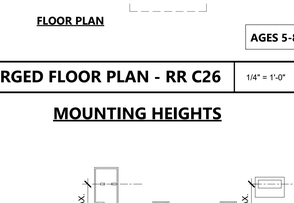
1A

BLDG. 8 - 804 BOYS RR - INTERIOR ELEVATIONS | 1/4" = 1'-0" | 1



CLEARANCE PLAN

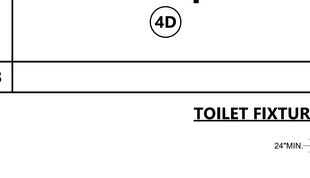
- FIELD VERIFY (E) FIXTURES AND ACCESSORIES ARE IN COMPLIANCE WITH 2022 CBC
- REFER TO STANDARD DIMENSIONS FOR CLEARANCES AND FIXTURES MOUNTING HEIGHTS



FLOOR PLAN

AGES 9-12

BLDG. 8 - ENLARGED FLOOR PLAN - GIRLS RR 801 | 1/4" = 1'-0" | 6



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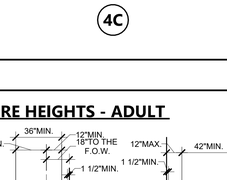

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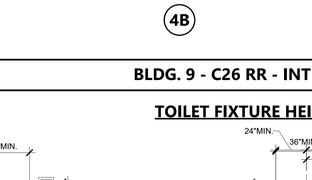

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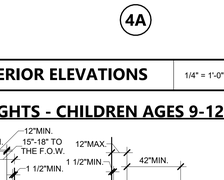

2A

BLDG. 8 - 801 GIRLS RR - INTERIOR ELEVATIONS | 1/4" = 1'-0" | 2

CLEARANCE PLAN

FLOOR PLAN

AGES 5-8

BLDG. 8 - ENLARGED FLOOR PLAN - RR 807 | 1/4" = 1'-0" | 7

3D

3C

3B

3A

BLDG. 8 - 807 RR - INTERIOR ELEVATIONS | 1/4" = 1'-0" | 3

CLEARANCE PLAN

FLOOR PLAN

AGES 5-8

BLDG. 9 - ENLARGED FLOOR PLAN - RR C26 | 1/4" = 1'-0" | 8

4D

4C

4B

4A

BLDG. 9 - C26 RR - INTERIOR ELEVATIONS | 1/4" = 1'-0" | 4

LEGEND - ACCESSIBLE HEIGHTS CLEARANCES

FOR ADDITIONAL ACCESS REQUIREMENTS, SEE CG-900

MOUNTING HEIGHTS

TOILET FIXTURE HEIGHTS - ADULT

TOILET FIXTURE HEIGHTS - CHILDREN AGES 9-12

TOILET FIXTURE HEIGHTS - CHILDREN AGES 5-8

KEYNOTES

02.10.F	(E) PTD, HSD, TSCD AND TTD TO BE REMOVED AND REINSTALLED AFTER (N) RR FINISHES
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.51.A	(N) CLERESTORY WINDOWS
09.22.A	(N) PARTITION WALL
09.22.B	(N) INFILL WALL. PATCH BACK AND PAINT TO MATCH ADJACENT SURFACES.
09.30.A	(N) CERAMIC TILE. REFER TO FINISH SCHEDULE.
09.30.C	(N) CERAMIC TILE OVER GYP. BOARD. CONTINUE WALL TILE LAYOUT TO MATCH EXISTING. USE WOOD VIOLET FOR TILE STRIPING AND ARCTIC WHITE FOR REMAINING TILES
09.65.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.65.C	(N) 6" WALL BASE. SEE FINISH SCHEDULE
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
09.91.F	(E) DUCTWORK TO BE PAINTED. MATCH WALL COLOR. SEE FINISH SCHEDULE
10.00.E	(E) GRAB BAR
10.00.F	(E) TOILET PAPER TISSUE DISPENSER
10.00.G	(E) TOILET SEAT COVER DISPENSER
10.00.H	(E) HAND SOAP DISPENSER
10.00.J	(E) SURFACE MOUNT PAPER TOWEL DISPENSER
10.00.K	(E) SURFACE MOUNT NAPKIN DISPOSAL
10.28.A	(N) GRAB BAR. MAINTAIN 1-1/2" CLEAR AROUND/BELOW GRAB BAR. PER MOUNTING DETAILS 5/2A-921
10.28.L	(N) SURFACE MOUNT TOILET TISSUE DISPENSER
10.28.M	(N) SURFACE MOUNT TOILET SEAT PROTECTOR DISPENSER
10.28.N	(N) SURFACE MOUNT SOAP AND HAND SANITIZER DISPENSERS, PER MANUFACTURER'S MOUNTING DETAILS
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER
22.00.A	(E) PLUMBING FIXTURE TO REMAIN
22.43.B	(N) ACC. LAVATORY, PER PLUMBING DRAWINGS
22.43.C	(N) ACC. WATER CLOSET PER PLUMBING DRAWINGS

LEGEND - RESTROOM GENERAL NOTES

1. MOUNTING HEIGHTS SHOWN ARE TYPICAL, UNLESS OTHERWISE NOTED.
2. ALL ACCESSORIES SHALL BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 40" ABOVE FINISH FLOOR.
3. SLOPE FLOORS 1/8" PER FOOT MINIMUM AND 1/4" PER FOOT MAXIMUM, UNLESS NOTED OTHERWISE.
4. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS FOR TOILET ACCESSORY LOCATIONS.
5. OWNER FURNISHED ACCESSORIES SHALL BE CONTRACTOR INSTALLED.
6. PROVIDE BACKING FOR GRAB BARS AND SHELVES PER DETAIL.
7. ALL FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENING IN ALL DIRECTIONS SEE DETAILS.
8. ALL DIMENSIONS FOR ACCESS COMPLIANCE ARE TO FACE OF FINISH.
9. PROVIDE UNDER LAVATORY GUARDS, MOLDED VINYL COVERING FOR SUPPLY AND DRAIN PIPING WITH FLIP TOP AT VALVE TO ALLOW SERVICE WITHOUT REMOVING COVERING.
10. THE SPACE BETWEEN WALL AND GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN.
11. SEE 2G 900 FOR TYPICAL FIXTURE AND ACCESSORY PLACEMENT DIMENSIONS

INTERIOR ELEVATION LEGEND

CLEARANCE TO FINISH SURFACE

FIXTURE	ADULT	FOR CHILDREN'S USE AGES 5-8	FOR CHILDREN'S USE AGES 9-12	CBC TABLE 11B-604.9
DISPENSER OR MIRROR HEIGHT	40" MAX.	40" MAX.	40" MAX.	
DRINKING FOUTAIN BUBBLER HEIGHT	36" MAX.	PARALLEL APROACH 30" MAX.	PARALLEL APROACH 30" MAX.	
DRINKING FOUTAIN KNEE CLEARANCE	27" MIN.	27" MIN.	27" MIN.	
HIGH D.F. SPOUT HEIGHT	38"-43"	38"-43"	38"-43"	
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	
T.P. DISPENSER OUTLET(A.F.F., TO CENTER LINE OF OUTLET OR ROLL)	19" MIN.	14"-17"	17"19"	
TOILET CENTERLINE FROM WALL	17"-18"	12"-15"	15"-18"	
TOILET PAPER IN FRONT OF TOILET	7"-9"	7"-9"	7"-9"	
TOILET SEAT HEIGHT (AT SEAT LID)	17"-19"	12"-15"	15"-18"	
TOP OF GRAB BAR HEIGHT	33"-36"	20"-25"	25"-27"	
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	44" MAX.	
URINAL LIP HEIGHT	17" MAX.	17" MAX.	17" MAX.	

AGENCY APPROVAL DSA#

196

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ VEGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

RESTROOM PLAN ENLARGEMENTS

INC 2

DRAWN BY: Author JOB NUMBER: 23118.01

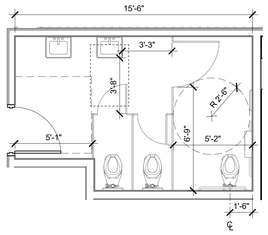
SHEET NO.

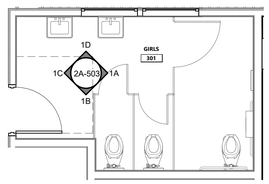
2A-502

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:42:03 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt





CLEARANCE PLAN

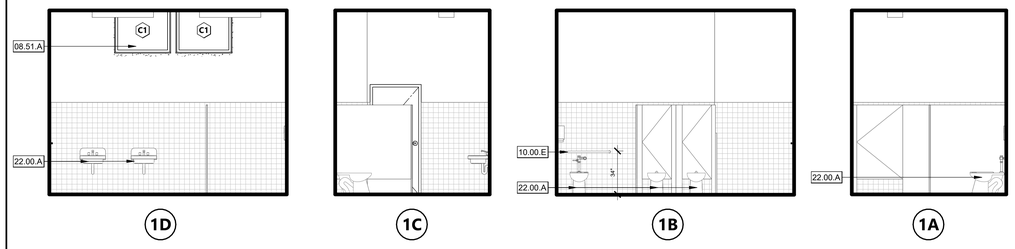
- FIELD VERIFY (E) FIXTURES AND ACCESSORIES ARE IN COMPLIANCE WITH 2022 CBC
- REFER TO STANDARD DIMENSIONS FOR CLEARANCES AND FIXTURES MOUNTING HEIGHTS

FLOOR PLAN

AGES 9-12

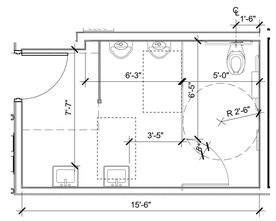
BLDG. 3 - ENLARGED FLOOR PLAN - GIRLS RR 301

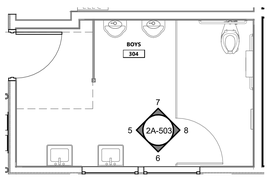
1/4" = 1'-0" | 2



BLDG. 3 - GIRLS RR 301 - INTERIOR ELEVATIONS

1/4" = 1'-0" | 1





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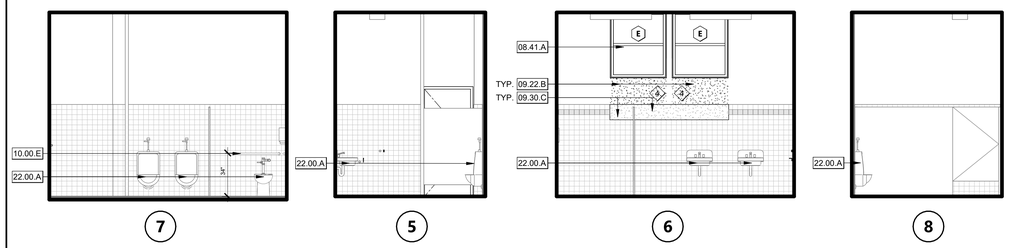
AGES 9-12

BLDG. 3 - ENLARGED FLOOR PLAN - BOYS RR 304

1/4" = 1'-0" | 4



BLDG. 3 - BOYS RR 304 - INTERIOR ELEVATIONS

1/4" = 1'-0" | 3

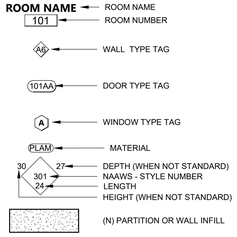
KEYNOTES

08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.51.A	(N) CLERESTORY WINDOWS
09.22.B	(N) INFILL WALL. PATCH BACK AND PAINT TO MATCH ADJACENT SURFACES.
09.30.C	(N) CERAMIC TILE OVER GYP. BOARD. CONTINUE WALL TILE LAYOUT TO MATCH EXISTING. USE WOOD VIOLET FOR TILE STRIPING AND ARCTIC WHITE FOR REMAINING TILES
10.00.E	(E) GRAB BAR
22.00.A	(E) PLUMBING FIXTURE TO REMAIN

LEGEND - RESTROOM GENERAL NOTES

1. MOUNTING HEIGHTS SHOWN ARE TYPICAL, UNLESS OTHERWISE NOTED.
2. ALL ACCESSORIES SHALL BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 40" ABOVE FINISH FLOOR.
3. SLOPE FLOORS 1/8" PER FOOT MINIMUM AND 1/4" PER FOOT MAXIMUM, UNLESS NOTED OTHERWISE.
4. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS FOR TOILET ACCESSORY LOCATIONS.
5. OWNER FURNISHED ACCESSORIES SHALL BE CONTRACTOR INSTALLED.
6. PROVIDE BACKING FOR GRAB BARS AND SHELVES PER DETAIL.
7. ALL FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENING IN ALL DIRECTIONS SEE DETAILS.
8. ALL DIMENSIONS FOR ACCESS COMPLIANCE ARE TO FACE OF FINISH.
9. PROVIDE UNDER LAVATORY GUARDS, MOLDED VINYL COVERING FOR SUPPLY AND DRAIN PIPING WITH FLIP TOP AT VALVE TO ALLOW SERVICE WITHOUT REMOVING COVERING.
10. THE SPACE BETWEEN WALL AND GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN.
11. SEE 2G 900 FOR TYPICAL FIXTURE AND ACCESSORY PLACEMENT DIMENSIONS

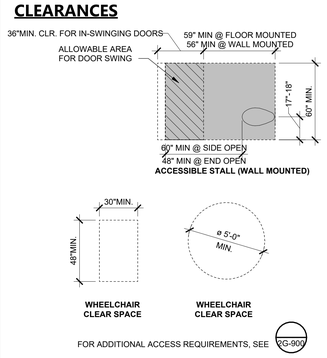
INTERIOR ELEVATION LEGEND



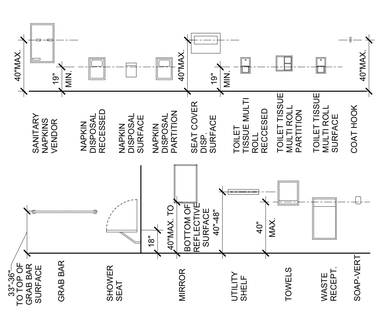
CLEARANCE TO FINISH SURFACE

FIXTURE	ADULT	FOR CHILDREN'S USE AGES 5-8	FOR CHILDREN'S USE AGES 9-12	CBC TABLE 11B-604.9
DISPENSER OR MIRROR HEIGHT	40" MAX.	40" MAX	40" MAX.	
DRINKING FOUTAIN BUBBLER HEIGHT	36" MAX.	PARALLEL APROACH 30" MAX.	PARALLEL APROACH 30" MAX.	
DRINKING FOUTAIN KNEE CLEARANCE	27" MIN.	27" MIN.	27" MIN.	
HIGH D.F. SPOUT HEIGHT	38"-43"	38"-43"	38"-43"	
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	
T.P. DISPENSER OUTLET(A.F.F., TO CENTER LINE OF OUTLET OR ROLL)	19" MIN.	14"-17"	17"19"	
TOILET CENTERLINE FROM WALL	17"-18"	12"-15"	15"-18"	
TOILET PAPER IN FRONT OF TOILET	7"-9"	7"-9"	7"-9"	
TOILET SEAT HEIGHT (AT SEAT LID)	17"-19"	12"-15"	15"-18"	
TOP OF GRAB BAR HEIGHT	33"-36"	20"-25"	25"-27"	
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	44" MAX.	
URINAL LIP HEIGHT	17" MAX.	17" MAX.	17" MAX.	

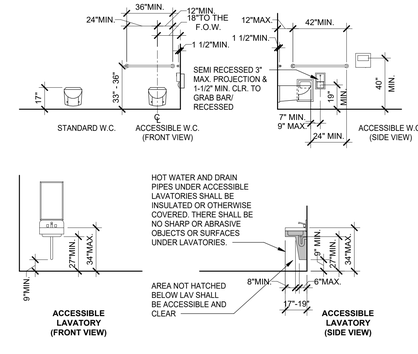
LEGEND - ACCESSIBLE HEIGHTS CLEARANCES



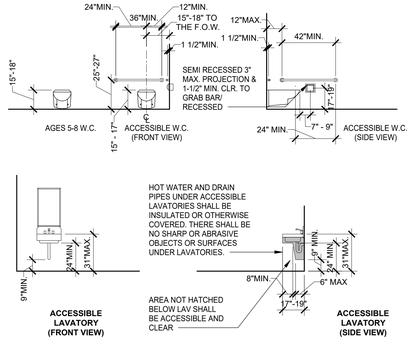
MOUNTING HEIGHTS



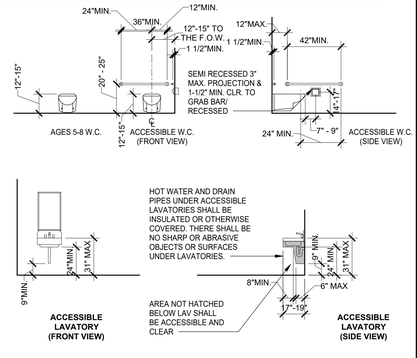
TOILET FIXTURE HEIGHTS - ADULT



TOILET FIXTURE HEIGHTS - CHILDREN AGES 9-12



TOILET FIXTURE HEIGHTS - CHILDREN AGES 5-8



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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
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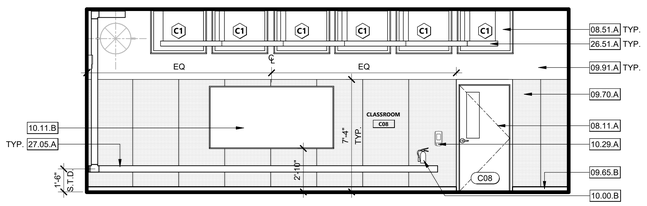

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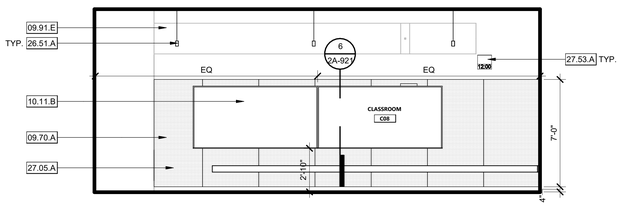

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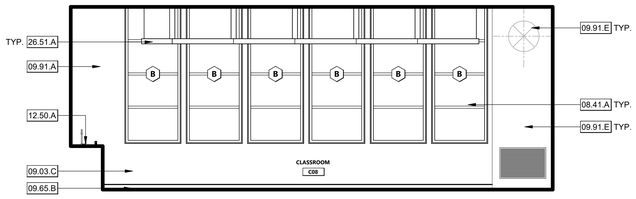

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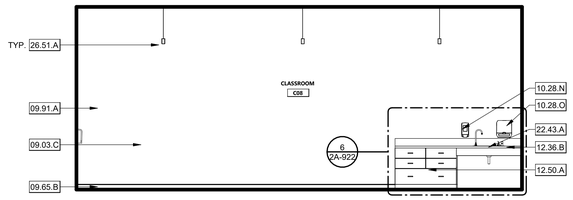

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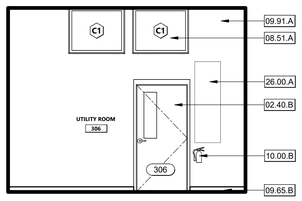
BUILDING 3 - CLASSROOM - C08 | 1/4" = 1'-0" | 1



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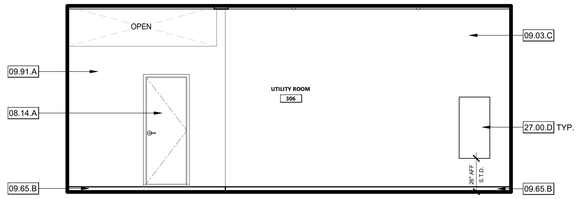

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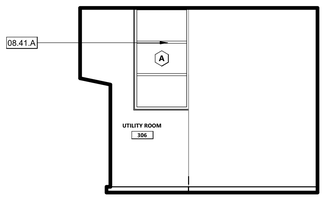

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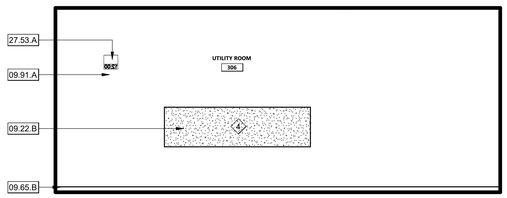


2W

BUILDING 3 - STORAGE - 306 | 1/4" = 1'-0" | 2

KEYNOTES

02.40.B	(E) EXTERIOR WALL TO BE DEMOLISHED FOR (N) 7' HIGH FRP DOOR
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.14.A	(N) HARDWARE AT (E) DOOR. DOOR AND FRAME TO BE PAINTED. SEE DOOR SCHEDULE.
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.51.A	(N) CLERESTORY WINDOWS
09.03.C	APPLY SKIM COAT TO (E) SURFACES WHERE TACKABLE, CASEWORK, AND OTHER ITEMS ATTACHED TO THE WALLS HAVE BEEN DEMOLISHED TO ENSURE A CLEAN AND SMOOTH SURFACE FOR INTERIOR PAINTING.
09.22.B	(N) INFILL WALL. PATCH BACK AND PAINT TO MATCH ADJACENT SURFACES.
09.65.B	(N) 4" WALL BASE. SEE FINISH SCHEDULE
09.70.A	(N) TACKABLE WALL PANELS
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
09.91.E	(N) PAINT AT EXISTING HVAC HOUSING AND DUCTWORK TO MATCH WALL COLOR, COVER AND PROTECT VENTS DURING PAINTING. SEE FINISH SCHEDULE
10.00.B	(E) FIRE EXTINGUISHER TO BE REMOVED/PROTECTED AND REINSTALLED. SEE INTERIOR ELEVATIONS FOR LOCATION.
10.11.B	(N) WALL MOUNTED WHITEBOARD PER 6/2A-921
10.28.N	(N) SURFACE MOUNT SOAP AND HAND SANITIZER DISPENSERS, PER MANUFACTURER'S MOUNTING DETAILS
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER
10.29.A	SAVALGED MOTION-ACTIVATED HAND SANITIZER DISPENSER TO BE MOUNTED AT 40" AFF.
12.36.B	SOLID SURFACE COUNTERTOP. 4" BACKSPLASH, TYP. 24" MIN BACKSPLASH @ SINKS.
12.50.A	(N) PLASTIC LAMINATED FACED ARCHITECTURAL CABINETS
22.43.A	(N) ACCESSIBLE SINK. FOR ADULTS & AGES 9-12 REFER TO DETAIL 1/2A-921. FOR AGES 5-8 REFER TO DETAIL 2/2A-921. S.MP.D.
26.00.A	(E) ELECTRICAL PANEL. S.E.D.
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
27.00.D	(N) IDF CABINET. S.T.D.
27.05.A	(N) SURFACE RACEWAY. S.T.D.
27.53.A	(N) CLOCK/SPEAKER PER TECHNOLOGY DRAWINGS

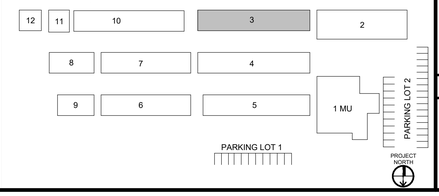
LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET 2A-811.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.
3. LIGHT SWITCHES TO BE MOUNTED AT 45" FROM FF

INTERIOR ELEVATION LEGEND

ROOM NAME — ROOM NAME
101 — ROOM NUMBER
AW — WALL TYPE TAG
101AA — DOOR TYPE TAG
A — WINDOW TYPE TAG
PLAM — MATERIAL
30 / 301 / 24 / 27 — DEPTH (WHEN NOT STANDARD); NAAWS - STYLE NUMBER; LENGTH; HEIGHT (WHEN NOT STANDARD)
(N) PARTITION OR WALL INFILL

KEY PLAN



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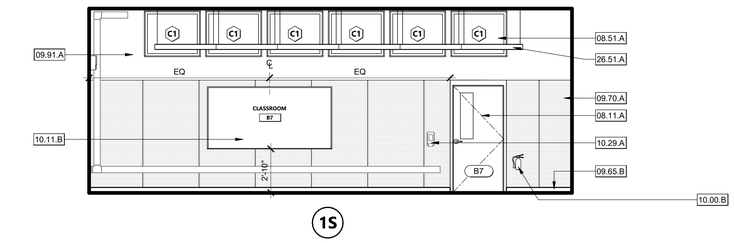

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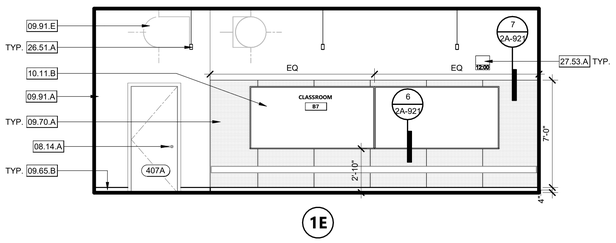

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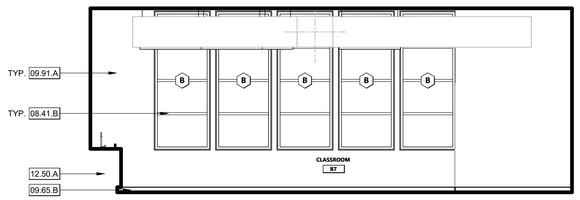

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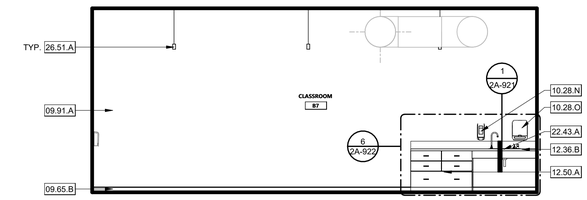

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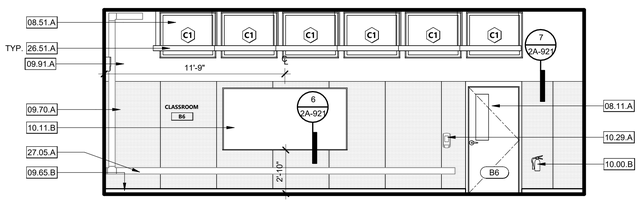
BUILDING 4 - CLASSROOM - B7 & B9 | 1/4" = 1'-0" | 1



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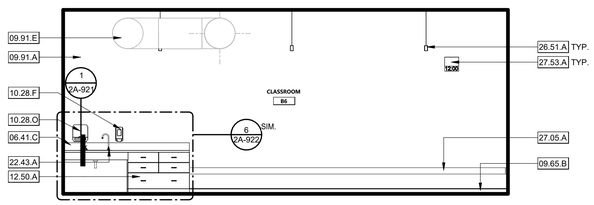
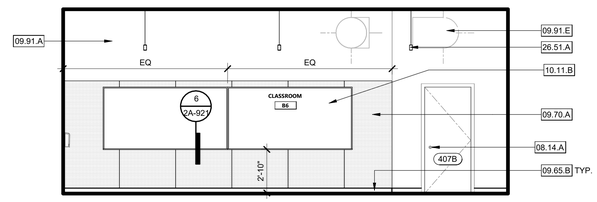


2E



2N



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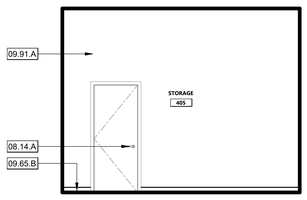
BUILDING 4 - CLASSROOM - B6 & B8 | 1/4" = 1'-0" | 2



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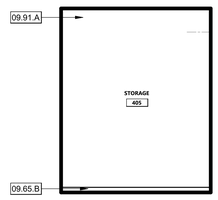

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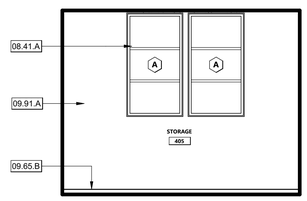

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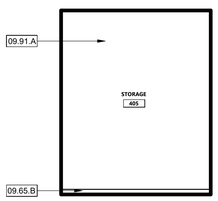

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BUILDING 4 - STORAGE- 405 | 1/4" = 1'-0" | 3

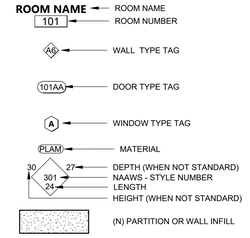
KEYNOTES

06.41.C	PLASTIC LAMINATED COUNTERTOP 6" BACKSPLASH, TYP.
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.14.A	(N) HARDWARE AT (E) DOOR. DOOR AND FRAME TO BE PAINTED. SEE DOOR SCHEDULE.
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.65.B	(N) 4" WALL BASE. SEE FINISH SCHEDULE
09.70.A	(N) TACKABLE WALL PANELS
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
09.91.E	(N) PAINT AT EXISTING HVAC HOUSING AND DUCTWORK TO MATCH WALL COLOR, COVER AND PROTECT VENTS DURING PAINTING. SEE FINISH SCHEDULE
10.00.B	(E) FIRE EXTINGUISHER TO BE REMOVED/PROTECTED AND REINSTALLED. SEE INTERIOR ELEVATIONS FOR LOCATION.
10.11.B	(N) WALL MOUNTED WHITEBOARD PER 6/2A-921
10.28.F	(N) WALL MOUNTED HAND SOAP DISPENSER
10.28.N	(N) SURFACE MOUNT SOAP AND HAND SANITIZER DISPENSERS, PER MANUFACTURER'S MOUNTING DETAILS
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER
10.29.A	SAVALGED MOTION-ACTIVATED HAND SANITIZER DISPENSER TO BE MOUNTED AT 40" AFF.
12.36.B	SOLID SURFACE COUNTERTOP. 4" BACKSPLASH, TYP. 24" MIN BACKSPLASH @ SINKS.
12.50.A	(N) PLASTIC LAMINATED FACED ARCHITECTURAL CABINETS
22.43.A	(N) ACCESSIBLE SINK. FOR ADULTS & AGES 9-12 REFER TO DETAIL 1/2A-921. FOR AGES 5-8 REFER TO DETAIL 2/2A-921. S.MP.D.
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
27.05.A	(N) SURFACE RACEWAY. S.T.D.
27.53.A	(N) CLOCK/SPEAKER PER TECHNOLOGY DRAWINGS

LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET 2A-811.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.
3. LIGHT SWITCHES TO BE MOUNTED AT 45° FROM FF

INTERIOR ELEVATION LEGEND



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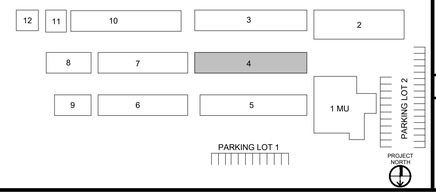

AGENCY APPROVAL DSA#

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

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San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARIANA ALVAREZ ORTEGA
C-36107
REN. 01-31-25
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 4 - INTERIOR ELEVATIONS

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

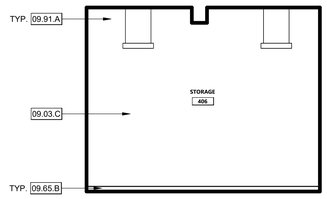
SHEET NO.

2A-602

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:42:19 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDIUSD_RIO VISTA ES MOD_INC02_A22.rvt



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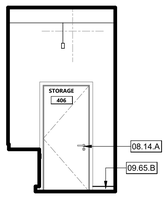

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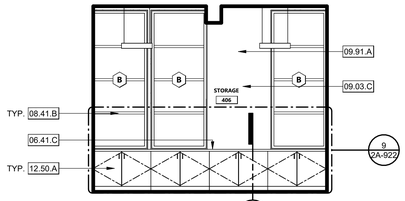

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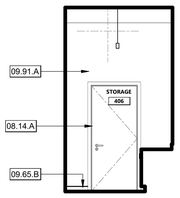

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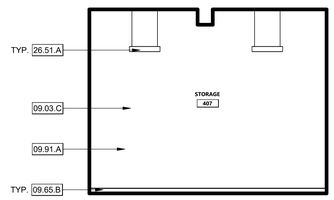
BUILDING 4 - STORAGE - 406 | 1/4" = 1'-0" | **1**



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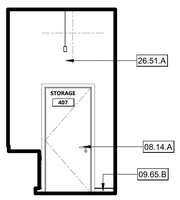

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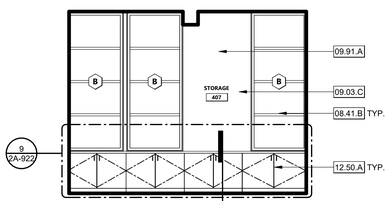

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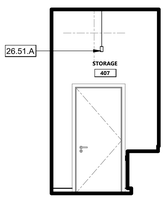

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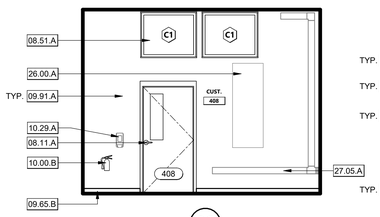
BUILDING 4 - STORAGE - 407 | 1/4" = 1'-0" | **2**



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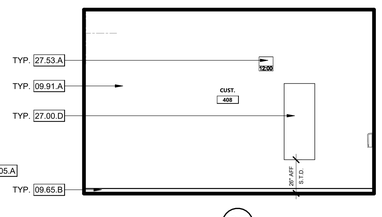

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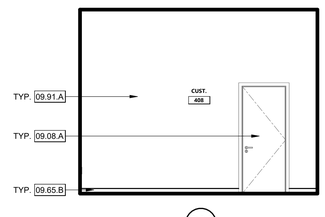

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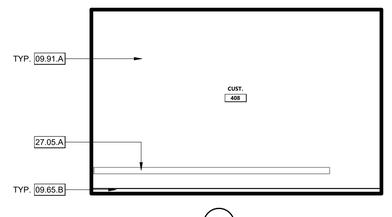
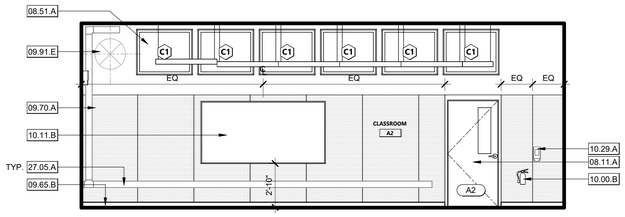


3W

BUILDING 4 - CUST. - 408 | 1/4" = 1'-0" | **3**



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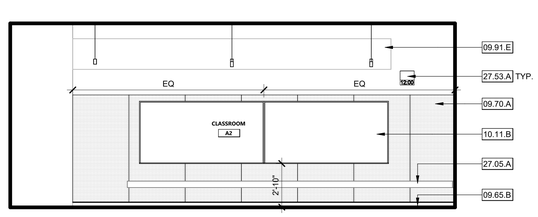

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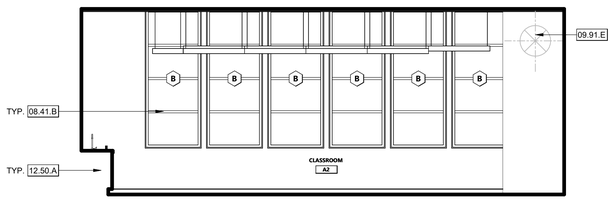

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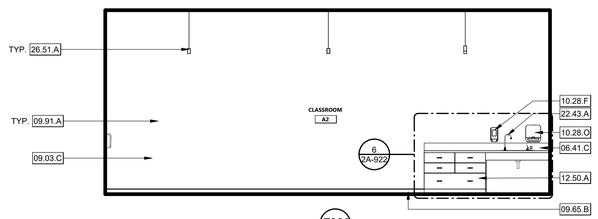


5W

BUILDING 6 - CLASSROOM - A2 | 1/4" = 1'-0" | **5**

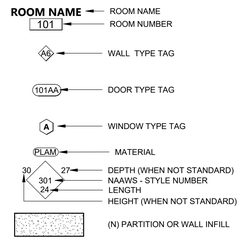
KEYNOTES

06.41.C	PLASTIC LAMINATED COUNTERTOP 6" BACKSPLASH, TYP.
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.14.A	(N) HARDWARE AT (E) DOOR. DOOR AND FRAME TO BE PAINTED. SEE DOOR SCHEDULE.
08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.03.C	APPLY SKIM COAT TO (E) SURFACES WHERE TACKABLE, CASEWORK, AND OTHER ITEMS ATTACHED TO THE WALLS HAVE BEEN DEMOLISHED TO ENSURE A CLEAN AND SMOOTH SURFACE FOR INTERIOR PAINTING.
09.08.A	(N) PAINTING AT EXISTING WOOD DOOR AND FRAME
09.65.B	(N) 4" WALL BASE. SEE FINISH SCHEDULE
09.70.A	(N) TACKABLE WALL PANELS
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
09.91.E	(N) PAINT AT EXISTING HVAC HOUSING AND DUCTWORK TO MATCH WALL COLOR, COVER AND PROTECT VENTS DURING PAINTING. SEE FINISH SCHEDULE
10.00.B	(E) FIRE EXTINGUISHER TO BE REMOVED/PROTECTED AND REINSTALLED. SEE INTERIOR ELEVATIONS FOR LOCATION.
10.11.B	(N) WALL MOUNTED WHITEBOARD PER 6/2A-921
10.28.F	(N) WALL MOUNTED HAND SOAP DISPENSER
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER
10.29.A	SAVALGED MOTION-ACTIVATED HAND SANITIZER DISPENSER TO BE MOUNTED AT 40" AFF.
12.50.A	(N) PLASTIC LAMINATED FACED ARCHITECTURAL CABINETS
22.43.A	(N) ACCESSIBLE SINK. FOR ADULTS & AGES 9-12 REFER TO DETAIL 1/2A-921. FOR AGES 5-8 REFER TO DETAIL 2/2A-921. S.MP.D.
26.00.A	(E) ELECTRICAL PANEL. S.E.D.
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
27.00.D	(N) IDF CABINET. S.T.D.
27.05.A	(N) SURFACE RACEWAY. S.T.D.
27.53.A	(N) CLOCK/SPEAKER PER TECHNOLOGY DRAWINGS

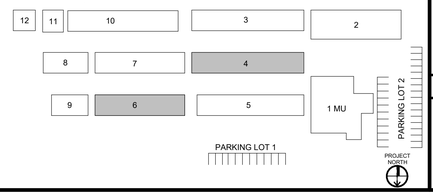
LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET 2A-811.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.
3. LIGHT SWITCHES TO BE MOUNTED AT 45" FROM FF

INTERIOR ELEVATION LEGEND



KEY PLAN



AGENCY APPROVAL DSA#

196

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
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3533 York Ln.
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STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
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5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARIANA ALVAREZ ARGA
C-36107
REN. 01-31-25
STATE OF CALIFORNIA

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611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 4 & 6 - INTERIOR ELEVATIONS

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

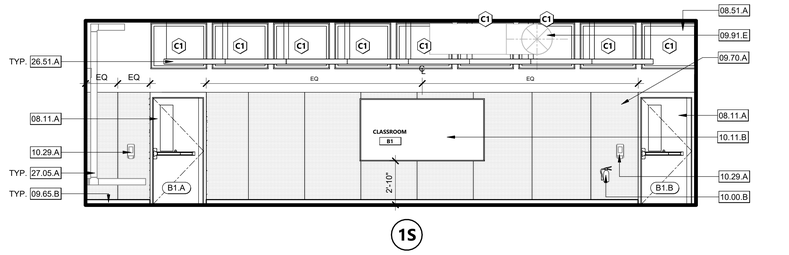
SHEET NO.

2A-603

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:42:25 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



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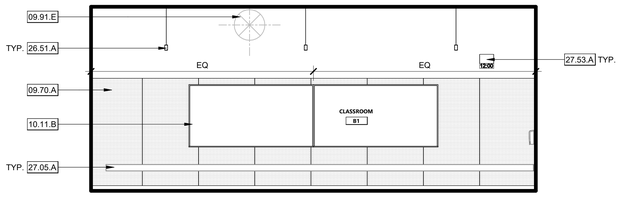

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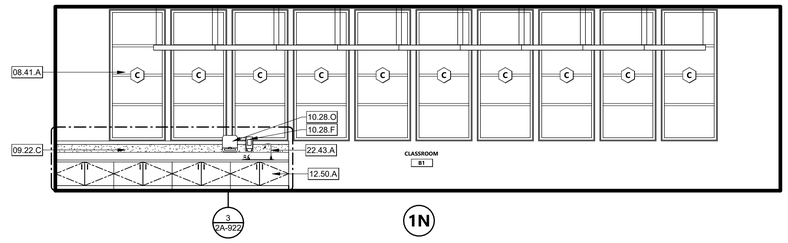

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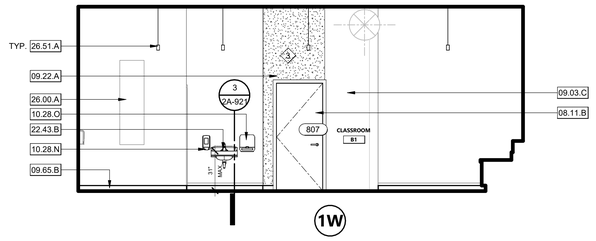

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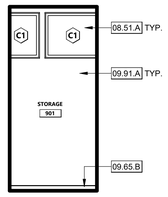
AGES 5-8

BUILDING 8 - CLASSROOM B1 | 1/4" = 1'-0" | 1



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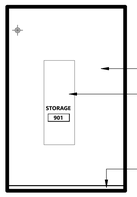

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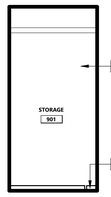

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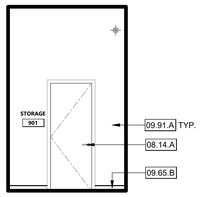

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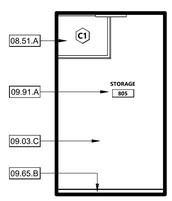

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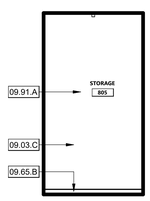

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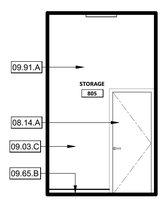

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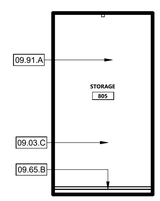
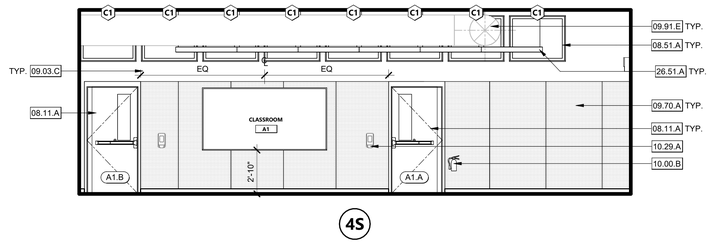


2W

BUILDING 8 - STORAGE - 805 | 1/4" = 1'-0" | 2



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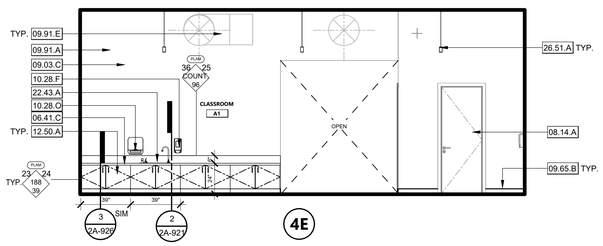

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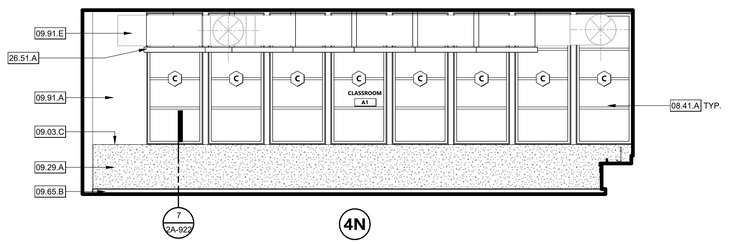

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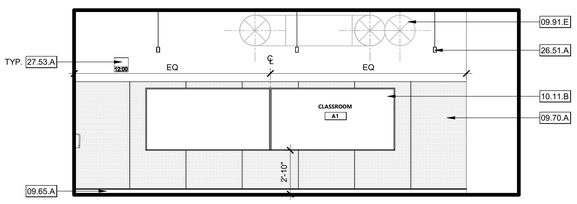
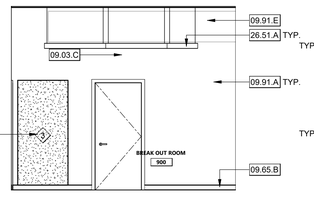


4W

AGES 5-8

BUILDING 9 - CLASSROOM - A1 | 1/4" = 1'-0" | 4



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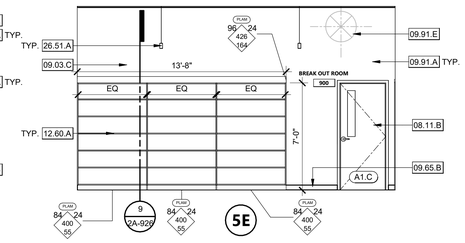

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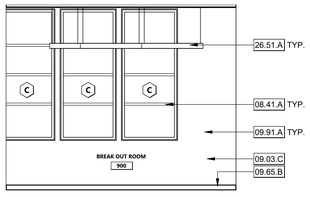

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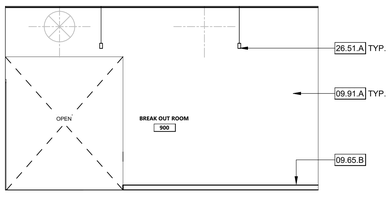


5W

BUILDING 9 - OFFICE - 900 | 1/4" = 1'-0" | 5

AGES 5-8

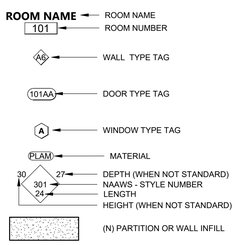
KEYNOTES

06.41.C	PLASTIC LAMINATED COUNTERTOP 6" BACKSPLASH, TYP.
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.11.B	(N) WOOD DOOR AND FRAME, PAINTED
08.14.A	(N) HARDWARE AT (E) DOOR. DOOR AND FRAME TO BE PAINTED. SEE DOOR SCHEDULE.
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.51.A	(N) CLERESTORY WINDOWS
09.03.C	APPLY SKIM COAT TO (E) SURFACES WHERE TACKABLE, CASEWORK, AND OTHER ITEMS ATTACHED TO THE WALLS HAVE BEEN DEMOLISHED TO ENSURE A CLEAN AND SMOOTH SURFACE FOR INTERIOR PAINTING.
09.22.A	(N) PARTITION WALL
09.22.B	(N) INFILL WALL. PATCH BACK AND PAINT TO MATCH ADJACENT SURFACES.
09.22.C	(N) WALL UNDER EXISTING WINDOW SILL
09.29.A	(N) 5/8" GYPSUM BOARD BELOW WINDOW SILL, PAINTED WHERE EXPOSED
09.65.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.65.B	(N) 4" WALL BASE. SEE FINISH SCHEDULE
09.70.A	(N) TACKABLE WALL PANELS
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
09.91.E	(N) PAINT AT EXISTING HVAC HOUSING AND DUCTWORK TO MATCH WALL COLOR, COVER AND PROTECT VENTS DURING PAINTING. SEE FINISH SCHEDULE
10.00.B	(E) FIRE EXTINGUISHER TO BE REMOVED/PROTECTED AND REINSTALLED. SEE INTERIOR ELEVATIONS FOR LOCATION.
10.11.B	(N) WALL MOUNTED WHITEBOARD PER 6/2A-921
10.28.F	(N) WALL MOUNTED HAND SOAP DISPENSER
10.28.N	(N) SURFACE MOUNT SOAP AND HAND SANITIZER DISPENSERS, PER MANUFACTURER'S MOUNTING DETAILS
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER
10.29.A	SAVALGED MOTION-ACTIVATED HAND SANITIZER DISPENSER TO BE MOUNTED AT 40" AFF.
12.50.A	(N) PLASTIC LAMINATED FACED ARCHITECTURAL CABINETS
12.60.A	(N) MID HEIGHT BOOKSHELVES. REFER TO DETAIL SECTION 9/2A-926
22.43.A	(N) ACCESSIBLE SINK. FOR ADULTS & AGES 9-12 REFER TO DETAIL 1/2A-921. FOR AGES 5-8 REFER TO DETAIL 2/2A-921. S.MP.D.
22.43.B	(N) ACC. LAVATORY, PER PLUMBING DRAWINGS
26.00.A	(E) ELECTRICAL PANEL. S.E.D.
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
27.05.A	(N) SURFACE RACEWAY. S.T.D.
27.53.A	(N) CLOCK/SPEAKER PER TECHNOLOGY DRAWINGS

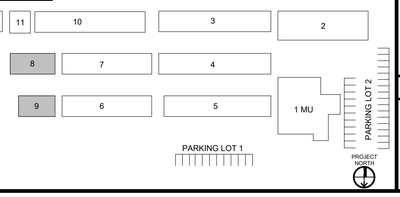
LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET 2A-811.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.
3. LIGHT SWITCHES TO BE MOUNTED AT 45° FROM FF

INTERIOR ELEVATION LEGEND



KEY PLAN



AGENCY APPROVAL DSA#

196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

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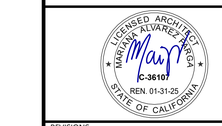

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
BLDG 8 & 9 - INTERIOR ELEVATIONS

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.
2A-604

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

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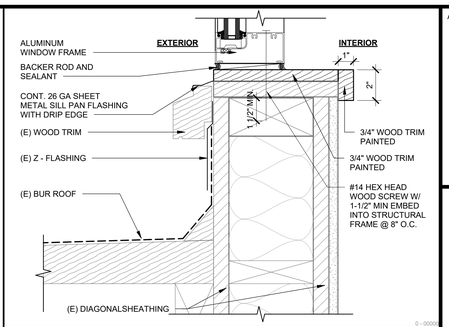
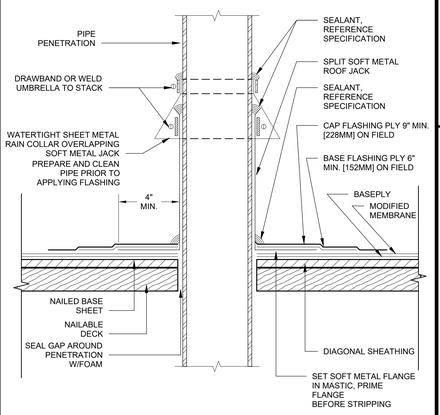


CLERESTORY @ ROOF | 3" = 1'-0" | **1**

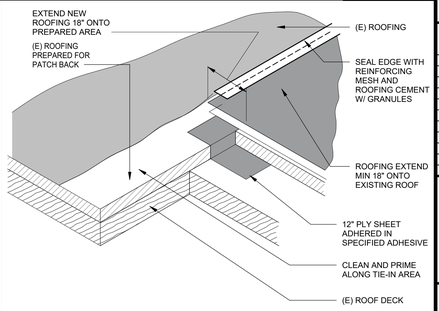


NOTE:

REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD

SEE MECH. DWGS (1/2MP-602)

ROOF PENETRATION | N.T.S. | **3**



TIE IN / PATCH BACK | NTS | **4**

AGENCY APPROVAL DSA# 01-121440

196

911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
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KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARIANA ALVAREZ ARTEGA
C-36107
REN. 01-31-25
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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SHEET TITLE

EXTERIOR DETAILS

INC.2

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

2A-701

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

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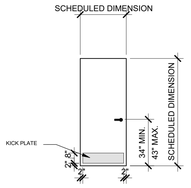
DOOR SCHEDULE - INC. 02

MARK	ROOM	FIRE RATING	SIZE			DOOR			FRAME			DETAILS			PANIC HARDWARE	HARDWARE GROUP	COMMENTS
			WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL			
Building 3																	
301	GIRLS	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	03	LOUVERS
302	JANITOR	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	05	LOUVERS
303	HEATER	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) HM	PW	7/2A-821	10/2A-821	2/2A-821	-	06	LOUVERS
304	BOYS	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	03	LOUVERS
306	UTILITY ROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	05	
C08	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
C09	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
C10	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
C11	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
Building 4																	
401	GIRLS	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	03	LOUVERS
402	JANITOR	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	05	LOUVERS
403	HEATER	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) HM	PW	7/2A-821	10/2A-821	2/2A-821	-	06	LOUVERS
404	BOYS	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	04	LOUVERS
408	CUST.	NR	3'-4"	7'-0"	1 3/4"	C	FRP	PW	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	05	
B6	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
B7	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
B8	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
B9	CLASSROOM	NR	3'-6"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
Building 6																	
A2	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
A3	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
A4	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
A5	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
Building 8																	
801	GIRLS	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	04	LOUVERS
802	JANITOR	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	05	LOUVERS
803	HEATER	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) HM	PW	7/2A-821	10/2A-821	2/2A-821	-	06	LOUVERS
804	BOYS	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	04	LOUVERS
807	TOILET	NR	3'-0"	7'-0"	1 3/4"	A	WD	P	A	WD	PW	8/2A-821	8/2A-821	2/2A-821		08	
B1.A	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	P.H.	02	
B1.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	P.H.	02	
Building 9																	
902	RR	NR	3'-0"	7'-0"	1 3/4"	A	WD	PW	(E) A	(E) WD	PW	1/2A-821	1/2A-821	2/2A-821		07	KICK PLATE
A1.A	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	P.H.	02	
A1.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	P.H.	02	
A1.C	BREAK OUT ROOM	NR	3'-0"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	02	
Building 10																	
C3	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	FRP	PW	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
C4	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	FRP	PW	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
C5	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	FRP	PW	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
C6	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	FRP	PW	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
C-6A	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	FRP	PW	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
Building 11																	
C2	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	FRP	PW	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	
Building 12																	
C1	CLASSROOM	NR	3'-6"	7'-0"	1 3/4"	C	FRP	P	(E) A	(E) WD	PW	4/2A-821	5/2A-821	2/2A-821	-	01	

DOOR SCHEDULE - EXISTING RECEIVING MODIFICATIONS

MARK	ROOM	FIRE RATING	SIZE			DOOR			PANIC HARDWARE	NEW HARDWARE GROUP	COMMENTS
			WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	NEW FINISH			
Building 3											
306.A	NON COMPLIANT ADULT UNISEX RR	NR	2'-8"	7'-0"	1 3/4"	(E) D	(E) WD	PW	-	07	KICK PLATE
Building 4											
405	CUST.	NR	2'-10"	7'-0"	1 3/8"	(E) D	(E) WD	PW		07	KICK PLATE
406A	STORAGE	NR	3'-0"	6'-11"	1 3/8"	(E) D	(E) WD	PW		07	KICK PLATE
406B	STORAGE	NR	3'-0"	6'-11"	1 3/8"	(E) D	(E) WD	PW		07	KICK PLATE
407A	STORAGE	NR	3'-0"	6'-11"	1 3/8"	(E) D	(E) WD	PW		07	KICK PLATE
407B	STORAGE	NR	3'-0"	6'-11"	1 3/8"	(E) D	(E) WD	PW		07	KICK PLATE
Building 8											
805	STORAGE	NR	2'-6"	6'-8"	1 3/8"	(E) D	(E) WD	PW		07	KICK PLATE
Building 9											
901	STORAGE	NR	2'-8"	7'-0"	1 3/8"	(E) E	(E) WD	PW		07	KICK PLATE

DOOR TYPE 'A'



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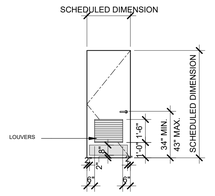

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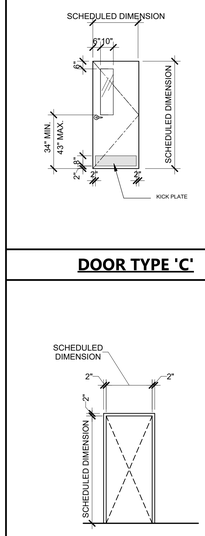
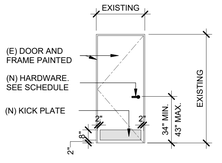
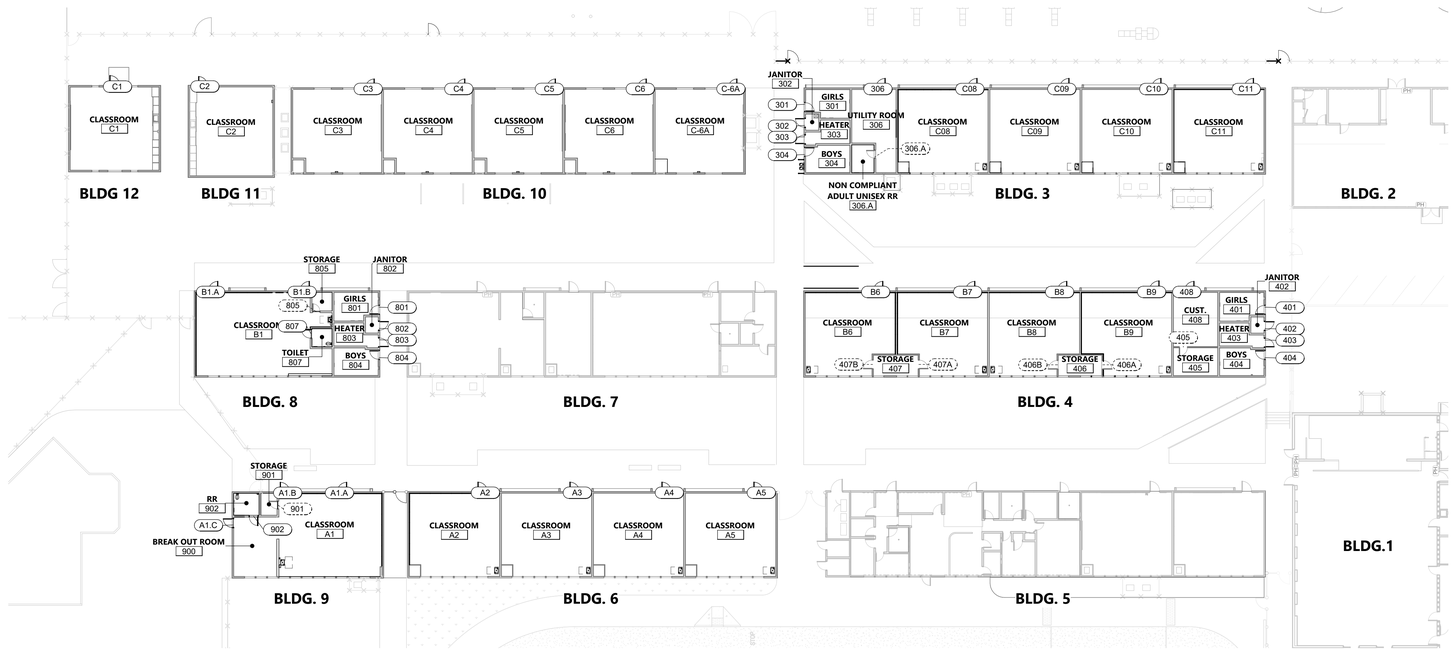


DOOR TYPE '(E) D'



DOOR FRAME 'A'



FLOOR PLAN - DOOR SCHEDULE

3/64" = 1'-0" | 1

LEGEND - DOOR NOTES

1. DOORS SHALL BE 1-3/4" THICK UNLESS NOTED OTHERWISE.
2. THE SYMBOL (P) FOLLOWING THE 'DOOR TYPE' DESIGNATION IN THE DOOR SCHEDULE INDICATES PAIR OF DOORS. BOTH LEAVES ARE THE SAME SIZE, UNLESS NOTED OTHERWISE.
3. SEE REMARKS SECTION OF DOOR SCHEDULE FOR GLASS TYPES.
4. ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING, BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
   a. EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
   b. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FINISH FLOOR.
   c. DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
   d. ALL ROOMS SERVING AN OCCUPANCY LOAD OF 50 OR GREATER AND DOORS LOCATED ON THE DISCHARGE OF EXIT CORRIDORS ARE REQUIRED TO BE PROVIDED WITH PANIC HARDWARE (CBC 1008.1.10).
   e. ALL FIRE DOOR LABELS SHALL COMPLY WITH CBC 716.2.9.
5. FIRE ASSEMBLIES REQUIRED TO HAVE A ONE-HOUR FIRE-PROTECTION RATING SHALL BE EITHER AUTOMATIC OR SELF-CLOSING FIRE ASSEMBLIES TO BE ACTIVATED BY AN INCREASE IN TEMPERATURE SHALL HAVE HEAT-ACTIVATING DEVICES INSTALLED ON EACH SIDE OF THE WALL AT THE CEILING HEIGHT WHERE THE CEILING IS MORE THAN 3 FEET ABOVE THE TOP OF THE OPENING OR BY A SINGLE FUSSIBLE LINK IN THE OPENING INCORPORATED IN THE CLOSING DEVICE.
6. ALL FIRE-RESISTIVE ASSEMBLIES FOR PROTECTED OPENING SHOULD COMPLY WITH SECTION 716 CBC.
7. SEE SPECIFICATION SECTION 08 71 00 FOR DOOR HARDWARE INDEX AND DOOR HARDWARE SETS.
8. EXTERIOR: FRP DOORS ON EXISTING WOOD FRAMES. NEW DOORS SHALL BE SPECIAL LITE SL-20 SANDSTONE TEXTURE FRP UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS 08 17 43.
9. INTERIOR WOOD DOORS: USE EXISTING WOODEN FRAMES WHERE POSSIBLE, NEW WOOD FRAMES ON NEW DOORS. USE MINIMUM 6" WIDE STILE ON ALL STILE & RAIL TYPE DOORS TO ACCOMMODATE EXIT DEVICES.
10. ALL INTERIOR HOLLOW METAL DOOR AND FRAMES TO HAVE JAMB AND HEAD GASKETING. PEMKO 319 OR EQUAL.
11. ALL INTERIOR STORFRONT FRAMES SHOULD PROVIDE GASKETING FOR THE FRP DOORS PER THE DETAILS.
12. PROVIDE ACCESS CONTROL WIRING AND DOOR SWITCH WIRING PER HARDWARE SCHEDULE.
13. PROVIDE DOOR SWITCH WIRING PER HARDWARE SCHEDULE.
14. SEE SHEETS 1A-252 AND 1A-925 FOR SIGNAGE PLAN AND SIGNAGE DETAILS.
15. INTERIOR SWINGING, MANUALLY OPERATED EGRESS DOORS (OTHER THAN A FIRE DOOR): NOT TO EXCEED 5-POUNDS.
16. SWINGING, SLIDING, OR FOLDING DOORS, AND FIRE-RATED DOORS: NOT TO EXCEED 30 POUNDS TO SET THE DOOR IN MOTION, AND SHALL MOVE TO THE FULL-OPEN POSITION WITH NOT MORE THAN 15 POUNDS OF FORCE.
17. OPERABLE PARTS OF DOOR AND GATE HARWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND. WHERE SLIDING DOORS ARE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE FULLY EXPOSED AND USABLE FROM BOTH SIDES. CBC 11B-404.2.7
18. DOOR AND GATE CLOSERS SHALL BE ADJUSTABLE SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. CVC 11B-404.2.1
19. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT IN THE OPEN POSITION OF 70 DEGREES, THE DOOR AND GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.11B-404.2.8.2
20. ALL HARDWARE SHALL MEET THE REQUIREMENTS 11B-309.4
21. THRESHOLDS SHALL COMPLY WITH 11B-404.2.5.
22. FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALL PER DSA POLICY 99-08

LEGEND - DOOR MATERIALS

DOOR CONSTRUCTION AND MATERIAL:
HM - HOLLOW METAL
AL - ALUMINUM
WD - WOOD
FRP - FIBERGLASS-REINFORCED POLYMER

DOOR FACING AND FINISH:
SP - STEEL, PAINTED
K - KYNAR FINISH ON ALUMINUM
WS - WOOD VENEER, STAINED
PW - PAINT WOOD DOOR

FRAME MATERIAL:
HM - HOLLOW METAL, PAINTED
AL - ALUMINUM
WD - WOOD (EXISTING)

FRAME FINISH:
P - PAINTED STEEL
K - KYNAR FINISH ON ALUMINUM

FRAME TYPES:
A, B

GLASS:
ALL GLASS IS TEMPERED (SG - SAFETY GLAZING)

HARDWARE:
P.H. - PANIC HARDWARE

LEGEND - DOOR GLAZING NOTES

1. ALL GLAZING SHALL BE TEMPERED 1/4" CLEAR GLASS UNLESS DOOR IS FIRE-RATED. THEN SAFETY GLAZING SHALL MEET CURRENT FEDERAL STANDARDS WHERE GLAZING OCCURS IN RATED DOOR ASSEMBLY. (WIRE GLASS IS NOT ACCEPTABLE)
2. RATED GLAZING NOTES:
   A. FIRE-RESISTANCE-RATED GLAZING SHALL BE PERMITTED IN FIRE DOOR AND FIRE WINDOW ASSEMBLIES WHERE TESTED AND INSTALLED IN ACCORDANCE WITH THEIR LISTINGS AND WHERE IN COMPLIANCE WITH THE REQUIREMENTS OF CBC SECTION 716.3.
   B. CBC 716.3 MARKING FIRE-RATED GLAZING ASSEMBLIES: FIRE-RATED ASSEMBLIES SHALL BE MARKED IN ACCORDANCE WITH TABLES 716.3, 716.5, AND 716.6.
   C. CBC 716.3.1 FIRE-RATED GLAZING IDENTIFICATION: FOR FIRE-RATED GLAZING, THE LABEL SHALL BEAR THE IDENTIFICATION REQUIRED IN TABLES 716.3 AND 716.5. "D" INDICATES THAT THE GLAZING IS PERMITTED TO BE USED IN FIRE DOOR ASSEMBLIES AND THAT THE GLAZING MEETS THE FIRE PROTECTION REQUIREMENTS OF NFPA 252. "H" SHALL INDICATE THAT THE GLAZING MEETS THE HOSE STREAM REQUIREMENTS OF NFPA 252. "T" SHALL INDICATE THAT THE GLAZING MEETS THE TEMPERATURE REQUIREMENTS OF SECTION 716.5.5.1. THE PLACEHOLDER "XXX" REPRESENTS THE FIRE-RATING PERIOD IN MINUTES.
   D. CBC 716.3.2 FIRE-PROTECTION-RATED GLAZING IDENTIFICATION: FOR FIRE-PROTECTION-RATED GLAZING, THE LABEL SHALL BEAR THE FOLLOWING IDENTIFICATION REQUIRED IN TABLES 7 J 6.3 AND 716.6: "OH-XXX". "OB" INDICATES THAT THE GLAZING MEETS BOTH THE FIRE PROTECTION AND THE HOSE-STREAM REQUIREMENTS OF NFPA 257 OR UL 9 AND IS PERMITTED RO BE USED IN FIRE WINDOW OPENINGS. THE PLACEHOLDER "XXX" REPRESENTS THE FIRE-RATING PERIOD IN MINUTES.
   E. FIRE BARRIER: 3/4 HOUR GLAZING, MAX SIZE TESTED, MARKED D-H
   F. NFPA 257 OR CL 9 MEETS FIRE WINDOW ASSEMBLY CRITERIA INCLUDING THE HOSE STREAM TEST
   G. NFPA 252 OR UL 10B I OR UL 10C D = MEETS FIRE DOOR ASSEMBLY CRITERIA. H = MEETS FIRE DOOR ASSEMBLY HOSE STREAM TEST
   H. RATED GLAZING SHALL BE FIRELITE NT

ACCESSIBLE DOORS, GATES AND HARDWARE CBC 11B-404

DH1) PROVIDE ACCESSIBLE DOOR OR GATE LEAF WIDTH, MINIMUM 36" WIDE AND CAPABLE OF MAXIMUM 5LB. FORCE OPERATION PER 11B-404.2.9. (NOTE THAT THE MAXIMUM ALLOWED WIDTH FOR A SWINGING EGRESS DOOR OR GATE IS 48" NOMINAL PER CBC 1010.1.1.)

DH2) STOREROOM OR SIMILAR HARDWARE FUNCTION TYPES REQUIRE TWO-HAND OPERATION AND DO NOT COMPLY WITH 11B-404.2.7. (NOTE THAT ACCESSIBLE HARDWARE IS NOT REQUIRED TO MECHANICAL, ELECTRICAL OR SIMILAR ROOMS AS EXCEPTED IN 11B-203.5.)

DH3) PROVIDE CLASSROOM SECURITY HARDWARE. ROOMS WITH FIVE OR MORE OCCUPANTS IN KINDERGARTEN THROUGH TWELFTH-GRADE FACILITIES MUST BE LOCKABLE FROM THE INSIDE PER CBC 1010.1.11.) CLARIFY ON DOOR SCHEDULE WHICH DOORS ARE REQUIRED TO MEET THIS REQUIREMENT.

DH4) PROVIDE HARDWARE WITH 5LB. MAXIMUM UNLATCHING FORCE PER 11B-404.2.7 AND 11B-309.4. THIS REQUIREMENT APPLIES TO ALL DOOR HARDWARE, INCLUDING EXIT DEVICES.

DH5) UNLATCHING OF ANY DOOR SHALL NOT REQUIRE MORE THAN ONE OPERATION. SEE CBC 1010.1.9.5 FOR EXCEPTIONS.

DH6) PROVIDE ACCESSIBLE THRESHOLD OR THRESHOLD CONDITION PER 11B-404.2.5.

DH7) ON THE PUSH-SIDE OF THE DOOR, PROVIDE SMOOTH SURFACE WITHIN 10" OF FINISH FLOOR OR GROUND, FOR FULL WIDTH OF DOOR PER 11B-404.2.10.

DH8) IN-DOOR GLAZING AND VISION LIGHTS SHALL HAVE BOTTOM EDGE MAXIMUM 43" ABOVE THE FINISH FLOOR OR GROUND SURFACE PER 11B-404.2.11

DH9) INDICATE ON PLANS AND/OR SPECIFICATIONS THAT HARDWARE COMPLIES WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
-CROSS BARS FOR EXIT DEVICES SHALL EXTEND ACROSS NOT LESS THAN HALF OF THE DOOR OR GATE WIDTH
-ENDS OF CROSS BARS SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON CLOTHING DURING EGRESS.

AGENCY APPROVAL DSA# 01-121440

196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANO ALVAREZ AREA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

DOOR SCHEDULE

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.

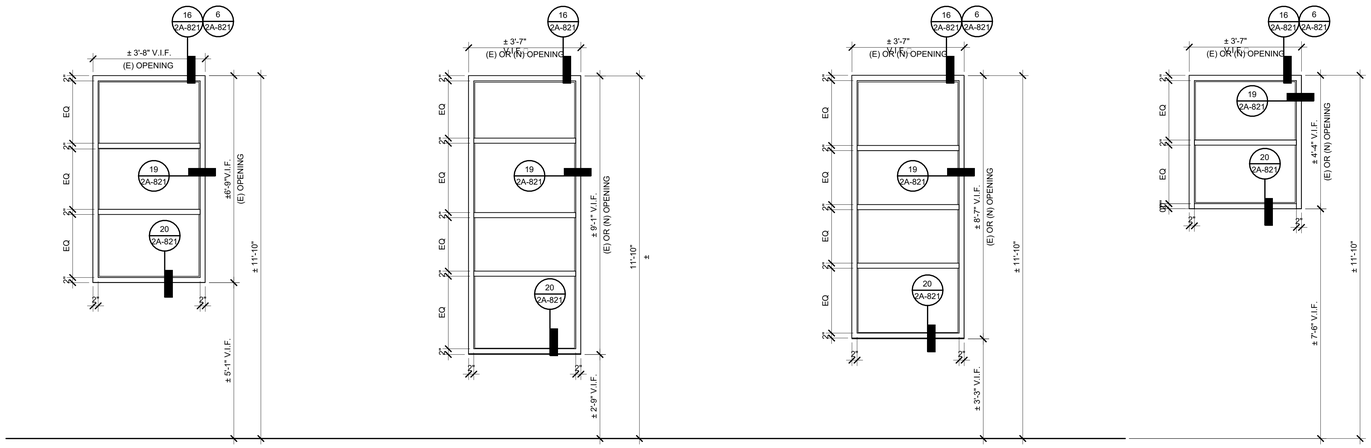
2A-801

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

DATE PLOTTED: 9/27/2024 4:42:37 PM

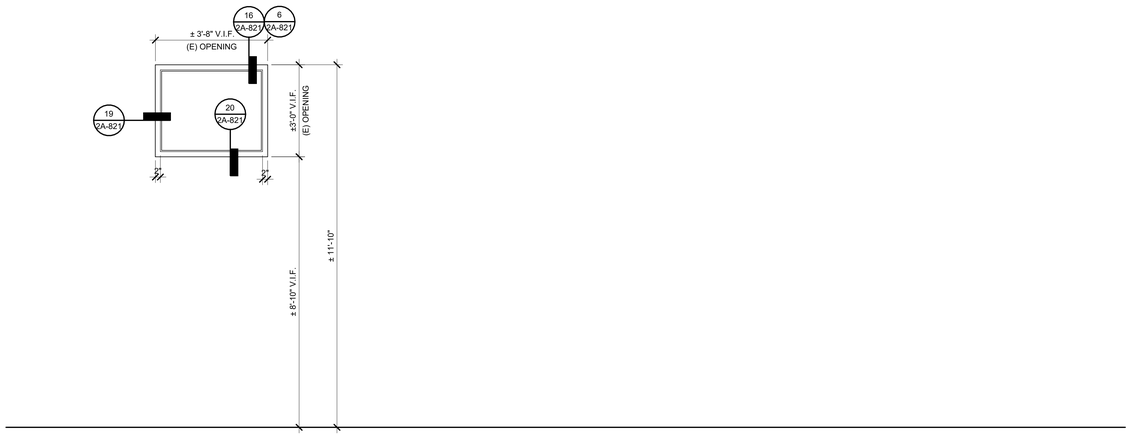


A	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUM
	FRAME FINISH	CLEAR ANODIZED

B	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUM
	FRAME FINISH	CLEAR ANODIZED

C	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUM
	FRAME FINISH	CLEAR ANODIZED

D	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUM
	FRAME FINISH	CLEAR ANODIZED



C1	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUM
	FRAME FINISH	CLEAR ANODIZED

WINDOW LEGEND

WINDOWS GENERAL NOTES

1. EXTERIOR STOREFRONT BASIS OF DESIGN OLD CASTLE FG 3000T FRONT SET - THERMALLY BROKEN.
2. ALL INTERIOR WINDOWS BASIS OF DESIGN OLD CASTLE 3000T FRONT SET - THERMALLY BROKEN.
3. ALL GLASS TO BE TEMPERED PER SPECIFICATIONS.
4. ALL GLASS TO BE INSULATING, PER SPECIFICATIONS.
5. ALL EXISTING WIRE GLASS TO BE REPLACED TO TEMPERED SAFETY GLASS.

AGENCY APPROVAL DSA#

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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ATIUM ENGINEERING
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San Ramon, CA 94582
TEL (913) 961-1658

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582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

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KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARIANA ALVAREZ ARTEGA
C-36107
REN. 01-31-25
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

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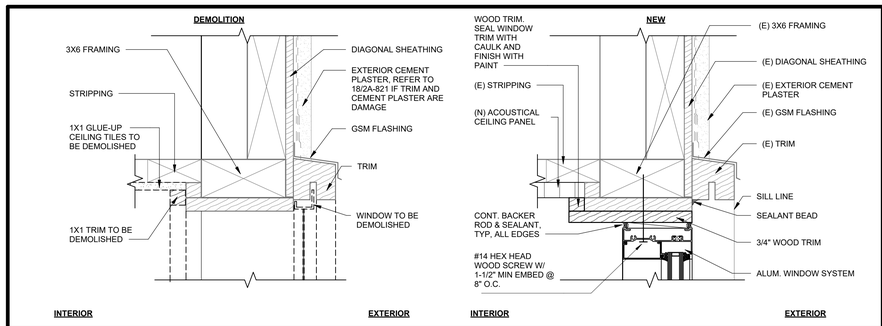
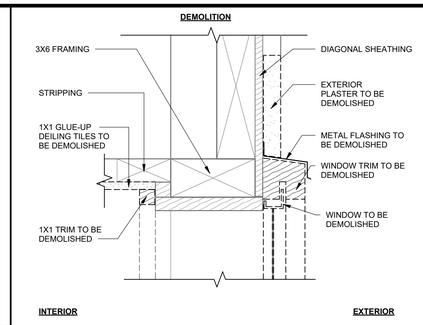
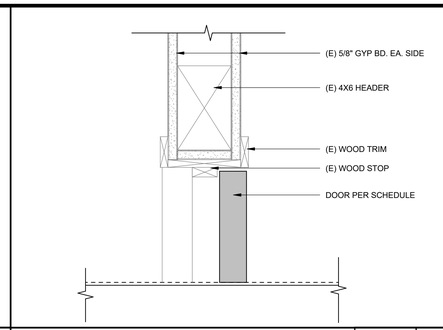


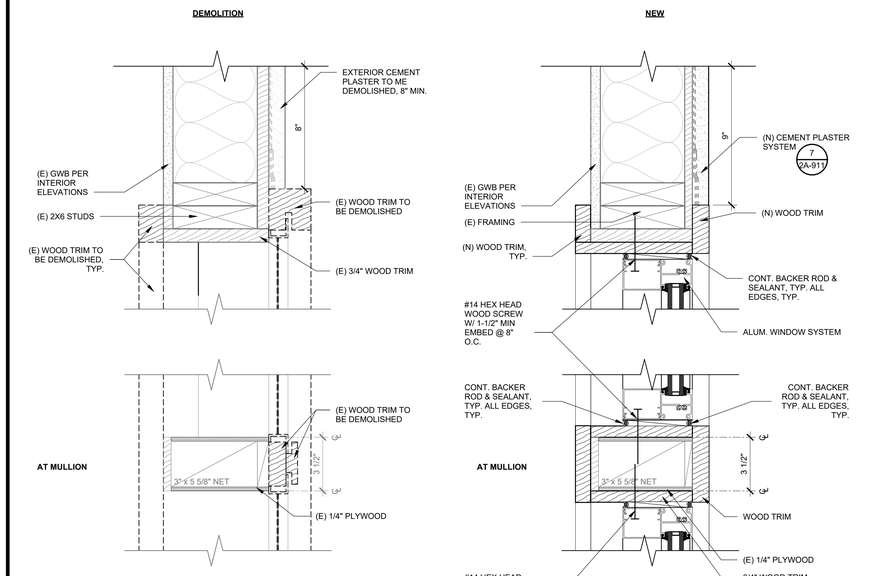
WINDOW HEAD | 3" = 1'-0" | 16



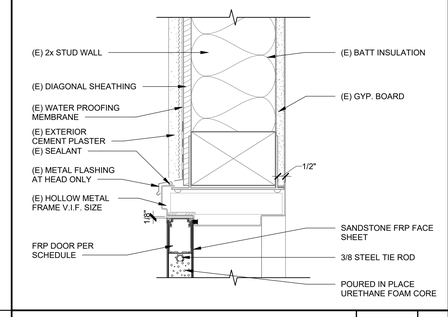
WINDOW HEAD (ALTERNATE) | 3" = 1'-0" | 6



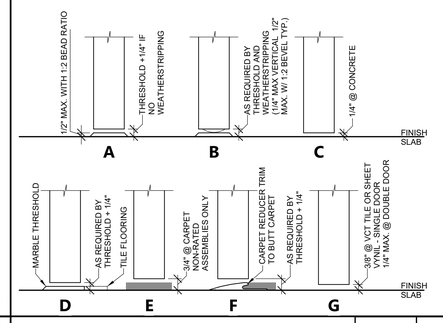
INT. WD DOOR HEAD (JAMB SIM.) | 3" = 1'-0" | 1



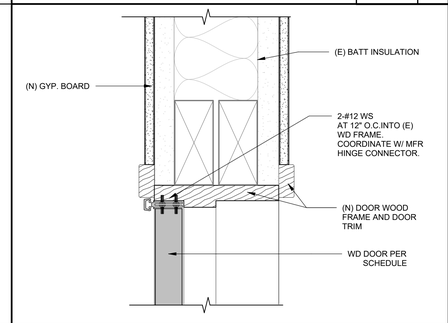
WINDOW JAMB | 3" = 1'-0" | 19



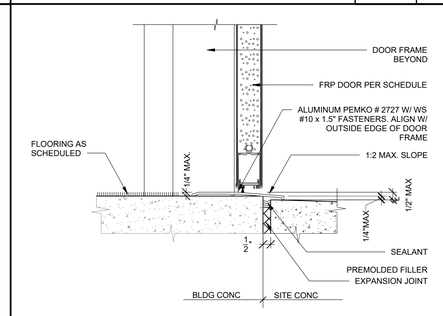
FRP HEAD DETAIL - (E) HM FRAME | 3" = 1'-0" | 7



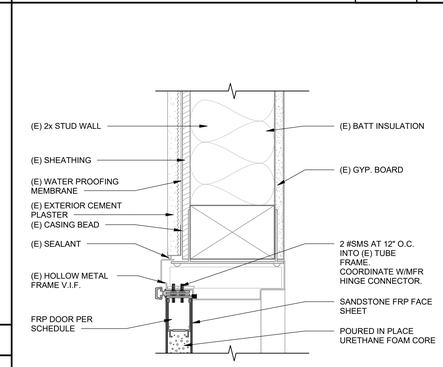
DOOR UNDERCUT CRITERIA | 3" = 1'-0" | 2



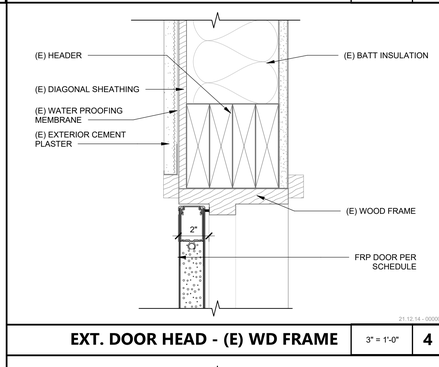
INT. DOOR JAMB/HEAD - (N) WD FRAME | 3" = 1'-0" | 8



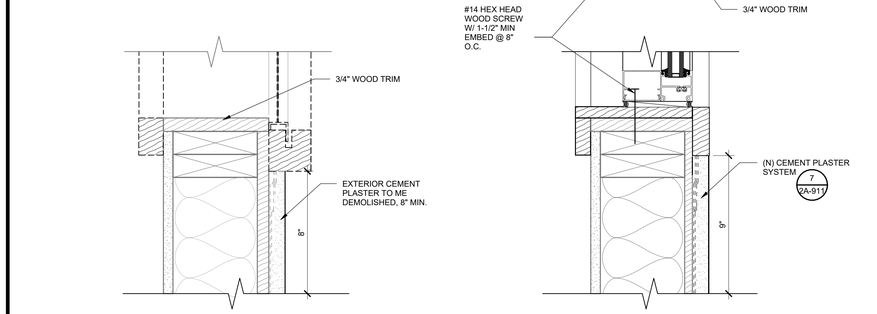
EXTERIOR DOOR THRESHOLD | 3" = 1'-0" | 3



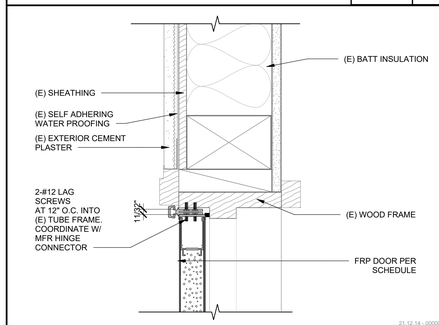
FRP JAMB DETAIL - (E) HM FRAME | 3" = 1'-0" | 10



EXT. DOOR HEAD - (E) WD FRAME | 3" = 1'-0" | 4



WINDOW SILL | 3" = 1'-0" | 20



EXT. DOOR JAMB - (E) WD FRAME | 3" = 1'-0" | 5

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911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARIANA ALVAREZ ARCEGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

DOOR AND WINDOW DETAILS

INC.2

DRAWN BY: DV JOB NUMBER: 23118.01

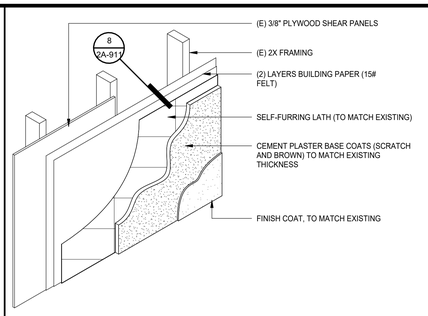
SHEET NO.

2A-821

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:42:44 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



PLASTER DEMOLITION & REPAIR NOTES

1. PLASTER DEMOLITION:
   A. STRAIGHT LINE OR SAW CUTS MUST BE MADE IRREGULAR BY CHIPPING AWAY THE EDGE.
   B. REMOVE ANY LOOSE MATERIAL AND EXPOSE APPROXIMATELY 2 INCHES OF THE EXISTING LATH AT ALL EDGES OF THE REPAIR AREA

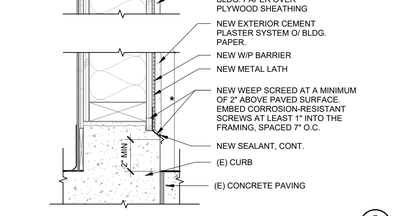
2. INSTALLATION OF THE WATER RESISTIVE BARRIER (BUILDING PAPER)
   A MINIMUM 6" VERTICAL AND 2" HORIZONTAL WEATHERBOARD / SHINGLE LAP IS REQUIRED, LAP TOP AND SIDES UNDER THE EXISTING AND ALLOW THE BOTTOM TO LAP OVER THE EXISTING PAPER.

3. INSTALLATION OF LATH:
   A. CUT LATH TO FIT AND LAP THE EXISTING OVER/ON TOP OF THE NEW LATH.
   B. PROVIDE REINFORCEMENT "BUTTERFLIES" (6" x 12" STRIPS OF METAL LATH) AT CORNERS OF DOOR AND WINDOW OPENINGS, PRIOR TO INSTALLING FIELD LATH

4. INSTALLATION OF PLASTER
   A. INSTALL (3)-COAT SYSTEM AS SPECIFIED TO (E) PLASTER EDGE.

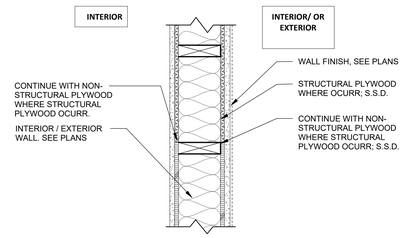
21.12.14 - 00001

EXTERIOR PLASTER ASSEMBLY | 1" = 1'-0" | 7



*SEE EXTERIOR ELEVATIONS FOR EXTENSION OF WALL PATCHING. FOR PLASTER ASSEMBLY SEE: 7 / 2A-911

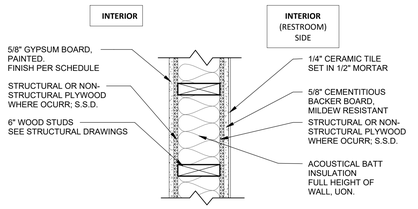
CEMENT PLASTER @ EXTERIOL WALL | 1 1/2" = 1'-0" | 8



INFILL WALL TYPE
FOR BOTTOM OF INFIL WALL S.S.D.

WALL TYPE 2 | 1 1/2" = 1'-0" | 1

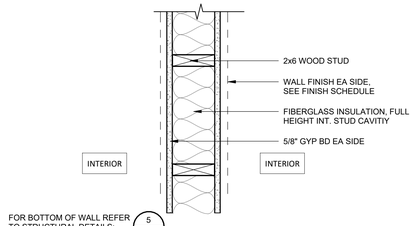
FULL HEIGHT TO STRUCTURE ABOVE. REFER TO STRUCTURAL DETAIL: 5 / 2S-801



FOR BOTTOM OF WALL SEE 10 / 2S-501

WALL TYPE 3 | 1 1/2" = 1'-0" | 2

FULL HEIGHT TO STRUCTURE ABOVE. REFER TO STRUCTURAL DETAIL: 5 / 2S-801



FOR BOTTOM OF WALL REFER TO STRUCTURAL DETAILS: 5 / 2S-801

WALL TYPE 4 | 1 1/2" = 1'-0" | 3

AGENCY APPROVAL DSA# 01-121440

196
911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

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REVISIONS

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SHEET TITLE
WALL TYPES & DETAILS

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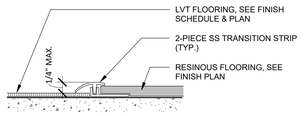


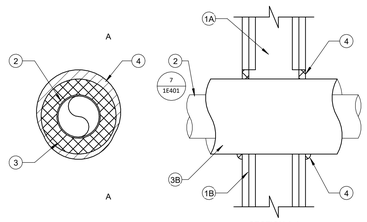
LVT FLOORING - EPOXY

NOTES:
1. INSTALL STRIP WITH FLANGE ON SIDE SHOWN.
2. PROVIDE STRIP AT ALL FLOOR MATERIAL TRANSITIONS.

LVT TO EPOXY FLOORING TRANSITION | 12" = 1'-0" | 16

System No. W-L-5257

F RATING - 1 and 2 Hr (See Item 1)
T RATING - 0 and 1 Hr (See Item 1)
L RATING AT AMBIENT - 4 CFM/Sq Ft (See Item 4)
L RATING AT 400F - Less Than 1 CFM/Sq Ft (See Item 4)

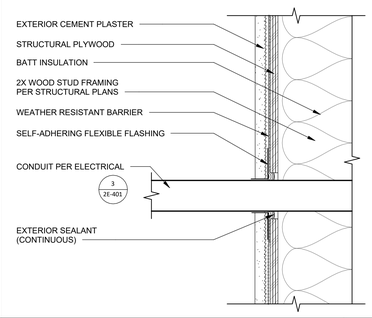


1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide, with square or tapered edges. Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 8 in. (203 mm).
      • The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating of the firestop system is 1 hr for 2 hr fire rated walls and 0 hr for 1 hr fire rated walls.
2. Through Penetrant — One metallic pipe or tube to be installed eccentrically or concentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes and tubes may be used.
   A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tube — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
3. Pipe Covering* — Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (3.5 pcf or 24 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the periphery of the opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm).
   • See Pipe Equipment Covering — Materials— (BRGU) Category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 1/2 in. (13 mm) diam bead of fill material applied at insulated metallic pipe/wall interface on both surfaces of wall. L Ratings apply only when FS-One Sealant is used.
   • HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant, CP 606 Sealant or CP 601S Sealant

*Bearing the UL Classification Mark

21.12.14 - 00000

W-L-5257: PIPE @ WALL ASSEMBLY | 3" = 1'-0" | 18



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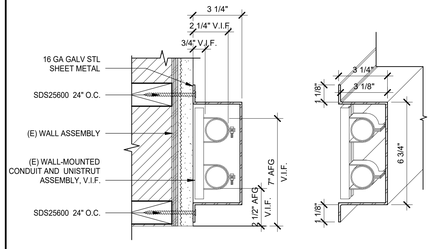
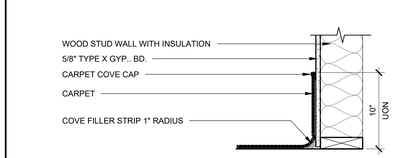
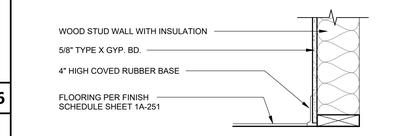
PENETRATION @ EXTERIOR WALL | 3" = 1'-0" | 19



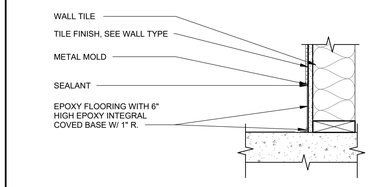
CONDUIT CHASE SECTION DTL | 3" = 1'-0" | 20



CARPET BASE | A



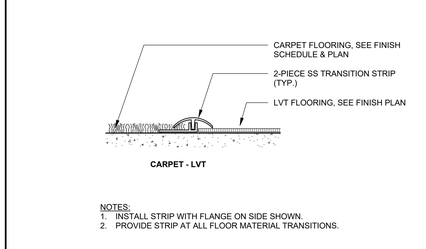
RUBBER BASE | B

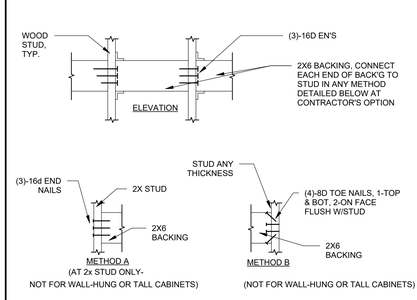


EPOXY COVE BASE @ TOILET ROOMS | C

21.12.14 - 00000

TYP. BACKING/BLOCKING - WOOD STUD | 1" = 1'-0" | 14

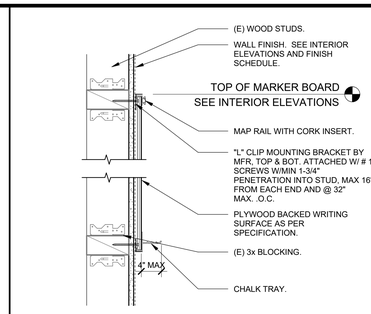




FLOOR BASE | 1 1/2" = 1'-0" | 12

NOTES:
1. INSTALL STRIP WITH FLANGE ON SIDE SHOWN.
2. PROVIDE STRIP AT ALL FLOOR MATERIAL TRANSITIONS.

CARPET TO LVT FLOORING TRANSITION | 12" = 1'-0" | 15



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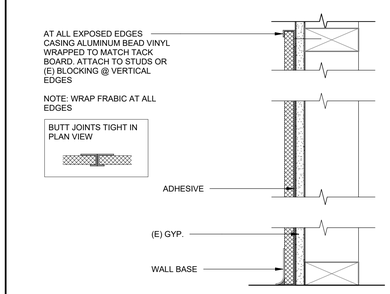
MARKER BOARD ANCHORAGE | 1 1/2" = 1'-0" | 6



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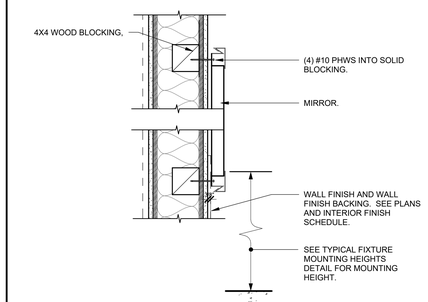
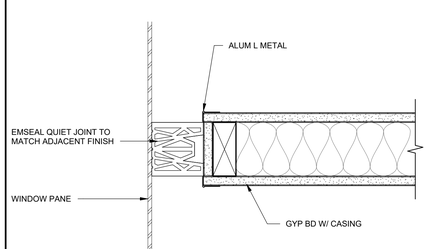
TACKBOARD | N.T.S. | 7

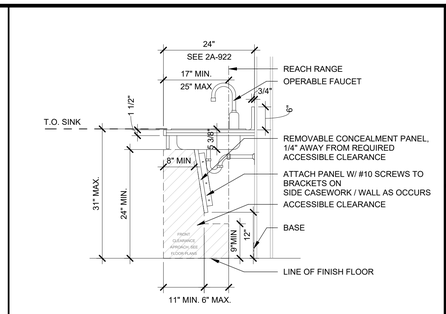


MIRROR MOUNTING | 1 1/2" = 1'-0" | 8

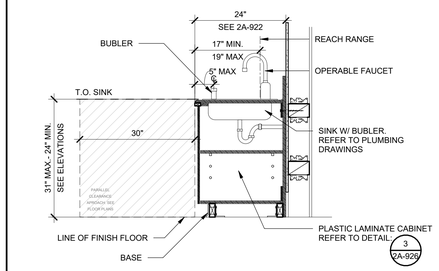


21.12.14 - 00000

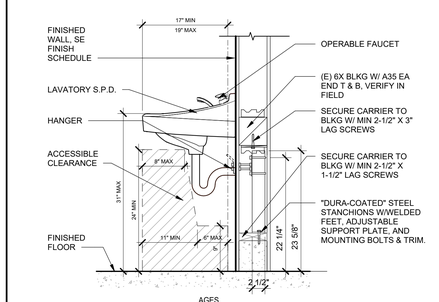
WALL TO (E) WINDOW | 3" = 1'-0" | 10



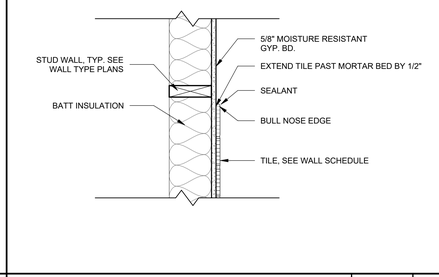
TYP SINK MTG - AGES 9-12 & ADULTS | 3/4" = 1'-0" | 1



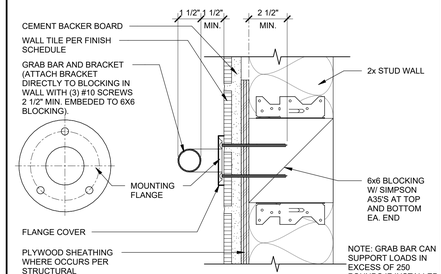
TYP SINK MTG - AGES 5-8 | 3/4" = 1'-0" | 2



LAVATORY MOUNTING | 1" = 1'-0" | 3



TILE TERMINATION | 1 1/2" = 1'-0" | 4



GRAB BAR BLOCKING | 3" = 1'-0" | 5

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911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

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8 Harris Court, Suite A8
Monterey, CA 93940
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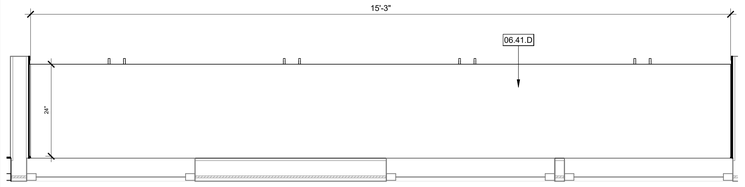
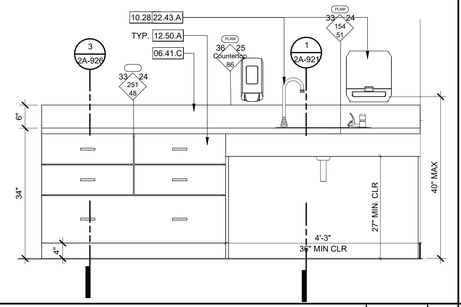
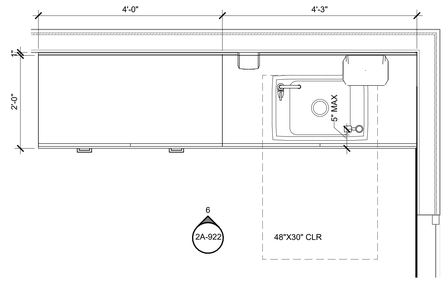


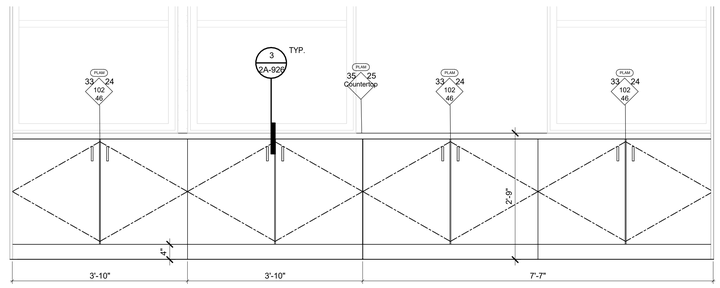
BUILDING 4 - TYPICAL STORAGE CASEWORK ENLARGED PLAN | 3/4" = 1'-0" | 8



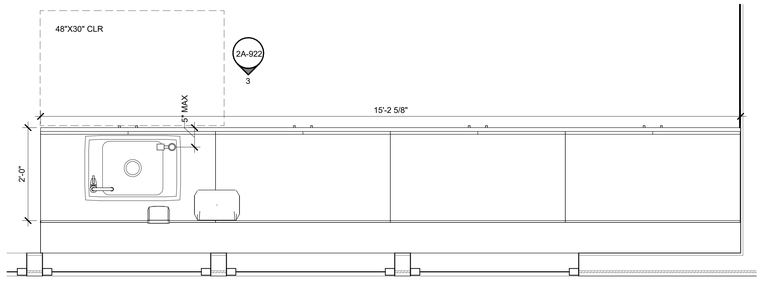
TYPICAL CLASSROOM CASEWORK ELEVATION | 3/4" = 1'-0" | 6



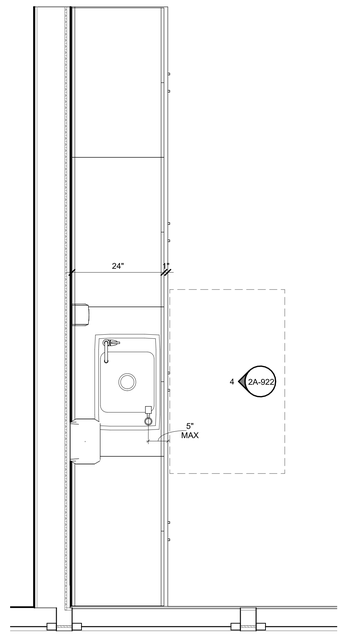
TYPICAL CLASSROOM CASEWORK ENLARGED PLAN | 3/4" = 1'-0" | 1



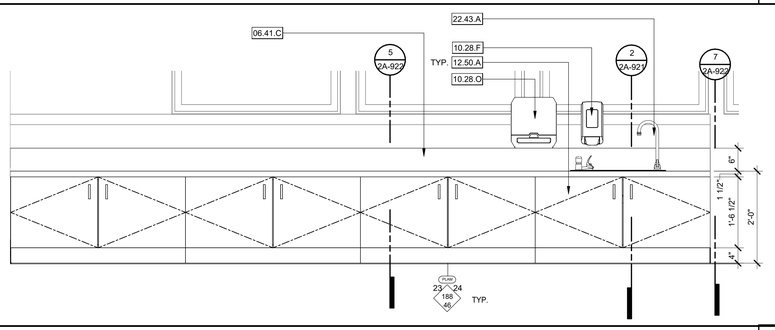
BUILDING 4 - TYPICAL STORAGE CASEWORK ELEVATION | 3/4" = 1'-0" | 9



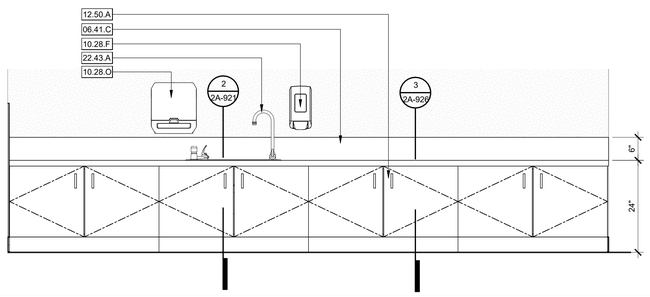
KINDER CLRM CASEWORK ENLARGED PLAN - BLDG 8 | 3/4" = 1'-0" | 2



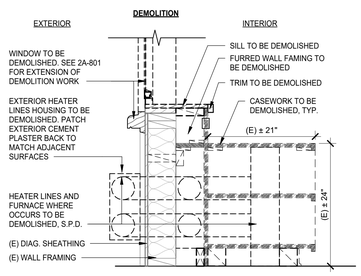
KINDER CLRM CASEWORK ENLARGED PLAN - BLDG 9 | 3/4" = 1'-0" | 10

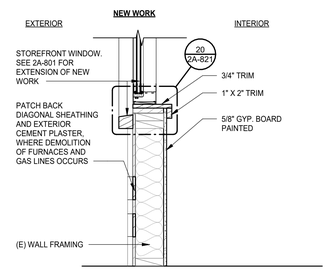


KINDER CLRM CASEWORK ELEVATION - BLDG 8 | 3/4" = 1'-0" | 3

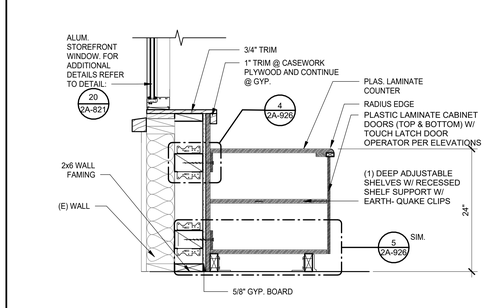


KINDER CLRM CASEWORK ELEVATION - BLDG 9 | 3/4" = 1'-0" | 4





(E) FURRED WALL DEMOLITION & NEW WORK | 1" = 1'-0" | 7



NEW FURRED WALL @ CASEWORK PERIMETER | 1" = 1'-0" | 5

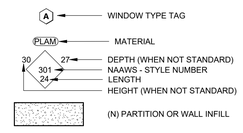
KEYNOTES

06.41.C	PLASTIC LAMINATED COUNTERTOP 6" BACKSPLASH, TYP.
06.41.D	PLASTIC LAMINATED COUNTERTOP
10.28.F	(N) WALL MOUNTED HAND SOAP DISPENSER
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER
12.50.A	(N) PLASTIC LAMINATED FACED ARCHITECTURAL CABINETS
22.43.A	(N) ACCESSIBLE SINK. FOR ADULTS & AGES 9-12 REFER TO DETAIL 1/2A-921. FOR AGES 5-8 REFER TO DETAIL 2/2A-921. S.MP.D.

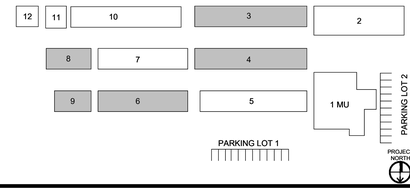
LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET 2A-811.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.
3. LIGHT SWITCHES TO BE MOUNTED AT 45" FROM FF

INTERIOR ELEVATION LEGEND



KEY PLAN



AGENCY APPROVAL DSA#

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARISOL ALVAREZ-VERGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

INTERIOR DETAILS

INC.2

DRAWN BY: Author JOB NUMBER: 23118.01

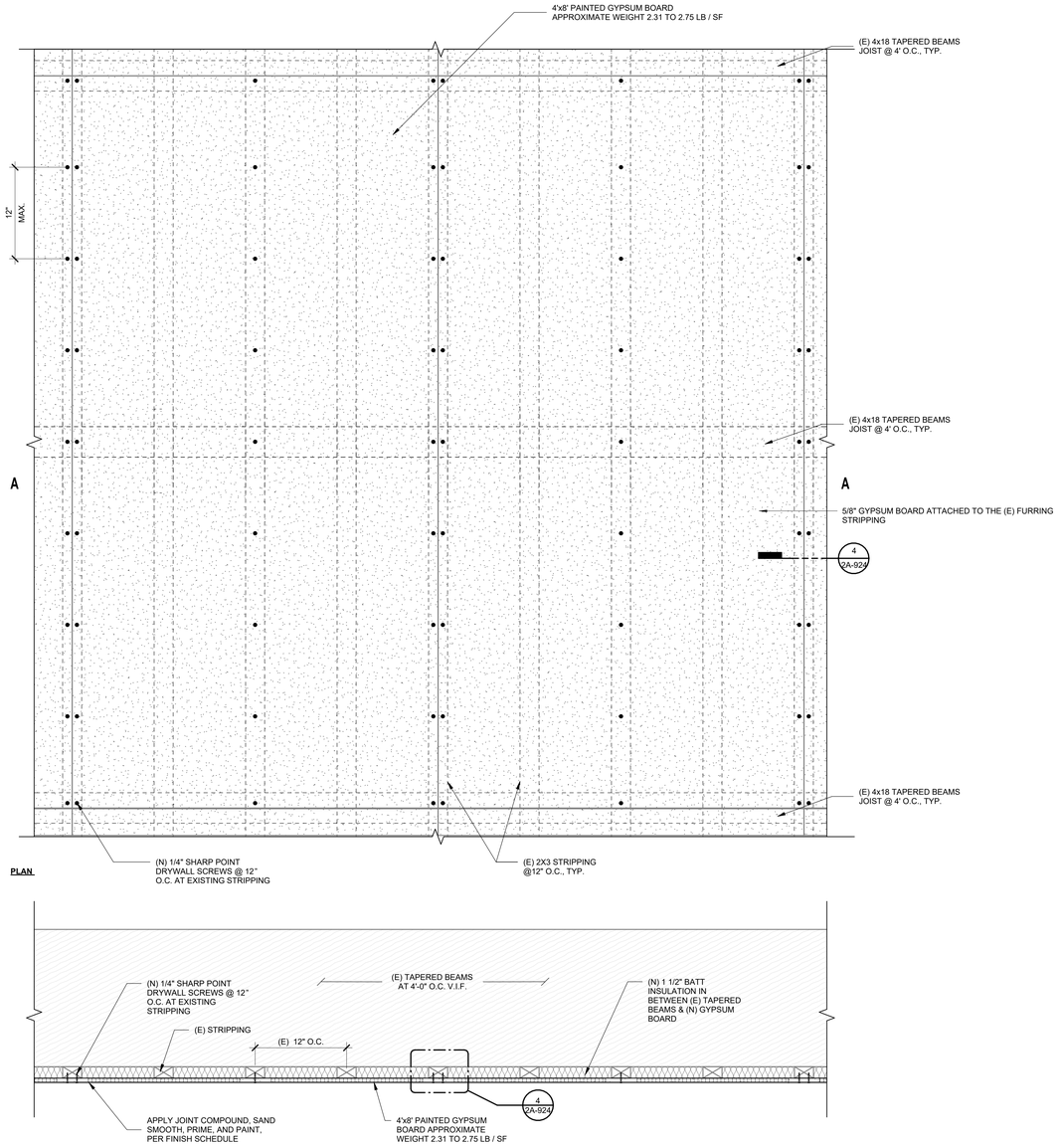
SHEET NO.

2A-922

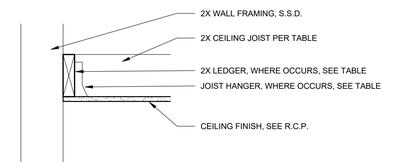
DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:42:53 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



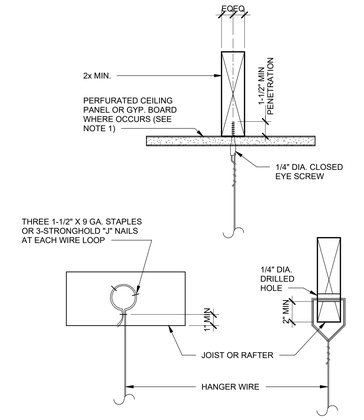
DIRECT ATTACH ACOUSTIC CEILING PANEL TO EXISTING FRAMING | 1 1/2" = 1'-0" | 9



SPAN	HANGER, JOIST SIZE	IF REQUIRED	LEDGER, IF REQUIRED
< 5'-0"	2X4 @ 16" O.C.	LU24	2X4 W/ (2) 16d @ 16" O.C.
5'-1" TO 10'-0"	2X6 @ 16" O.C.	LU26	2X6 W/ (3) 16d @ 16" O.C.
10'-1" TO 15'-0"	2X8 @ 16" O.C.	LU26	2X8 W/ (3) 16d @ 16" O.C.
15'-1" TO 20'-0"	2X12 @ 16" O.C.	LU210	2X12 W/ (4) 16d @ 16" O.C.

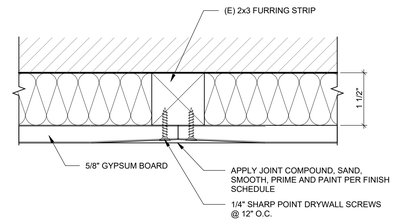
NOTES:
1. WHERE LEDGER S ARE NAILED THROUGH PLYWOOD, USE 20d NAILS INSTEAD OF 16d AS SCHEDULED
2. FOR SPANS LONGER THAN 10'-0", PROVIDE FULL-DEPTH 2X BLOCKING @ MID-SPAN

CEILING FRAME - WOOD (ALT) | 1 1/2" = 1'-0" | 1



NOTE:
1. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

SUSPENDED LIGHTING FIXTURE MOUNT | 3" = 1'-0" | 3



CEILING ATTACHMENT | N.T.S. | 4

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911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
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YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARISSA ALVAREZ-ARCEGA
C-36107
REN. 01-31-25
STATE OF CALIFORNIA

REVISIONS

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611 Pacifica Ave
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DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO.
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DATE: SEPTEMBER 27, 2024

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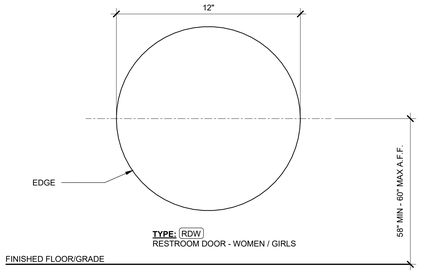
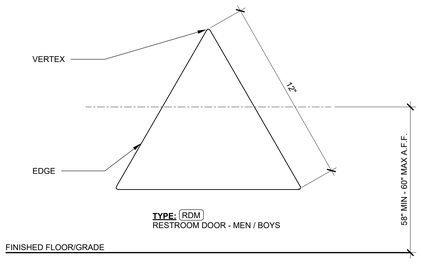
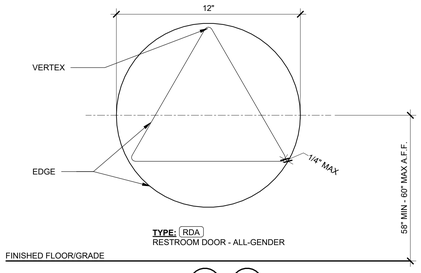
DATE PLOTTED: 9/27/2024 4:42:54 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



TYPE: RDW
RESTROOM DOOR - WOMEN / GIRLS



TYPE: RDM
RESTROOM DOOR - MEN / BOYS



TYPE: RDA
RESTROOM DOOR - ALL-GENDER

NOTE 1: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

NOTE 2: SECOND SURFACE SCREENED COPY ON MATTE CLEAR ACRYLIC

NOTE 3: COLOR TBD. MUST HAVE AT LEAST 70% CONTRAST TO DOOR COLOR

NOTE 4: EDGES SHALL BE EASED OR ROUNDED AT 1/16" MIN OR CHAMFERED AT 1/8" MAX.

NOTE 5: VERTICES ON TRIANGLES SHALL BE RADIUSED BETWEEN 1/8" MIN AND 1/4" MAX.

NOTE 6: CIRCLE & TRIANGLE SYMBOL SHALL BE 1/4" THICK.

NOTE 7: THE INSCRIBED TRIANGLE SHALL BE 1/4" THICK CONTRASTING COLOR ON A 1/4" THICK CIRCLE (1/2" TOTAL THICKNESS) THAT IS IN CONTRAST WITH THE DOOR COLOR (NOTE 3)

21.12.14 - 00000

DOOR SYMBOLS - RESTROOM | 3" = 1'-0" | 18

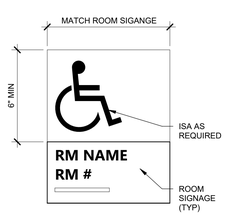
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925)

NOTE 2: FOR ROOM SIGNAGE SEE (2 2A-925) (3 2A-925)

NOTE 3: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

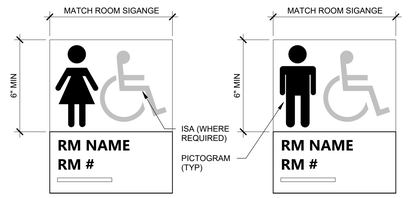
NOTE 4: ISA SHALL BE JUSTIFIED TO ALIGNED WITH ROOM SIGNAGE

NOTE 5: ISA SHALL CONTRAST WITH THE BACKGROUND



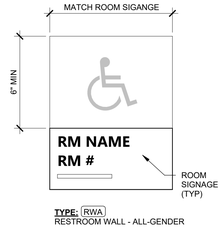
21.12.14 - 00000

SIGNAGE - ROOM - ISA | 3" = 1'-0" | 11



TYPE: RWW RWG
RESTROOM WALL - WOMEN
RESTROOM WALL - GIRLS

TYPE: RWM RWB
RESTROOM WALL - MEN
RESTROOM WALL - BOYS



TYPE: RWA
RESTROOM WALL - ALL-GENDER

NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925)

NOTE 2: FOR ROOM SIGNAGE SEE (2 2A-925) (3 2A-925)

NOTE 3: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

NOTE 4: PICTOGRAMS SHALL BE PER (6 2A-925)

NOTE 5: ISA SYMBOL REQUIRED AT RESTROOMS IN BUILDINGS WHERE NOT ALL RESTROOMS ARE ACCESSIBLE.

21.12.14 - 00000

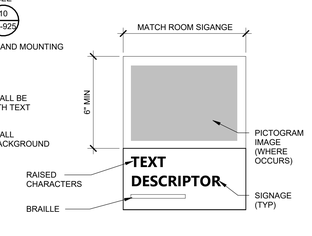
SIGNAGE - RESTROOMS - PICTOGRAMS | 3" = 1'-0" | 13

NOTE 1: FOR SIGNAGE SEE (2 2A-925) (3 2A-925) (10 2A-925)

NOTE 2: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

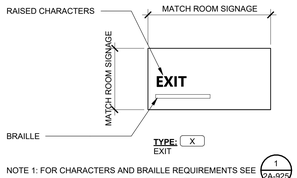
NOTE 3: PICTOGRAM SHALL BE JUSTIFIED TO ALIGN WITH TEXT DESCRIPTOR

NOTE 4: PICTOGRAM SHALL CONTRAST WITH THE BACKGROUND



21.12.14 - 00000

SIGNAGE - PICTOGRAMS | 3" = 1'-0" | 6



TYPE: X
EXIT

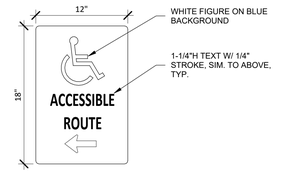
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925)

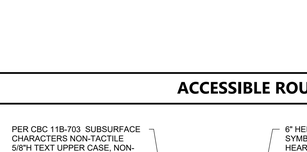
NOTE 2: FOR SIGN DESIGN SEE (2 2A-925) (3 2A-925)

NOTE 3: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

21.12.14 - 00000

SIGNAGE - EXIT | 3" = 1'-0" | 7





TYPE: S-XR
EXIT ROUTE

NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925)

NOTE 2: FOR SIGN DESIGN SEE (2 2A-925) (3 2A-925)

NOTE 3: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

NOTE 4: WHEN PICTOGRAMS ARE USED, SEE (6 2A-925)

NOTE 5: WORDING ON THESE SIGNS IS PER CBC CHAPTER 10

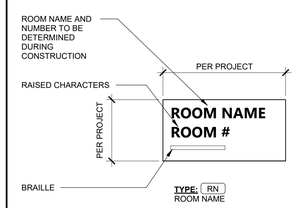
21.12.14 - 00000

SIGNAGE - EXIT ROUTES | 3" = 1'-0" | 10

1. PROVIDE SIGNS WHERE INDICATED ON PLANS.
2. RAISED CHARACTERS SHALL COMPLY WITH SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE.
   DEPTH: RAISED CHARACTERS SHALL BE 1/32INCH MINIMUM ABOVE THEIR BACKGROUND
   CASE: CHARACTERS SHALL BE UPPER CASE
   STYLE: CHARACTERS SHALL BE SANS SERIF
   PROPORTIONS: THE WIDTH OF LETTER "O" SHALL BE 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF LETTER "T"
   HEIGHT: 5/8 INCH MINIMUM AND 2 INCHES MAXIUM
3. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTION 11B-703.3.
   DIMENSIONS: BASE DOT DIAMTER 0.059 INCHES TO 0.063 INCHES
   SPACING IN EACH CELL AT 0.10 INCHES ON CENTER
   SPACING BETWEEN CELLS TO BE 0.30 INCHES
   DOT HEIGHT TO BE BETWEEN 0.025 INCHES TO 0.037 INCHES WITH DOMED TOPS
   POSITION: BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT
4. CHARACTERS AND SYMBOLS SHALL BE LIGHT-ON-DARK OR DARK-ON-LIGHT CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND.
5. FOR ALL SIGNS MOUNTED ON GLAZING COORDINATE OPPOSITE SIDE SIGN IN THE SAME LOCATION. WHERE NO SIGN IS SPECIFIED ON OPPOSITE SIDE, PROVIDE A BLANK SIGN TO MATCH PER (4 2A-925)

21.12.14 - 00000

SIGNAGE - GENERAL NOTES | 12" = 1'-0" | 1



TYPE: RN
ROOM NAME

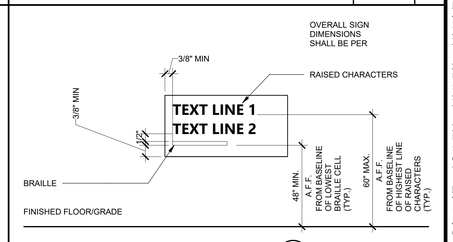
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925) & (3 2A-925)

NOTE 2: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

NOTE 3: FOR ROOM NAMES THAT REQUIRE MULTIPLE LINES OF TEXT, EXPAND THE SIGN VERTICALLY TO ACCOMMODATE THE TEXT

21.12.14 - 00000

SIGNAGE - ROOM IDENTIFICATION | 3" = 1'-0" | 2



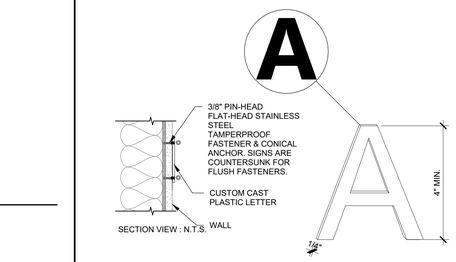
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925)

NOTE 2: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

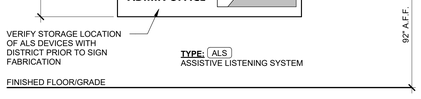
NOTE 3: FOR SIGNS WITH ONLY A SINGLE LINE OF TEXT, IT SHALL BE LOCATED AT "TEXT LINE 2"

21.12.14 - 00000

SIGNAGE - CODE DIMENSIONS | 3" = 1'-0" | 3



CAST PLASTIC LETTERS | 1 1/2" = 1'-0" | 21



TYPE: ALS
ASSISTIVE LISTENING SYSTEM

FINISHED FLOOR/GRADE

21.12.14 - 00000

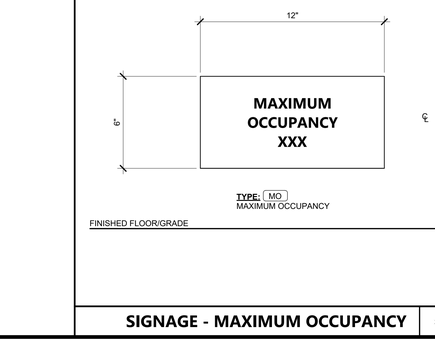
SIGNAGE - ALS | 3" = 1'-0" | 9



NOTE 1:
WHERE NO WALL SPACE IS AVAILABLE ON LATCH SIDE FOR SINGLE DOORS OR THE RIGHT SIDE AT DOUBLE DOORS, SIGNS SHALL BE PLACED ON NEAREST ADJACENT WALL, PREFERABLE LATCH SIDE FOR SINGLE DOORS OR THE RIGHT SIDE AT DOUBLE DOORS

21.12.14 - 00000

SIGNAGE - MOUNTING LOCATIONS | 1/4" = 1'-0" | 4



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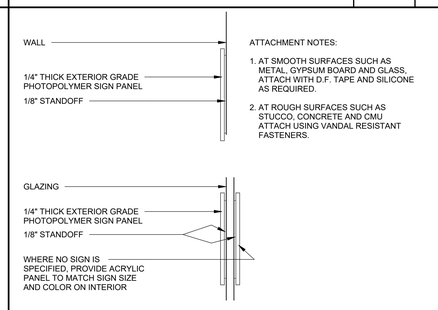
SIGNAGE - MAXIMUM OCCUPANCY | 3" = 1'-0" | 15



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SIGNAGE - MOUNTING | 3" = 1'-0" | 5

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196
911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

LICENSED ARCHITECT MARINA ALVAREZ-ARCA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
SIGNAGE DETAILS

INC.2

DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.
2A-925

DATE: SEPTEMBER 27, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/27/2024 4:42:57 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

DATE PLOTTED: 9/27/2024 4:42:59 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

CASEWORK NOTES

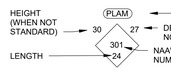
1. SEE INTERIOR ELEVATIONS AND FLOOR PLAN FOR CABINET CONFIGURATIONS AND DIMENSIONS. ONLY THOSE CABINETS CALLED OUT ON INTERIOR ELEVATIONS AND FLOOR PLAN SHALL BE PROVIDED
2. DOOR SWINGS SHALL BE AS SHOWN ON INTERIOR ELEVATIONS, IF NOT ELEVATED, SWINGS SHALL BE AS SHOWN ON DETAIL SHEET ILLUSTRATIONS. SYMBOL 'RS' INDICATES REVERSE SWING.
3. ALL CABINET DIMENSIONS INDICATED ARE NOMINAL OUTSIDE DIMENSIONS, AND SHALL NOT BE EXCEEDED: (EXCEPTION - CABINETS ADJACENT TO WALLS MAY BE INCREASED IN LENGTH TO ELIMINATE THE NEED FOR FILLER STRIPS). A ¼" TOLERANCE IS PERMITTED ON DIMENSIONS OVER 48". FOR 48" AND SMALLER DIMENSIONS, TOLERANCE IS LIMITED TO 10%. HEIGHT DIMENSION OF BASE CABINETS INCLUDES FINISHED TOP.
4. WHERE BACKSPLASH IS INDICATED, IT SHALL BE 4" HIGH @ NON-SINK AREAS & 6" HIGH OR TO UNDERSIDE OF UPPER CABINETS @ WET AREAS(SEE INTERIOR ELEVATIONS), TOP MOUNTED TYPE, HAVING SQUARE TOP WITH SHELF EDGES
5. ALIGN SIDE OF CABINET WITH EDGE OF DOOR FRAME WHERE OCCURS.
6. PAPER AND CHART STORAGE UNITS SHALL BE 27" DEEP UNLESS OTHER WISE NOTED.
7. BACKING NOTES

   A. PROVIDE #10 WOOD SCREWS (FOR WOOD STUDS). SPACE ANCHORS AT 16" O.C. MINIMUM OF ONE SCREW AT EACH TOP AND BOTTOM CORNER OF EACH CABINET UNIT.

   B. STUDS OF WALLS BACKING CABINETS SHALL RUN FROM SLAB TO STRUCTURE ABOVE.

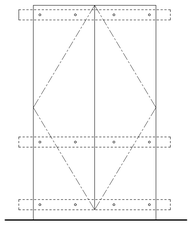
   C. ALL WOOD FRAMING MUST COMPLY WITH LOCAL BUILDING CODES. SEE STRUCTURAL DRAWINGS.

SYMBOLS AND NOTATIONS FOR CABINETS



NAAWS STYLE CATEGORIES:

100 - BASE CABINETS, NO DRAWERS
200 - BASE CABINETS WITH DRAWERS
300 - WALL HUNG CABINETS
400 - TALL STORAGE CABINETS
500 - WARDROBE CABINETS
600 - LIBRARY CABINETS
700 - MOVABLE CABINETS



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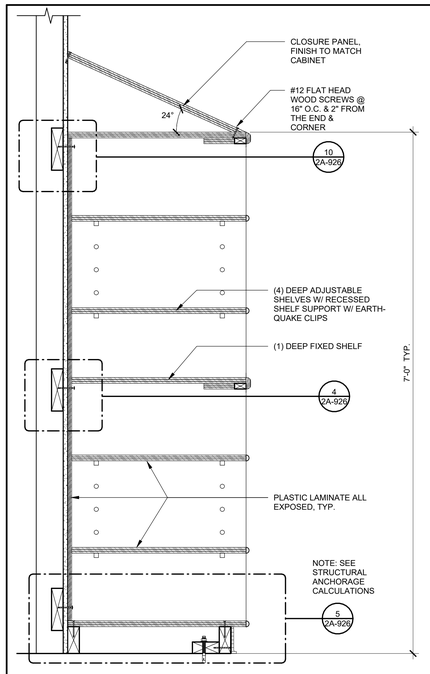
NOTES 1/2" = 1'-0" **2**



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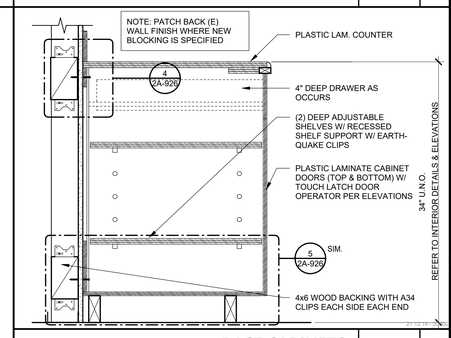
BOOKSHELF 1 1/2" = 1'-0" **9**



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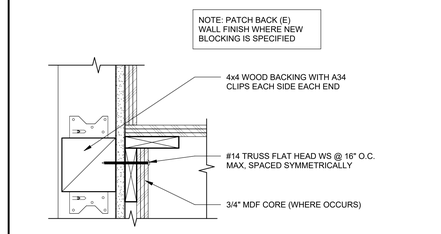
BASE CABINETS 1 1/2" = 1'-0" **3**



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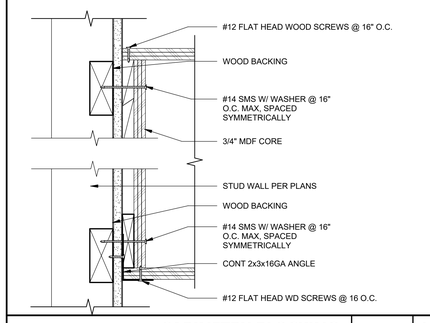
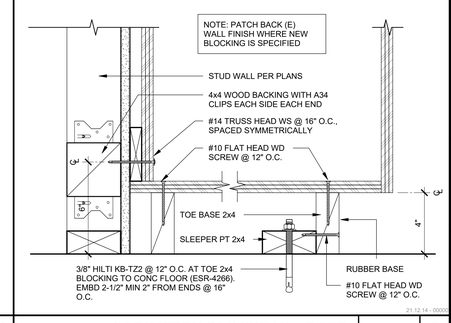
CABINETRY BLOCKING - COUNTER 3" = 1'-0" **4**



CABINETRY BLOCKING 3" = 1'-0" **10**



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CABINETRY BLOCKING - BASE 3" = 1'-0" **5**

AGENCY APPROVAL DSA# 01-121440

196

911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

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BASE Design Inc.
582 Market St. Ste 1402
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DRAWN BY: EW JOB NUMBER: 23118.01

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2A-926

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CONSTRUCTION DOCUMENT

ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
(E)	EXISTING
AB	ANCHOR BOLT
ADDL	ADDITIONAL
AR	ANCHOR ROD
ARCH	ARCHITECT OR ARCHITECTURAL
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CJ	CONTROL/CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR	CLEAR OR CLEARANCE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION(S)
CONT	CONTINUOUS
CTR	CENTER
CTRD	CENTERED
CTRSK	COUNTERSINK
db	DIAMETER OF BOLT OR REBAR
DBL	DOUBLE
DET	DETAIL
DF	DOUGLAS FIR
DIA	DIAMETER
DIM(S)	DIMENSION(S)
DWG(S)	DRAWING(S)
EA	EACH
EF	EACH FACE
EMBED	EMBEDMENT
EN	EDGE NAIL
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FN	FIELD NAILING
FND	FOUNDATION
FS	FAR SIDE
FTG	FOOTING
GA	GAGE, GAUGE
GLB	GLUE-LAMINATED BEAM
GR	GRADE
GYP	GYPSUM
HD	HOLDOWN
HDR	HEADER
HGR	HANGER
HORIZ	HORIZONTAL
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION (TUBE STEEL)
HT	HEIGHT
HVAC	HEATING VENTING AND AIR CONDITIONING
INFO	INFORMATION
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LONG	LONGITUDINAL
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MB	UNFINISHED MACHINE BOLT
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG(S)	OPENING(S)
PAF	POWDER ACTUATED FASTENER
PERP	PERPENDICULAR
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLY	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
REF	REFERENCE
REINF	REINFORCE(D) (ING) OR (MENT)
REQD	REQUIRED
REV	REVISION
SAD	SEE ARCHITECTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SCHED	SCHEDULE(D)
SECT	SECTION
SEOR	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT (FEET)
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT	SHEET
SIM	SIMILAR
SMD	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW(S)
SOG	SLAB ON GRADE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
STAGG'D	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
SYMM	SYMMETRICAL
T&B	TOP AND BOTTOM
THRD'D	THREADED
TJI	TRUS JOIST I-JOIST
TO	TOP OF
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WP	WORK POINT
WT	WEIGHT

I. GENERAL REQUIREMENTS

A. THE STRUCTURAL DRAWINGS AND PROJECT SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE MEANS, METHODS, PROCEDURES AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

B. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL STANDARDS.

C. ALL CONSTRUCTION, TESTING, AND INSPECTIONS SHALL CONFORM TO THE BUILDING CODE REFERENCED UNDER THE HEADING "BASIS OF DESIGN" BELOW.

D. STANDARDS REFERENCED IN THESE DRAWINGS SHALL BE THE LATEST EDITION, UNLESS OTHERWISE NOTED.

E. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: FLOOR FINISHES; DEPRESSIONS IN FLOOR SLABS; OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MEP FEATURES; EXTERIOR PAVING; CURBS; SLOPES; DRAINS; PADS; NON-STRUCTURAL PARTITIONS; EMBEDDED ITEMS; ETC. COORDINATE THESE ITEMS WITH THE STRUCTURAL DRAWINGS.

F. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.

G. OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

H. DO NOT SCALE THE DRAWINGS; USE WRITTEN DIMENSIONS ONLY. WHERE NO DIMENSIONS ARE PROVIDED OR WHERE DIMENSIONS PROVIDED CONFLICT WITH OTHER DRAWINGS, CONSULT THE ARCHITECT AND SEOR BEFORE PROCEEDING WITH THE WORK.

I. WHERE MEMBER LOCATIONS ARE NOT DIMENSIONED, MEMBERS SHALL BE LOCATED ON COLUMN LINES OR EQUALLY SPACED BETWEEN MEMBERS ON COLUMN LINES OR BETWEEN MEMBERS OTHERWISE LOCATED. CENTERLINES OF COLUMNS, WALLS, FRAMING MEMBERS, AND FOUNDATIONS COINCIDE WITH GRIDLINES, UNLESS OTHERWISE NOTED.

J. TYPICAL DETAILS ARE INTENDED TO APPLY TO APPLICABLE SITUATIONS, UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT BE SPECIFICALLY LOCATED.

K. DETAILS SHALL BE APPLIED TO EVERY LIKE CONDITION WHETHER OR NOT THEY ARE REFERENCED IN EVERY INSTANCE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, USE DETAILS SIMILAR TO THOSE PROVIDED.

L. CONTRACTOR SHALL COORDINATE SEWER AND UTILITY LINE LOCATIONS WITH THE FOUNDATION LOCATIONS AND SIZES SHOWN ON THE STRUCTURAL DRAWINGS. ANY INTERFERENCE BETWEEN SEWER/UTILITY LINES AND FOUNDATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND SEOR BEFORE PROCEEDING WITH THE WORK.

M. THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE PLACED.

II. EXISTING CONSTRUCTION

A. WORK SHOWN IS NEW UNLESS OTHERWISE NOTED AS EXISTING, (E).

B. EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM EXISTING CONSTRUCTION DOCUMENTS ENTITLED "ADDITION NO 3 TO MT DIABLO ELEMENTARY SCHOOL" DATED JUNE 5, 1959 AND PREPARED BY ASSOCIATED ARCHITECTS ANDERSON & SIMONDS, CONFER & WILLIS, REYNOLDS & CHAMBERLAIN AND DOCUMENTS ENTITLED "5 MULTI PURPOSE ROOM ADDITIONS MT DIABLO ELEMENTARY SCHOOL" DATED MARCH 22, 1991 AND PREPARED BY JERRY LOVING, ARCHITECT & ASSOCIATES INC. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, REVIEW ALL AVAILABLE EXISTING DRAWINGS AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND SEOR OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.

C. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING. IF EXISTING STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE SEOR SHALL BE NOTIFIED IMMEDIATELY. APPROVAL SHALL BE OBTAINED PRIOR TO REMOVAL OF THE EXISTING MEMBERS.

D. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW INSTALLATION OF THE NEW WORK. THE EXISTING CONSTRUCTION SHALL BE CONNECTED AND/OR EMBEDDED INTO THE NEW CONSTRUCTION AS SHOWN OR SPECIFIED.

E. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE SPECIFIED BY A LICENSED CIVIL OR STRUCTURAL ENGINEERING IN THE STATE OF CALIFORNIA TO BE RETAINED BY THE CONTRACTOR. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

F. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.

G. THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE CAUSED DURING OPERATIONS WITH SIMILAR MATERIALS AND WORKMANSHIP.

H. THE CONTRACTOR SHALL LOCATE EXISTING REINFORCING STEEL WHERE EXISTING CONCRETE IS TO BE CUT, CORED OR SAWN. LOCATION SHALL BE DONE USING A NON-DESTRUCTIVE METHOD. DO NOT DAMAGE EXISTING REINFORCING WITHOUT NOTIFYING THE ARCHITECT AND SEOR.

J. ALL EXISTING CONCRETE SURFACES IN CONTACT WITH NEW CONCRETE SHALL BE INTENTIONALLY ROUGHENED TO ¼" AMPLITUDE WITH EXPOSED AGGREGATE.

III. BASIS OF DESIGN

A. THE STRUCTURAL DESIGN OF THIS PROJECT IS GOVERNED BY THE 2022 CALIFORNIA BUILDING CODE (CBC).

B. RISK CATEGORY = III

D. LIVE LOADS:
1. ROOF = 20 PSF, 300 LBS CONCENTRATED LOAD

E. WIND DESIGN DATA:
1. BASIC WIND SPEED = 100 mph (3 SECOND GUST)
2. EXPOSURE CATEGORY = C
3. INTERNAL PRESSURE COEFFICIENT = +/- 0.18
4. EXTERIOR COMPONENT AND CLADDING DESIGN WIND PRESSURE = 25.52 PSF (WALL ZONE 5), 21.83 PSF (WALL ZONE 4), 66.52 PSF (ROOF ZONE 3), 45.87 PSF (ROOF ZONE 2), 34.77 PSF (ROOF ZONE 1), 19.98 PSF (ROOF ZONE 1).

F. SEISMIC DESIGN DATA:
1. I = 1.25
2. S_{DS} = 1.332
3. S_S : 1.665 S_1 : 0.6, S_{MS} : 1.998
4. SITE CLASS = D (DEFAULT)
5. SEISMIC DESIGN CATEGORY = D

IV. CONCRETE

A. MIXING, BATCHING, TRANSPORTING AND PLACING OF ALL CONCRETE SHALL CONFORM TO ACI 301, SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS.

B. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED.

C. THE SCHEDULE BELOW INDICATES THE MINIMUM CONCRETE DESIGN MIX REQUIREMENTS. SEE SPECIFICATIONS FOR ADDITIONAL CONCRETE PROPERTIES.

TYPE	LOCATION	MINIMUM 28-DAY STRENGTH (PSI)	MAXIMUM WEIGHT (PCF)
A	CONC PAD	3000	150
B	SLAB ON GRADE	3000	150

D. CONCRETE CLEAR COVER OVER MILD REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
2. CONCRETE EXPOSED TO EARTH OR WEATHER:
   a. NO. 5 BARS AND SMALLER = 1-1/2"
   b. NO. 6 BARS AND LARGER = 2"
3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
   a. SLABS, WALLS, JOISTS:
4. NO. 11 BARS AND SMALLER = 3/4"
5. NO. 14 BARS AND LARGER = 1-1/2"
   a. BEAMS, COLUMNS:
6. PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS = 1-1/2"
   a. SHELLS, FOLDED PLATE MEMBERS:
7. NO. 5 BARS AND SMALLER = 1/2"
8. NO. 6 BARS AND LARGER = 3/4"

E. NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28 DAYS.

F. CONSTRUCTION JOINTS
1. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED IN BEAMS, WALLS OR SLABS UNLESS APPROVED BY THE SEOR IN WRITING.
2. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TYPICAL CONSTRUCTION JOINT DETAILS.
3. ALL CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED AND CONSTRUCTED IN ACCORDANCE WITH ARCHITECTURAL FINISHES AND TREATMENTS.
4. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS OR OTHER FOREIGN MATTER PRIOR TO PLACING ADJACENT CONCRETE.

V. REINFORCING STEEL

A. ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 AND ASTM A706 WHERE REQUIRED; ALL BARS TO BE GRADE 60 UNLESS OTHERWISE NOTED.

B. REINFORCING BARS TO BE WELDED SHALL BE ASTM A706.

C. WELDED WIRE REINFORCING SHALL BE ASTM A185.

D. WELDED BAR ANCHORS SHALL BE NELSON D2L DEFORMED BAR ANCHORS PER ICC-ES ESR-5217.

E. DETAIL REINFORCING STEEL BASED ON THE PROJECT REQUIREMENTS, ACI 318, AND ACI 315.

F. TERMINATION OF REINFORCEMENT:
1. TERMINATE ALL BARS IN LAPS, 90 DEGREE BENDS OR WITH DOWELS EPOXIED INTO EXISTING CONCRETE.
2. PROVIDE DOWELS INTO FOOTINGS BELOW AND SLABS ABOVE AT WALLS AND COLUMNS OF SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT.

VI. WOOD

A. ALL WOOD FRAMING SHALL CONFORM TO NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION AND APA PDS, PLYWOOD DESIGN SPECIFICATION.

B. ALL WOOD FRAMING SHALL BE DOUGLAS FIR LARCH, UNLESS OTHERWISE NOTED. GRADE SHALL BE AS FOLLOWS:
1. JOISTS = DF NO.1
2. WALL STUDS = DF NO.1
3. SILL PLATES = PRESSURE TREATED DF NO.1
4. POSTS = DF NO.1
5. BEAMS = DF NO.1
6. BLOCKING AND MISCELLANEOUS = DF NO.2

C. REJECTION OF WOOD MEMBERS: THE PROVISION IN DOC PS 20 (AS REFERENCED BY CBC 2303.1.1) WHICH PERMITS FIVE PERCENT OF THE MATERIAL TO FALL BELOW GRADE SHALL NOT BE CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD-CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIC ALLOWABLE STRESSES AND ACCEPTABLE SAFETY FACTORS. MATERIALS WHICH FALL BELOW GRADE SHALL BE REJECTED FOR LOAD-CARRYING USE. WOOD MEMBERS WHICH ARE REQUIRED TO CARRY DESIGN LOADS AND WHICH THE PROJECT ARCHITECT, SEOR OR INSPECTOR JUDGE TO BE MISGRADED SHALL BE REINSPECTED BY A QUALIFIED LUMBER GRADING INSPECTOR TO VERIFY THE PROPER GRADING OF THE MATERIAL. WOOD MEMBERS WHICH HAVE PERMISSIBLE GRADE CHARACTERISTICS OR DEFECTS IN SUCH COMBINATION AS TO AFFECT THE SERVICEABILITY OF THE MEMBER SHALL BE REJECTED BY THE PROJECT INSPECTOR WITH THE CONCURRENCE OF THE ARCHITECT OR SEOR.

D. ALL LUMBER IN CONTACT WITH CONCRETE OR CONCRETE MASONRY 0'-6" OR LESS ABOVE THE GROUND SHALL BE PRESSURE TREATED.

E. MAXIMUM MOISTURE CONTENT SHALL BE 15% AT TIME OF FRAMING FOR NEW WOOD MEMBERS ADJACENT TO EXISTING WOOD MEMBERS. ALL OTHER MEMBERS SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF FRAMING. REFER TO ARCHITECTURAL DRAWINGS, PROJECT SPECIFICATIONS AND CLADDING MANUFACTURERS' INFORMATION FOR MORE STRINGENT MOISTURE CONTENT REQUIREMENTS.

F. STRUCTURAL SHEATHING SHALL BE AS FOLLOWS (MIN THICKNESS AND MIN APA RATING):
1. ROOF SHEATHING: STRUCT.1 15/32" APA RATED SHEATHING 32/16", EXPOSURE 1, PS1-09, 5 PLY PLYWOOD
2. WALL SHEATHING: STRUCT.1 5/32" APA RATED SHEATHING, EXPOSURE 1, PS1-09, 5 PLY PLYWOOD.

G. UNLESS OTHERWISE NOTED, INSTALL ROOF SHEATHING WITH LONG DIRECTION PERPENDICULAR TO SUPPORTS AND WITH PANELS CONTINUOUS OVER TWO OR MORE SPANS.

H. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE OR EQUAL PRODUCT IF APPROVED BY SEOR. SIMPSON DESIGNATIONS USED IN THESE DRAWINGS. USE MAXIMUM NAIL SIZE LISTED BY MANUFACTURER. FILL ALL HOLES TO ACHIEVE MAXIMUM VALUES AS SPECIFIED BY THE MANUFACTURER.

I. NAILS SHALL BE COMMON WIRE GAGE, UNLESS OTHERWISE NOTED AND CONFORM TO CBC TABLE 2304.10.2.

J. LAG BOLTS AND UNFINISHED MACHINE BOLTS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.

K. ANCHOR RODS SHALL CONFORM TO ASTM F1554 GR 36.

L. FASTENERS INSTALLED IN PRESSURE TREATED OR FIRE RETARDANT TREATED WOOD SHALL BE GALVANIZED.

M. PROVIDE LATERAL SUPPORT FOR BEAMS, JOISTS, AND RAFTERS PER CBC SECTION 2308.4.6.

VII. POST-INSTALLED ANCHORS

A. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS, EPOXY ANCHORS AND REINFORCING STEEL DOWELS, SCREW ANCHORS AND POWDER-ACTUATED FASTENERS. AS DETAILED IN THE DRAWINGS.

B. DO NOT DAMAGE OR CUT EXISTING REINFORCING STEEL WHILE INSTALLING POST-INSTALLED ANCHORS. NOTIFY SEOR IF EXISTING REINFORCING STEEL INTERFERES WITH INSTALLATION OF POST-INSTALLED ANCHORS.

C. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL NOT BE USED AND SHALL BE GROUTED SOLID.

D. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE ICC-ES REPORT AND MANUFACTURER'S RECOMMENDATIONS.

E. PROVIDE SPECIAL INSPECTION FOR THE INSTALLATION OF ALL POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED.

F. FIELD TEST POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED. FIELD TESTING SHALL BE IN COMPLIANCE WITH THE FOLLOWING:
1. 10% OF POST-INSTALLED ANCHORS USED FOR SILL PLATE BOLTING SHALL BE TESTED; 100% OF ALL OTHER POST-INSTALLED ANCHORS USED FOR STRUTURAL APPLICATIONS SHALL BE TESTED.
2. 50% OF POST-INSTALLED ANCHORS USED FOR NON-STRUCTURAL APPLICATIONS SHALL BE TESTED, INCLUDING ONE HALF OF ALL ANCHORS IN EACH GROUP.
   a. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE THAT ARE UNTESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS.
   b. NO TESTING REQUIRED FOR POWDER-ACTUATED FASTENERS USED TO ATTACH TRACKS OF INTERIOR, NON-STRUCTURAL PARTITION WALLS WHERE THERE ARE AT LEAST THREE FASTENERS PER PIECE OF TRACK.
3. NO TESTING REQUIRED OF REINFORCING STEEL DOWELS ACROSS COLD JOINTS IN CONCRETE SLABS ON GRADE.
4. TORQUE TESTING MAY BE USED FOR TORQUE CONTROLLED POST-INSTALLED ANCHORS; TENSION TEST ALL OTHER POST-INSTALLED ANCHORS.
5. TORQUE TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1910A.5.5.2.
6. TENSION TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1910A.5.5.1.
7. ALL FIELD TESTING SHALL BE DONE UNDER THE OBSERVATION OF THE PROJECT INSPECTOR.
8. TESTING SHALL OCCUR AT LEAST 24 HOURS AFTER THE ANCHOR HAS BEEN INSTALLED.

G. EPOXY ANCHORS AND REINFORCING STEEL DOWELS
1. FOR INSTALLATION IN CONCRETE, EPOXY SHALL BE ONE OF THE FOLLOWING:
   a. SET-3G PER ICC-ES ESR-4057 AS MANUFACTURED BY SIMPSON STRONG TIE
   b. HIT-RE V3 PER ICC-ES ESR-3814 AS MANUFACTURED BY HILTI, INC.
   c. HIT-HY 200 V3 PER ICC-ES ESR-4868 AS MANUFACTURED BY HILTI, INC.
2. FOR INSTALLATION IN FULLY-GROUTED MASONRY, EPOXY SHALL BE ONE OF THE FOLLOWING:
   a. SET-XP PER IAPMO ER-265 AS MANUFACTURED BY SIMPSON STRONG TIE.
   b. HY-270 PER ICC-ES ESR-4143 AS MANUFACTURED BY HILTI, INC.
3. EPOXIED ANCHOR RODS SHALL BE CARBON STEEL THREADED RODS PER APPROPRIATE ICC-ES REPORT; EPOXIED REINFORCING STEEL DOWELS SHALL BE ASTM A615 GR 60 UNLESS OTHERWISE NOTED. MINIMUM ANCHOR EMBEDMENT AND TENSION TEST VALUES ARE AS FOLLOWS:

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
REBAR SIZE	EMBED (IN)	TENSION TEST VALUE (LBS)		
		HY-200	HIT-RE 500-V3	SET-XP
#3	3	2900	2750	4353
#4	4	5180	4940	6984
#5	5	8130	7870	9760
#6	6	11120	11120	12830

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
THREADED ROD DIAMETER (IN)	EMBED (IN)	TENSION TEST VALUE (LBS)		
		HY-200	HIT-RE 500 V3	SET-XP
3/8	3	3360	3510	4344
1/2	4	6010	6150	6984
5/8	5	9440	9330	9760
3/4	6	7120	12860	12830

ANCHORS SHALL NOT BE INSTALLED INTO CONCRETE THAT IS LESS THAN 21 DAYS OLD.

H. EXPANSION ANCHORS
1. FOR INSTALLATION IN CONCRETE, EXPANSION ANCHORS SHALL BE ONE OF THE FOLLOWING:
   a. STRONG BOLT 2 PER ICC-ES ESR-3037 AS MANUFACTURED BY SIMPSON STRONG TIE.
   b. KWIK BOLT TZ2 PER ICC-ES ESR-4266 AS MANUFACTURED BY HILTI, INC.
2. USE STAINLESS STEEL AT EXTERIOR, WEATHER-EXPOSED OR DAMP LOCATIONS; CARBON STEEL EXPANSION ANCHORS MAY BE USED AT ALL OTHER LOCATION, UNLESS OTHERWISE NOTED.
3. MINIMUM ANCHOR EMBEDMENT AND TORQUE TEST VALUES ARE AS FOLLOWS:

KWIK BOLT TZ2 IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST VALUES (FT-LBS)	
(IN)		DEPTH (IN)	CARBON STEEL	STAINLESS STEEL
3/8	2 5/16	2 5/8	30	30
1/2	2 3/8	2 5/8	50	40
5/8	4 1/16	4 3/4	40	60
3/4	5 9/16	5 3/4	110	125

STRONG BOLT 2 IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST VALUES (FT-LBS)	
(IN)		DEPTH (IN)	CARBON STEEL	STAINLESS STEEL
3/8	1 7/8	2	30	30
1/2	2 3/4	3	60	65
5/8	5 3/8	5 3/8	90	80
3/4	5 1/4	6	125	150

4. WHERE EXPANSION ANCHORS ARE INSTALLED IN CONTACT WITH WOOD FRAMING, PROVIDE AN OVERSIZE WASHER IN ORDER TO ACHIEVE TORQUE REQUIRED BY ICC-ES REPORT. USE 1/4"x3"x3" WASHER, MINIMUM.
5. CONTRACTOR SHALL PROVIDE ANCHORS WITH SUFFICIENT TOTAL LENGTH FOR THE SPECIFIED EMBEDMENT LENGTH, THICKNESS OF FASTENED PART, WASHER AND NUT.

I. SCREW ANCHORS
1. FOR INSTALLATION IN CONCRETE, SCREW ANCHORS SHALL BE ONE OF THE FOLLOWING:
   a. TITEN HD PER ICC-ES ESR-2713 AS MANUFACTURED BY SIMPSON STRONG TIE.
   b. KWIK HUS-EZ PER ICC-ES ESR-3027 AS MANUFACTURED BY HILTI, INC.
2. MINIMUM ANCHOR EMBEDMENT AND TENSION TEST VALUES ARE AS FOLLOWS:

TITEN HD IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)			
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TENSION TEST
(IN)		DEPTH (IN)	VALUE (LBS)
3/8	2 1/2	3	1200
1/2	3 1/4	3 3/4	2973
5/8	4	4 1/2	3935
3/4	5 1/2	6	5895

KWIK HUS-EZ IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)			
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TENSION TEST
(IN)		DEPTH (IN)	VALUE (LBS)
1/4	2 1/2	2 7/8	1133
3/8	2 1/2	2 3/4	2093
1/2	2 1/4	2 5/8	2547
5/8	3 1/4	3 5/8	3049
3/4	4	4 3/8	4118

J. POWDER-ACTUATED FASTENERS
1. PAF SHALL BE ONE OF THE FOLLOWING:
   a. SIMPSON STRONG TIE POWDER-ACTUATED FASTENERS PER ICC-ES ESR-2138 FOR ANCHORAGE OF METAL TO CONCRETE, MASONRY OR STEEL.
   b. HILTI, INC. X-U PER ICC-ES ESR-2269 FOR ANCHORAGE OF METAL TO CONCRETE, MASONRY OR STEEL
   c. HILTI, INC. X-CP 72 PER ICC-ES ESR-2379 FOR ANCHORAGE OF SILL PLATES TO CONCRETE
   d. DEWALT POWDER-ACTUATED FASTENERS PER ICC-ES ESR-2024 FOR ANCHORAGE OF METAL TO CONCRETE, MASONRY OR STEEL AND ANCHORAGE OF WOOD SILLS TO CONCRETE.
2. PROVIDE 0.08"x1.1"x1.1" SQUARE OR 0.08"x1.425" DIAMETER ROUND WASHER AT EACH PAF.
3. MINIMUM PAF EMBED INTO CONCRETE SHALL BE 1", UNLESS OTHERWISE NOTED.
4. MINIMUM PAF EMBED INTO STEEL SHALL BE PER MANUFACTURER.

IX. SUBMITTALS AND DEFERRED APPROVALS

A. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO SENDING TO THE ARCHITECT AND SEOR. SUBMITTALS WILL ONLY BE REVIEWED IF THEY ARE BASED ON THE LATEST DESIGN, IF THEY ADDRESS ANY COMMENTS FROM PREVIOUS VERSIONS OF THE SUBMITTAL, IF THE WORK IS COORDINATED WITH ALL OTHER TRADES, AND IF THE SUBMITTAL DOES NOT INCLUDE SUBSTITUTION REQUESTS. SUBMITTALS NOT MEETING THESE REQUIREMENTS WILL BE RETURNED TO THE CONTRACTOR WITHOUT COMMENT.

B. THE SEOR'S REVIEW OF EACH SUBMITTAL SHALL BE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT.

C. NO WORK SHALL PROCEED PRIOR TO THE SEOR'S AND ARCHITECT'S APPROVAL OF THE SUBMITTAL.

D. THE FOLLOWING ITEMS REQUIRE A SUBMITTAL FOR STRUCTURAL REVIEW. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
1. REINFORCING STEEL SHOP DRAWINGS
2. CONCRETE MIX DESIGNS

X. TESTING AND INSPECTION

A. SPECIAL INSPECTIONS SHALL BE PERFORMED BY A SPECIAL INSPECTOR PER CBC SECTIONS 1704A AND 1705A. THE SPECIAL INSPECTOR SHALL BE RETAINED BY THE OWNER AND NOT BY THE CONTRACTOR.

B. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN SEISMIC FORCE RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY PER CBC SECTION 1704A.4 TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK FOR THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.
4. IDENTIFICATION AND QUALIFICATION OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

C. SEE PROJECT DSA 103 FORM FOR THE WORK REQUIRES STRUCTURAL TESTS AND SPECIAL INSPECTIONS. FOR SPECIFIC REQUIREMENTS OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS, SEE THE SPECIFICATIONS AND GENERAL NOTES.

AGENCY APPROVAL DSA# 01-121440

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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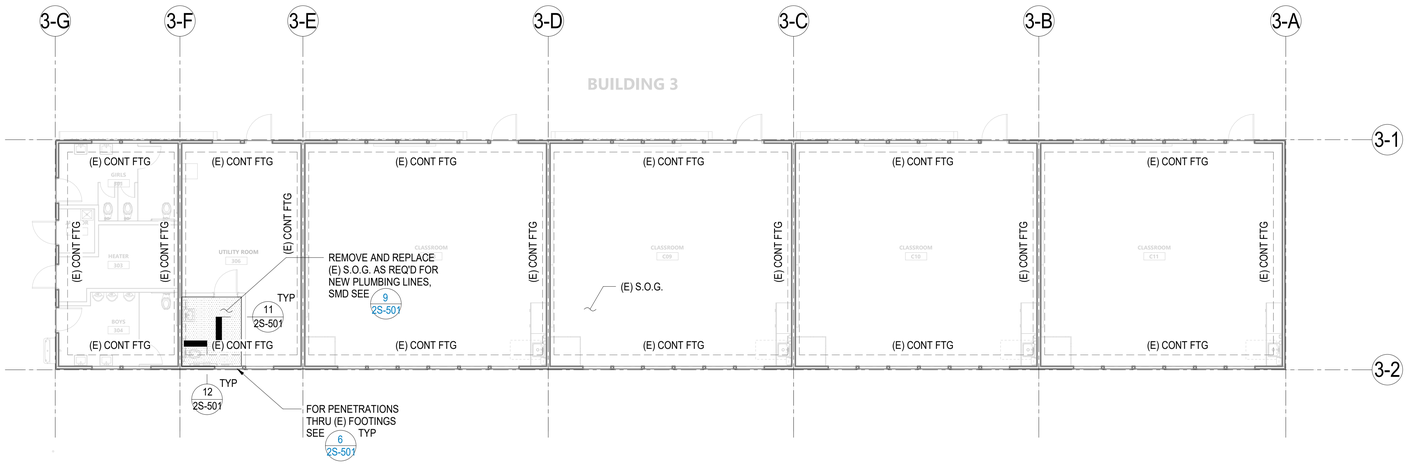

1 FOUNDATION PLAN BUILDING 3

1/8" = 1'-0"

SHEET NOTES:

1. SEE GENERAL NOTES ON SHEET 2S-100.
2. SEE TYPICAL CONCRETE DETAILS ON SHEETS 2S-501.
3. REMOVE & REPLACE (E) S.O.G. AS REQUIRED, SEE SHEET 2S-501, COORDINATE WITH ARCH AND M/E/P DWGS.
4. SEE TYPICAL FRAMING DETAILS ON SHEETS 2S-800 AND 2S-801.
5. COORDINATE LOCATION OF MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SMD FOR ANCHORAGE REQUIREMENTS.

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SAN JOSE, CA 95126
TEL (408) 715-4470

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582 MARKET ST. STE. 1402
SAN FRANCISCO, CA 94104
Office:(415) 466-2997
www.BASEdesigninc.com

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — GÖNHAN AKALIN — NO. 8594 — STRUCTURAL — STATE OF CALIFORNIA

REVISIONS

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
BUILDING 3 FOUNDATION PLAN

INC.2

DRAWN BY: SN JOB NUMBER: 23118.01

SHEET NO.
2S-201

DATE: AUGUST 28, 2024

CONSTRUCTION DOCUMENTS

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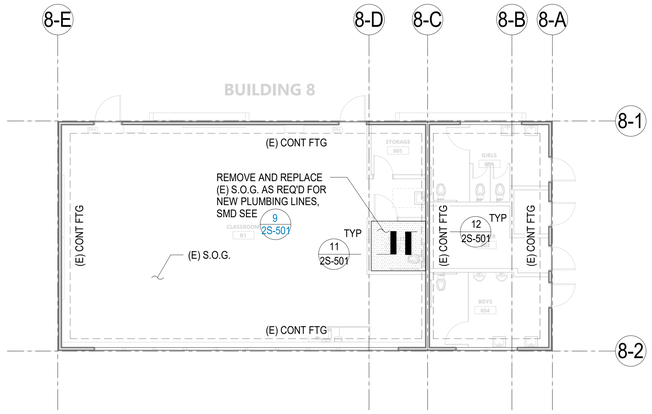
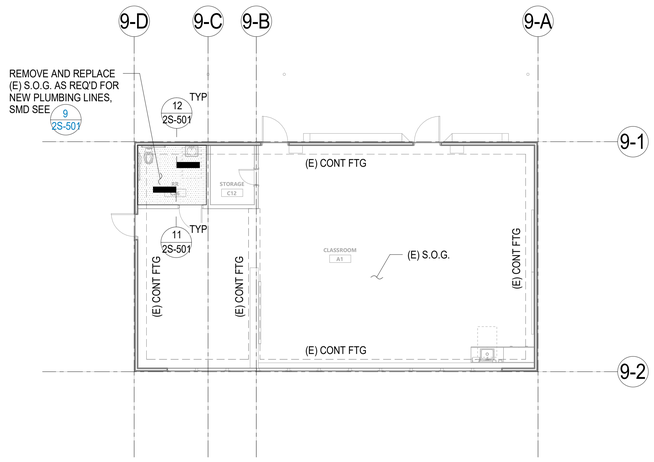


1 FOUNDATION PLAN BUILDING 8

1/8" = 1'-0"



2 FOUNDATION PLAN BUILDING 9

1/8" = 1'-0"

SHEET NOTES:
1. SEE GENERAL NOTES ON SHEET 2S-100.
2. SEE TYPICAL CONCRETE DETAILS ON SHEETS 2S-501.
3. REMOVE & REPLACE (E) S.O.G. AS REQUIRED, SEE SHEET 2S-501, COORDINATE WITH ARCH AND M/E/P DWGS.
4. SEE TYPICAL FRAMING DETAILS ON SHEETS 2S-800 AND 2S-801.
5. COORDINATE LOCATION OF MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SMD FOR ANCHORAGE REQUIREMENTS.

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SAN JOSE, CA 95126
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582 MARKET ST. STE. 1402
SAN FRANCISCO, CA 94104
Office:(415) 466-2997
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CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
JONHAN AKALANAN
NO. 8594
STRUCTURAL
STATE OF CALIFORNIA

REVISIONS

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PROJECT OWNER & TITLE
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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
BUILDING 8 & 9 - FOUNDATION PLANS

INC.2

DRAWN BY: SN JOB NUMBER: 23118.01

SHEET NO.
2S-202

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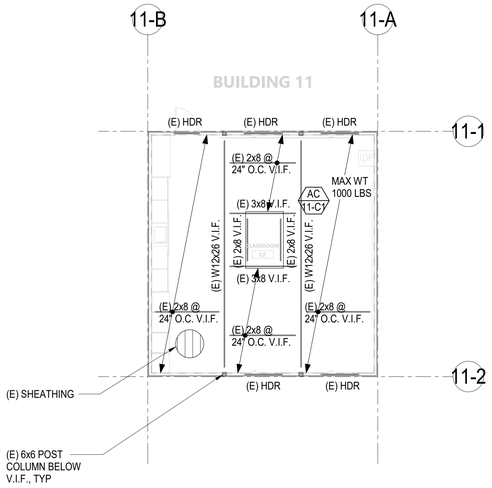
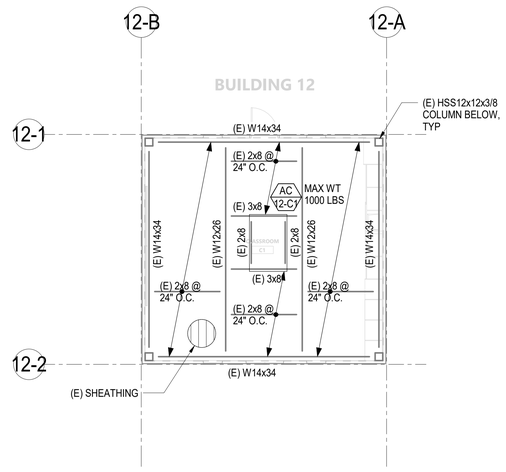


1 ROOF FRAMING PLAN BUILDING 11

1/8" = 1'-0"



2 ROOF FRAMING PLAN BUILDING 12

1/8" = 1'-0"

SHEET NOTES:

1. SEE GENERAL NOTES ON SHEET 2S-100.
2. SEE TYPICAL CONCRETE DETAILS ON SHEETS 2S-501.
3. REMOVE & REPLACE (E) S.O.G. AS REQUIRED, SEE SHEET 2S-501, COORDINATE WITH ARCH AND M/E/P DWGS.
4. SEE TYPICAL FRAMING DETAILS ON SHEETS 2S-800 AND 2S-801. (2S-800)
5. COORDINATE LOCATION OF MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SMD FOR ANCHORAGE REQUIREMENTS.

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
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582 MARKET ST. STE. 1402
SAN FRANCISCO, CA 94104
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CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

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KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
GONHAN AKALANY
NO. 8594
STRUCTURAL
STATE OF CALIFORNIA

REVISIONS

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
BUILDINGS 11 & 12 ROOF FRAMING PLANS

INC.2

DRAWN BY: SN JOB NUMBER: 23118.01

SHEET NO.
2S-203

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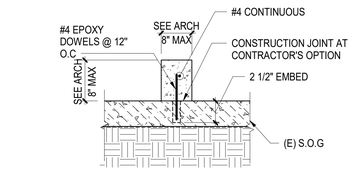
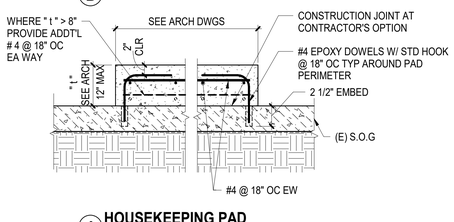


B CURB AT SLAB-ON-GRADE



A HOUSEKEEPING PAD

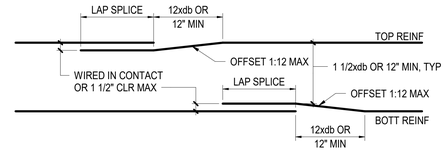
CONCRETE STRENGTH		3000 PSI			
REINFORCING CONFIGURATION		CASE 1		CASE 2	
BAR LOCATION / BAR SIZE		TOP	OTHER	TOP	OTHER
"CLASS A LAP SPLICE AND STRAIGHT DEVELOPMENT LENGTH, Ld (INCHES)"	#3	22	17	32	25
	#4	29	22	43	33
	#5	36	28	54	41
	#6	43	33	64	50
	#7	63	48	94	72
	#8	72	55	107	82
CLASS B LAP SPLICE (INCHES)	#3	28	22	42	32
	#4	37	29	56	43
	#5	47	36	70	54
	#6	56	43	84	64
	#7	81	63	122	94
	#8	93	72	139	107

NOTES:
1. VALUES IN THE TABLE ARE FOR NON-EPOXY COATED GRADE 60 REINFORCING STEEL AND NORMAL WEIGHT CONCRETE.
2. CASES 1 AND 2 ARE DEPENDENT ON THE TYPE OF CONCRETE ELEMENT, CONCRETE COVER AND CENTER-TO-CENTER SPACING OD REINFORCING BARS. THEY ARE DEFINED AS:
   CASE 1:
   BEAM AND COLUMNS:
   - CONCRETE COVER >= db
   - CENTER-TO-CENTER SPACING >= 2x db, AND
   - STIRRUPS OR TIES PROVIDED THROUGHTOUT ld

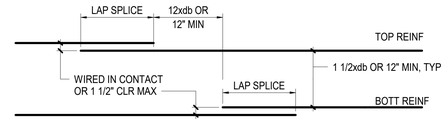
   OTHER ELEMENTS:
   - CONCRETE COVER >= db AND
   - CENTER-TO-CENTER SPACING >= 3x db

   CASE 2:
   BEAM AND COLUMNS:
   - CONCRETE COVER < db
   - CENTER-TO-CENTER SPACING < 2x db

   OTHER ELEMENTS:
   - CONCRETE COVER < db AND
   - CENTER-TO-CENTER SPACING < 2x db
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW. OTHER BAR INCLUDE ALL VERTICAL REINFORCING, ALL HORIZONTAL WALL REINFORCING AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF FRESH CONCRETE BELOW BAR.
4. PROVIDE CLASS B LAP SPLICES, U.O.N.
5. FOR LIGHTWEIGHT CONCRETE, MULTIPLY THE VALUES IN THIS TABLE BY 1.3.
6. WHERE ld IS NOT OBTAINABLE DUE TO SPACE RETRICTIONS, PROVIDE A STANDARD HOOK PER DETAIL 2/-
7. FOR EPOXY-COATED BARS, MULTIPLY THE VALUE IN THIS TABLE BY 1.5.
8. SPLICES OF HORIZONTAL REINFORCING BARS IN WALLS AND SLABS SHALL BE STAGGERED. SPLICES OF HORIZONTAL REINFORCING BARS IN WALLS AND SLABS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION; SPLICES SHALL BE OFFSET BY THE MAXIMUM OF 12 INCHES AND 12 BAR DIAMETERS.



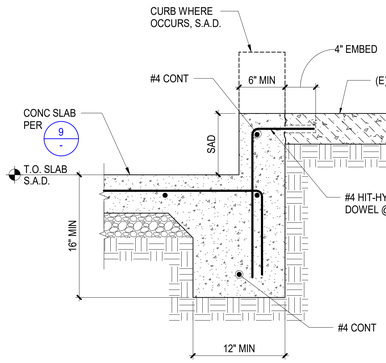
a BEAM SPLICE DETAIL



b STRAGGERED WALL OR SLAB SPLICE DETAIL

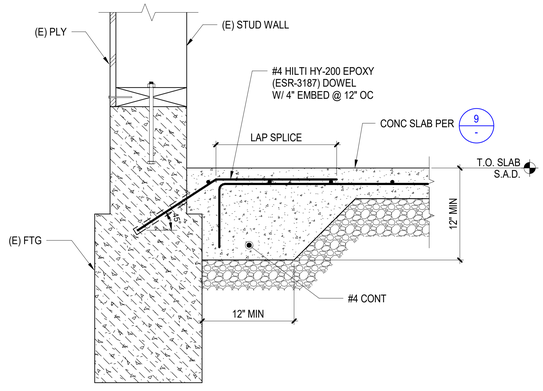
10 CURBS AND HOUSEKEEPING PADS AT (E) S.O.G

NTS



11 DEPRESSED SLAB DETAIL

1 1/2" = 1'-0"

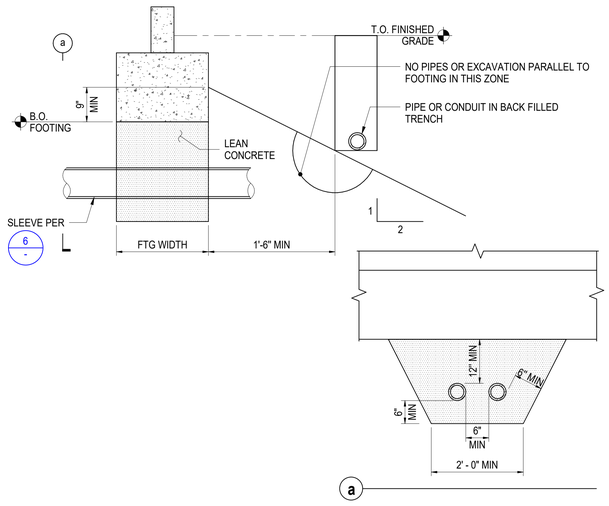


12 SECTION AT EXISTING FOOTING

1 1/2" = 1'-0"

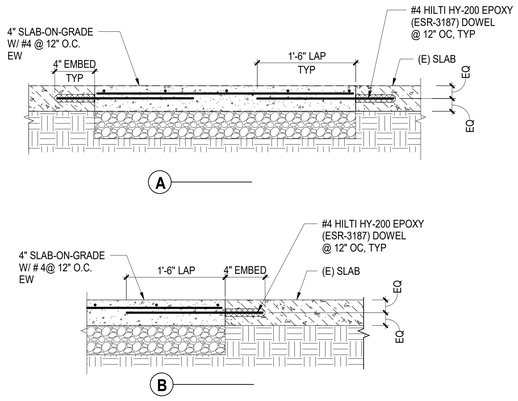
7 LAP SPLICE + STRAIGHT BAR DEVELOPMENT LENGTHS

NTS



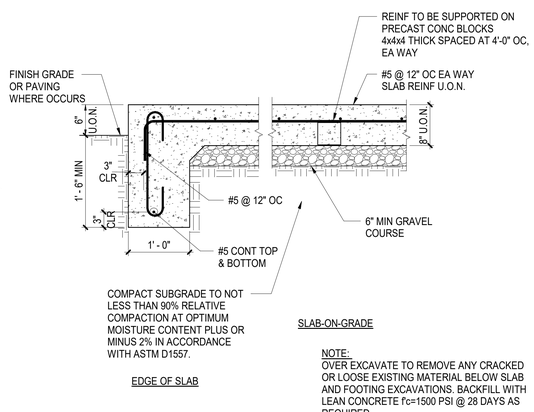
8 TYPICAL EXCAVATION PARALLEL TO FTG

NTS



9 SLAB-ON-GRADE AT (E) SLAB

NTS

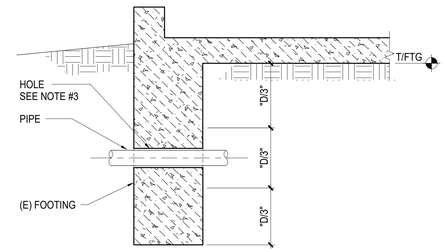


SLAB-ON-GRADE

NOTE:
OVER EXCAVATE TO REMOVE ANY CRACKED OR LOOSE EXISTING MATERIAL BELOW SLAB AND FOOTING EXCAVATIONS. BACKFILL WITH LEAN CONCRETE f'c=1500 PSI @ 28 DAYS AS REQUIRED.

5 HOUSEKEEPING PAD DETAIL

NTS



NOTES:

1. PRIOR TO DRILLING FOR HOLE, LOCATE (E) REINFORCING. DO NOT CUT (E) REINFORCING AND MAINTAIN 1 1/2" CLR AROUND HOLE.
2. MAXIMUM PIPE SIZE 6" DIA UNLESS OTHERWISE NOTED.
3. PROVIDE 1" MINIMUM GAP BETWEEN PIPE AND HOLE ALL AROUND PIPE.
4. LOCATE PIPE WITHIN MIDDLE 1/3 OF (E) FOOTING DEPTH.
5. MINIMUM CLEAR DISTANCE BETWEEN SLEEVES SHALL BE 4x LARGEST SLEEVE DIAMETER.
6. CAULK SEAL GAP AT SLEEVE-TO-PIPE/CONDUIT INTERFACE ON EXTERIOR SIDE OF FOOTING.

6 PIPE PENETRATION THRU (E) FOOTING

1" = 1'-0"

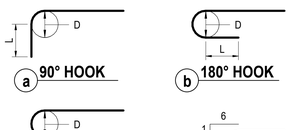
HOOKED BAR DEVELOPMENT LENGTH, Ldh			
BAR SIZE	CONCRETE STRENGTH		
	3000 PSI	4000 PSI	5000 PSI
#3	0' - 8"	0' - 7"	0' - 6"
#4	0' - 11"	0' - 9"	0' - 9"
#5	1' - 2"	1' - 0"	0' - 11"
#6	1' - 4"	1' - 2"	1' - 1"
#7	1' - 7"	1' - 5"	1' - 3"
#8	1' - 10"	1' - 7"	1' - 5"

NOTES:
1. THE HOOKED BAR DEVELOPMENT LENGTHS IN THIS TABLE ARE FOR NORMALWEIGHT CONCRETE. FOR LIGHTWEIGHT CONCRETE, THE HOOKED BAR DEVELOPMENT LENGTH SHALL NOT BE LESS THEN 10xdb, 7 ½" AND 1.3xLdh PER THE TABLE ABOVE.
2. THE HOOKED BAR DEVELOPMENT LENGTHS IN THIS TABLE APPLY TO MEMBERS WITH:
   a. SIDE COVER EQUAL TO AT LEAST 2 ½".
   b. END COVER EQUAL TO AT LEAST 2".



2 HOOKED BAR DEVELOPMENT LENGTHS

NTS



MAIN REINFORCING HOOKS			
BAR SIZE	BEND DIAMETER, D (IN)	90° HOOK L (IN)	180° HOOK L (IN)
#3	2 1/4	4 1/2	2 1/2
#4	3	6	2 1/2
#5	3 3/4	7 1/2	2 1/2
#6	4 1/2	9	3
#7	5 1/4	10 1/2	3 1/2
#8	6	12	4

STIRRUP + TIE REINFORCING HOOKS			
BAR SIZE	BEND DIAMETER, D (IN)	90° HOOK L (IN)	180° HOOK L (IN)
#3	1 1/2	3	3
#4	2	3	3
#5	2 1/2	3 3/4	3 3/4

3 TYPICAL BAR HOOKS

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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BASE DESIGN
582 MARKET ST. STE. 1402
SAN FRANCISCO, CA 94104
Office:(415) 466-2997
www.BASEdesigninc.com

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
TYPICAL CONCRETE DETAILS

INC.2

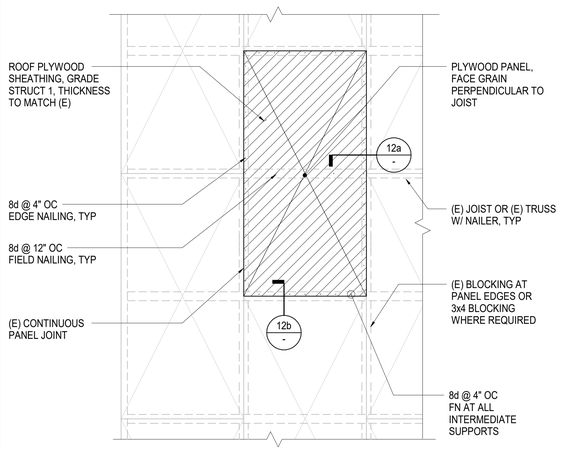
DRAWN BY: SN JOB NUMBER: 23118.01

SHEET NO.
2S-501

DATE: AUGUST 28, 2024

CONSTRUCTION DOCUMENTS

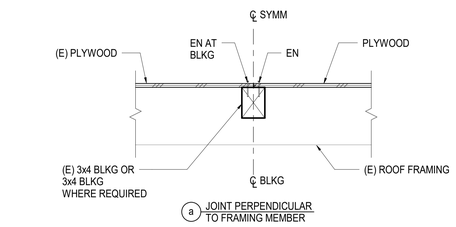
DATE PLOTTED: 9/25/2024 8:49:32 AM FILE LOCATION: Z:\Shared\Projects\2023\23161 - Rio Vista ES Modernization\Drawings\Structural\Increment 2\23161 - Rio Vista ES Modernization - R23.rvt

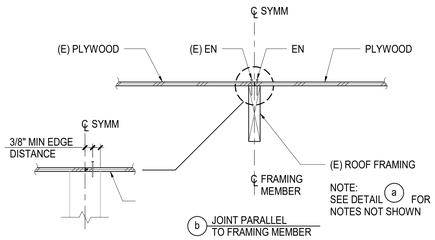


NOTES:
1. FOR 8d NAILS, PROVIDE 1 3/8 MIN PENETRATION INTO FRAMING.
2. REPLACE DAMAGED SHEET FULLY.

11 PLYWOOD SHEATHING AT ROOF

NTS





12 PLYWOOD NAILING

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FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each end, toenail
Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-8d common (2 1/2" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples	Each end, toenail
	2-16 d common (3 1/2" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples	End nail
Flat blocking to truss and web filler	16d common (3 1/2" × 0.162") @ 6" o.c. 3" × 0.131" nails @ 6" o.c. 3" × 14 gage staples @ 6" o.c	Face nail
2. Ceiling joists to top plate	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each joist, toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust)	3-16d common (3 1/2" x 0.163") 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
4. Ceiling joist attached to parallel rafter (heel joint)	Per Table 2308.7.3.1	Face nail
5. Collar tie to rafter	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
6. Rafter or roof truss to top plate	3-10 common (3" × 0.148"); or 3-16d box (3 1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, 7/16" crown	Toenail[c]
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3"14 gage staples, 7/16" crown; or	End nail
	3-10d common (3 1/2" × 0.148"); or 4-16d box (3 1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Toenail
WALL		
8. Stud to stud (not at braced wall panels)	16d common (3 1/2" × 0.162");	24" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	16d box (3 1/2" × 0.135"); or	12" o.c. face nail
	3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	12" o.c. face nail
10. Built-up header (2" to 2" header)	16d common (3 1/2" × 0.162"); or	16" o.c. each edge, face nail
	16d box (3 1/2" × 0.135")	12" o.c. each edge, face nail
11. Continuous header to stud	4-8d common (2 1/2" × 0.131"); or 4-10d box (3" × 0.128")	Toenail
12. Top plate to top plate	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
13. Top plate to top plate, at end joints	8-16d common (3 1/2" × 0.162"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (minimum 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 (3 1/2"x0.163"); or	16" o.c. face nail
	16d box (3 1/2" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2-16d common (3 1/2 " × 0.162"); or 3-16d box (3 1/2" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	16" o.c. face nail
16. Stud to top or bottom plate	4-8d common (2 1/2" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown; or	Toenail
	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	End nail
17. Top plates, laps at corners and intersections	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Face nail
18. 1" brace to each stud and plate	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" 14 gage staples, 7/16" crown	Face nail
19. 1" × 6" sheathing to each bearing	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
20. 1" × 8" and wider sheathing to each bearing	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128")	Face nail

FASTENING SCHEDULE (CONT.)

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
FLOOR		
21. Joist to sill, top plate, or girder	3-8d common (2 1/2" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Toenail
22. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common (2 1/2" × 0.131"); or floor 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	6" o.c., toenail
23. 1" × 6" subfloor or less to each joist	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
24. 2" subfloor to joist or girder	2-16d common (3 1/2" × 0.162")	Face nail
25. 2" planks (plank & beam – floor & roof)	2-16d common (3 1/2" × 0.162")	Each bearing, face nail
26. Built-up girders and beams, 2" lumber layers	20d common (4" × 0.192")	32" o.c., face nail at top and bottom staggered on opposite sides
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	24" o.c. face nail at top and bottom staggered on opposite sides
	And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" 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 (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" 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 (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	End nail
29. Bridging or blocking to joist, rafter or truss	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Each end, toenail
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing		
		Edges (inches) / **Intermediate supports (inches)**
30. 3/8" – 1/2"	6d common or deformed (2" × 0.113") (subfloor and wall)	6 / 12
	8d common or deformed (2 1/2" × 0.113") (roof)	6 / 12
	2 3/8" × 0.113" nail (subfloor and wall)	6 / 12
	1 3/4" 16 gage staple, 7/16" crown (subfloor and wall)	4 / 8
	2 3/8" × 0.113" nail (roof)	4 / 8
	1 3/4" 16 gage staple, 7/16" crown (roof)	3 / 6
31. 19/32" – 3/4"	8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113") (subfloor and wall)	6 / 12
	8d common or deformed 2 1/2" x 0.131"); (roof) or RSRS-01 (2 3/8" x 0.113") nail (roof)[d]	6 / 12
	2 3/8" × 0.113" nail; or 2" 16 gage staple, 7/16" crown	4 / 8
32. 7/8" – 1 1/4"	10d common (3" × 0.148"); or 8d deformed (2 1/2" × 0.131")	6 / 12
Other exterior wall sheathing		
33. 1/2" fiberboard sheathingb	1 1/2" galvanized roofing nail (7/16" head diameter); or 1 1/4" 16 gage staple with 7/16" or 1" crown	3 / 6
34. 25/32" fiberboard sheathingb	1 3/4" galvanized roofing nail (7/16" diameter head); or 1 1/2" 16 gage staple with 7/16" or 1" crown	3 / 6
Wood structural panels, combination subfloor underlayment to framing		
35. 3/4" and less	8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113")	6 / 12
36. 7/8" – 1"	8d common (2 1/2" × 0.131"); or 8d deformed (2 1/2" × 0.131")	6 / 12
37. 1 1/8" – 1 1/4"	10d common (3" × 0.148"); or 8d deformed (2 1/2" × 0.131")	6 / 12
Panel siding to framing		
38. 1/2" or less	6d corrosion-resistant siding (1 7/8" × 0.106"); or 6d corrosion-resistant casing (2" × 0.099")	6 / 12
39. 5/8"	8d corrosion-resistant siding (2 3/8" × 0.128"); or 8d corrosion-resistant casing (2 1/2 " × 0.113")	6 / 12
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing [a]		
		Edges (inches) / **Intermediate supports (inches)**
40. 1/4 "	4d casing (1 1/2" × 0.080"); or 4d finish (1 1/2" × 0.072")	6 / 12
41. 3/8 "	6d casing (2" × 0.099"); or 6d finish (Panel supports at 24 inches)	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. 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.

9 NAILING SCHEDULE

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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BASE DESIGN
582 MARKET ST. STE. 1402
SAN FRANCISCO, CA 94104
Office:(415) 466-2997
www.BASEdesigninc.com

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
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8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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San Ramon, CA 94582
TEL (913) 961-1658

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BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
NAILING SCHEDULE

ING.2

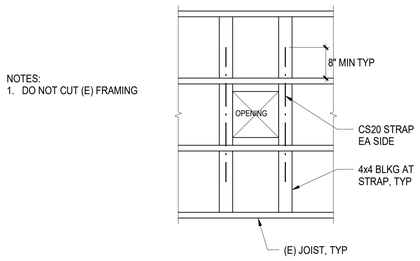
DRAWN BY: SN JOB NUMBER: 23118.01

SHEET NO.
2S-800

DATE: AUGUST 28, 2024

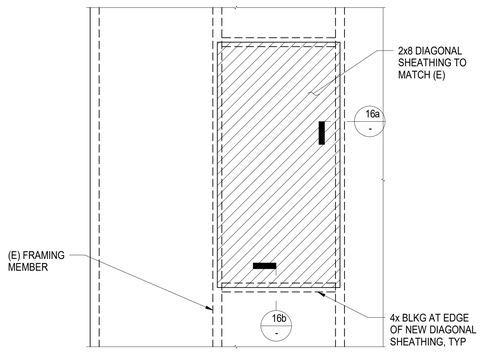
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 9/25/2024 8:49:33 AM FILE LOCATION: Z:\Shared\Projects\2023\23161 - Rio Vista ES Modernization\Drawings\Structural\Increment 2\23161 - R23.rvt



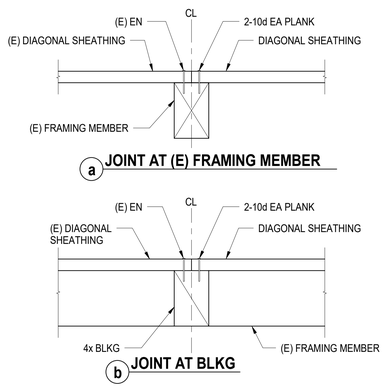
14 SMALL OPENING IN DIAPHRAGM (21"x21" MAX)

NTS



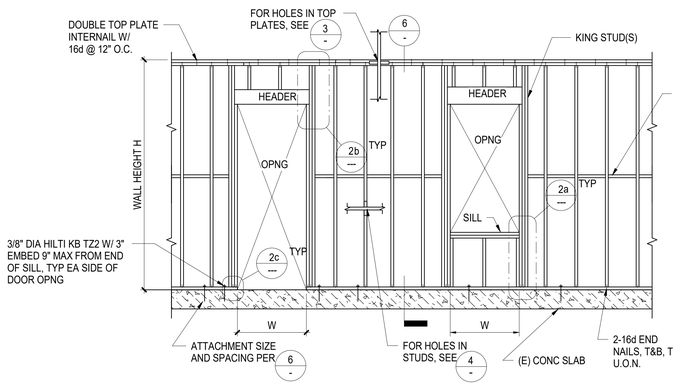
15 DIAGONAL SHEATHING AT ROOF

NTS



16 DIAGONAL SHEATHING NAILING

NTS



NON-BEARING WALL STUD SCHEDULE		
WALL HEIGHT	STUD SIZE	SPACING
H < 14'-0"	2x6 2x4	16"

b

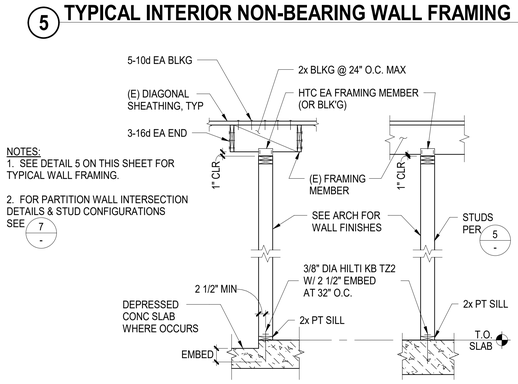
NON-BEARING WALL SCHEDULE AT OPENINGS				
OPENING WIDTH	KING STUD(S)	HEADER DEPTH	BEARING STUD(S)	SILL
W< 6'-0"	2x	6x	1-2x	2-2x

a

NOTE:
STUD, SILL, AND HEADER WIDTHS TO MATCH WALL FRAMING SIZE.

5 TYPICAL INTERIOR NON-BEARING WALL FRAMING

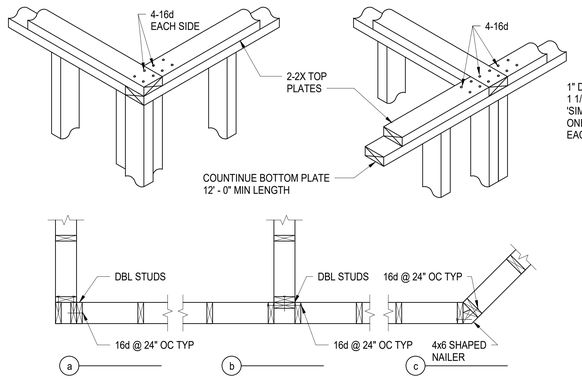
NTS



NOTES:
1. SEE DETAIL 5 ON THIS SHEET FOR TYPICAL WALL FRAMING.
2. FOR PARTITION WALL INTERSECTION DETAILS & STUD CONFIGURATIONS SEE 7

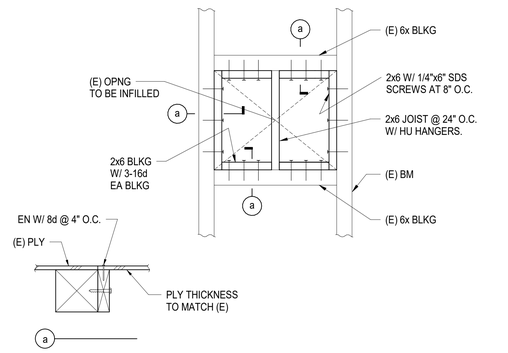
6 NON-BEARING WALL PARTITION

NTS



7 WALL INTERSECTIONS

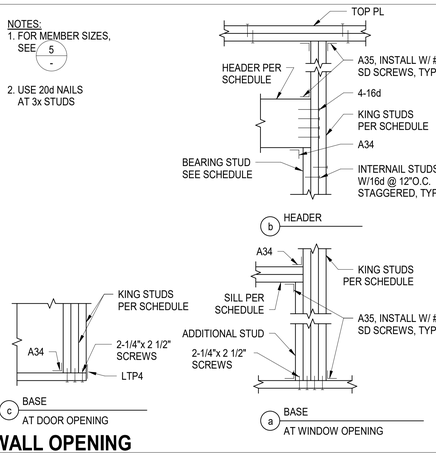
NTS



8 INFILL OF EXISTING OPENING

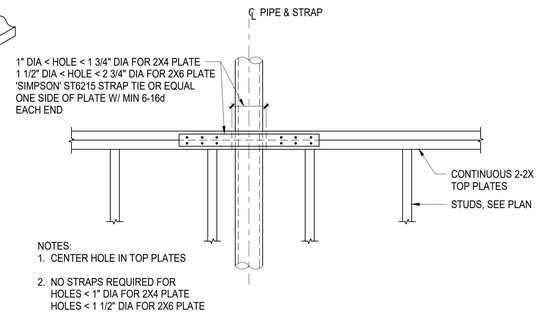
NTS

NOTES:
1. FOR MEMBER SIZES, SEE 5
2. USE 20d NAILS AT 3x STUDS



2 WALL OPENING

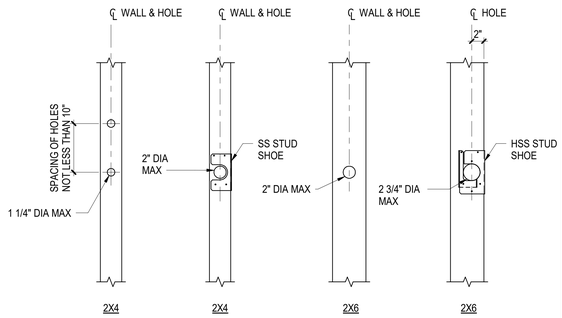
NTS



NOTES:
1. CENTER HOLE IN TOP PLATES
2. NO STRAPS REQUIRED FOR HOLES < 1" DIA FOR 2X4 PLATE HOLES < 1 1/2" DIA FOR 2X6 PLATE

3 TOP PLATE PENETRATIONS

NTS



4 PENETRATIONS IN STUDS

NTS

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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BASE DESIGN
582 MARKET ST. STE. 1402
SAN FRANCISCO, CA 94104
Office:(415) 466-2997
www.BASEdesigninc.com

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER GOKHAN AKALIN NO. 30194 STRUCTURAL STATE OF CALIFORNIA

REVISIONS

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FRAMING DETAILS

INC.2

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SYMBOL LEGEND

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		LONG SWEEP 90° ELBOW - RECTANGULAR, ROUND OR OVAL
		45° ELBOW - RECTANGULAR, ROUND OR OVAL
		30° ELBOW - RECTANGULAR, ROUND OR OVAL
		90° ELBOW - RECTANGULAR DUCT WITH TURNING VANES
		45° LATERAL - ROUND TO ROUND OR OVAL TO OVAL
		90° TAKEOFF WITH 45° TAPER - RECTANGULAR TO RECTANGULAR (FOR BRANCH TAKEOFF LONGER THAN 50'-0", USE 15)
		90° TAKEOFF WITH 45° ELONGATED TEE - ROUND TO ROUND
		Y BRANCH - ROUND OR OVAL DUCT
		90° RADIUS SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT
		90° RECTANGULAR SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT
		TRANSITION - RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL
		FLEXIBLE DUCT - ROUND
		FLEXIBLE DUCT - RECTANGULAR

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		SECTION AT SUPPLY AIR OR MAKE-UP AIR DUCT UP
		SECTION AT RETURN AIR OR COMBUSTION AIR DUCT UP
		SECTION AT EXHAUST AIR OR RELIEF AIR DUCT UP
		SUPPLY AIR DUCT DOWN
		RETURN AIR DUCT DOWN
		EXHAUST AIR DUCT DOWN
		ROUND DUCT UP - SUPPLY, RETURN OR EXHAUST
		ROUND DUCT DOWN - SUPPLY, RETURN OR EXHAUST
		CEILING DIFFUSER - ONE, TWO, THREE AND FOUR WAY THROW
		CEILING - RETURN AND EXHAUST REGISTERS
		SIDEWALL - SUPPLY DIFFUSER, RETURN AND EXHAUST REGISTERS
		MANUAL BALANCE DAMPER WITH DUCT ACCESS DOOR
	M	MOTORIZED BALANCE DAMPER WITH DUCT ACCESS DOOR
FSD OR F/D	FSD OR F/D	FIRE DAMPER WITH DUCT ACCESS DOOR FIRE/SMOKE DAMPER WITH DUCT ACCESS DOOR
24 x 12	24 x 12	ACOUSTICALLY LINED DUCT. DIMENSIONS ARE INSIDE
	12x12 CD-1 300	REGISTER NECK SIZE AND TAG DESIGN CFM PANEL AT T-BAR CEILING

SYMBOL	ABBRV.	IDENTIFICATION
	CW	COLD WATER (DOMESTIC)
	HW	HOT WATER
	HWR	HOT WATER RETURN
	V	VENT
TP	TP	TRAP PRIMER LINE
W	S OR W	SOIL OR WASTE ABOVE GRADE
W	S OR W	SOIL OR WASTE BELOW GRADE
AW	AW	ACID WASTE
GW	GW	GREASE WASTE
RWL	RWL	RAIN WATER LEADER
OD	OD	OVERFLOW DRAIN
CD	CD	CONDENSATE DRAIN
E	CAP	CAP
CONT	CONT	CONTINUATION
		BALL VALVE
OR		VALVE
CKV	CKV	CHECK VALVE
T&PRV	T&PRV	TEMP. & PRESS. RELIEF VALVE
GPR	GPR	GAS PRESSURE REGULATOR
		CIRCULATION PUMP (DOMESTIC)
WHA	WHA	WATER HAMMER ARRESTOR
TP	TP	TRAP PRIMER ACCESS PANEL
GCO/FCO	GCO/FCO	GRADE CLEAN-OUT/FLOOR CLEAN-OUT
WCO	WCO	WALL CLEAN-OUT
HB	HB	HOSE BIBB
		UNION
AN	AN	PIPE ANCHOR
		FLEXIBLE CONNECTOR

SYMBOL	ABBRV.	IDENTIFICATION
	P.O.C.	POINT OF CONNECTION
		REMOVE EXISTING
		LINE BREAK
		TEE DOWN
		90 DOWN
		CONCENTRIC & ECCENTRIC REDUCERS
	AD, AP	ACCESS DOOR, ACCESS PANEL
	MAV	MANUAL AIR VENT
T	T	THERMOSTAT MOUNTED @ 48" AFF. MAX.
CO2	CO2	CARBON DIOXIDE (CO2) SENSOR
	AD	AREA DRAIN
	FD	FLOOR DRAIN
	FS	FLOOR SINK
OR	VB	VALVE IN BOX
	TH	THERMOMETER
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
FC A-1		EQUIPMENT DESIGNATION TAG NUMBER
1 MP2.1		SECTION 1 / SHEET MP2.1

MEP COMPONENT ANCHORAGE NOTE

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

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, 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 REFERENCED 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 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MP [X] MD [X] PP [X] E [ ] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP [ ] MD [ ] PP [ ] E [ ] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM #)
#0295-13, "UNISTRUT" OR
#0052-13, "B-LINE/TOLCO"

ABBREVIATIONS

&	AND	EQUIP	EQUIPMENT	P/T	PRESSURE/TEMPERATURE
°F	DEGREES FAHRENHEIT	ESP	EXTERNAL STATIC PRESSURE	PD	PRESSURE DROP
AAV	AUTOMATIC AIR VENT	EW	ENTERING WATER	PH	PHASE
AC	AIR CONDITIONER	EWB	ENTERING WET BULB	PLF	POUNDS PER LINEAR FOOT
AD	ACCESS DOOR	EWT	ENTERING WATER TEMPERATURE	POC	POINT OF CONNECTION
AFF	ABOVE FINISH FLOOR	EXT	EXTERIOR	PRV	PRESSURE REDUCING VALVE
AF/UE	ANNUAL FUEL UTILIZATION EFFICIENCY	FD	FLOOR DRAIN	PSI	POUNDS PER SQUARE INCH
AL	ACOUSTICALLY LINED	FFE	FINISHED FLOOR ELEVATION	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
AMP	AMPERE	FLA	FULL LOAD AMPS		
AN	PIPE ANCHOR	FLEX	FLEXIBLE	QTY	QUANTITY
AP	ACCESS PANEL	FPM	FEET PER MINUTE	RA	RETURN AIR
APPROX	APPROXIMATE	FS	FLOOR SINK	RAD	RETURN AIR DAMPER
ARCH	ARCHITECT / ARCHITECTURAL	FT	FEET	RH	RELATIVE HUMIDITY
AW	ACID WASTE	FT HD	FEET HEAD	RL	REFRIGERANT LIQUID
BDD	BACK DRAFT DAMPER	FTR	FLUE THRU ROOF	RM	ROOM
BFP	BACKFLOW PREVENTER	G	GAS - LOW PRESSURE	RP	REDUCED PRESSURE
BHP	BRAKE HORSEPOWER	GA	GAUGE	RPM	REVOLUTIONS PER MINUTE
BLDG	BUILDING	GAL	GALLON	RS	REFRIGERANT SUCTION
BOD	BOTTOM OF DUCT	GPM	GALLONS PER MINUTE	RV	RELIEF VALVE
BOP	BOTTOM OF PIPE	GPR	GAS PRESSURE REGULATOR	SA	SUPPLY AIR
BTU	BRITISH THERMAL UNIT	GW	GREASE WASTE PIPING	SC	SENSIBLE COOLING
BTUH	BRITISH THERMAL UNITS PER HOUR	HP	HORSEPOWER	SD	SMOKE DAMPER
BTWN	BETWEEN	HR	HOUR	SEER	SEASONAL ENERGY EFFICIENCY RATIO
CA	COMBUSTION AIR	HTG	HEATING	SM	SHEET METAL
CD	CONDENSATE DRAIN	HW	HOT WATER	SOV	SHUT-OFF VALVE
CFH	CUBIC FEET PER HOUR	HWR	HOT WATER RETURN	SP	STATIC PRESSURE
CFM	CUBIC FEET PER MINUTE	HZ	HERTZ	SPEC	SPECIFICATION
CHWR	CHILLED WATER RETURN	IE	INVERT ELEVATION	SQ	SQUARE
CHWS	CHILLED WATER SUPPLY	IN	INCH	SQFT, FT^2	SQUARE FEET
CIRC	CIRCULATING	INV	INVERT	SQIN, IN^2	SQUARE INCHES
℄	CENTERLINE	KW	KILOWATTS	STRUCT	STRUCTURAL
CLG	COOLING, CEILING	KWH	KILOWATT HOUR	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
CLR	CLEAR	LAT	LEAVING AIR TEMPERATURE		
CONC	CONCRETE	LBS	POUNDS	TC	TOTAL COOLING
CONN	CONNECTION	LVR	LOUVER	TDH	TOTAL DYNAMIC HEAD
CONT	CONTINUED, CONTINUATION	LWB	LEAVING WET BULB	TEMP	TEMPERATURE
COOL	COOLING	LWT	LEAVING WATER TEMPERATURE	TH	THERMOMETER
COP	COEFFICIENT OF PERFORMANCE	MAD, MD	MANUAL AIR DAMPER	THRU	THROUGH
CW	COLD WATER	MAV	MANUAL AIR VENT	TP	TRAP PRIMER
D/L	DOOR LOUVER	MAX	MAXIMUM	TSP	TOTAL STATIC PRESSURE
DB	DRY BULB	MBH	1000 BTU PER HOUR	TV	TURNING VANES
DCV	DOUBLE CHECK VALVE	MCA	MINIMUM CIRCUIT AMPS	TW	TEMPERED WATER
DF	DRINKING FOUNTAIN	MCP	MECHANICAL CONTROL PANEL	TYP	TYPICAL
DN	DOWN	MECH	MECHANICAL	UL	UNDERWRITER'S LABORATORIES
DP	DIFFERENTIAL PRESSURE	MFR	MANUFACTURER	UON	UNLESS OTHERWISE NOTED
DWGS	DRAWINGS	MPG	GAS - MEDIUM PRESSURE	V	VOLT OR VENT
(E)	EXISTING	MIN	MINIMUM	VB	VALVE IN VALVE BOX
EA	EXHAUST AIR	MOCP	MAXIMUM OVERCURRENT PROTECTION	VFD	VARIABLE FREQUENCY DRIVE
EAD	EXHAUST AIR DAMPER	(N)	NEW	VTR	VENT THROUGH ROOF
EAT	ENTERING AIR TEMPERATURE	NC	NORMALLY CLOSED	W	WATTS OR WASTE
EDB	ENTERING DRY BULB	NIC	NOT IN CONTRACT	W/	WITH
EER	ENERGY EFFICIENCY RATIO	NO	NORMALLY OPEN	WB	WET BULB
EFF	EFFICIENCY	NTS	NOT TO SCALE	WC	WATER COLUMN
ELEC	ELECTRICAL	OA	OUTSIDE AIR	WH	WATER HEATER
ELEV	ELEVATION	OAD	OUTSIDE AIR DAMPER	WT	WEIGHT
ENT	ENTERING	OC	ON CENTER		
EQ	EQUAL	OD	OUTSIDE DIAMETER		

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE INSTALLATION. ALL METHODS AND REQUIREMENTS FOR INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE PLANS PRIOR TO SUBMITTING BID. SUBMITTAL OF THE CONTRACTOR'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED.
2. CONTRACTOR SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL SYSTEMS.
3. THE DRAWINGS INCLUDED IN THIS SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORD'S DESIGN INTENT FOR ALL EQUIPMENT AND RELATED PIPING ETC. INDIVIDUAL POWER NEEDS, CONTROLS AND OTHER CONNECTIONS SHALL BE COORDINATED AND COMPLETED/ PROVIDED FOR COMPLETE SYSTEM OPERATION BY CONTRACTOR.
4. EQUIPMENT LOCATIONS AND PIPE ROUTING ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND ROUTE PIPING IN LOCATIONS WHICH MEET CODE REQUIREMENTS AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.
5. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN HATCHED. SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
6. ALL EQUIPMENT, EQUIPMENT CONNECTIONS, PIPING, MOUNTING LOCATIONS ETC. ARE TO BE VERIFIED WITH OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO BEGINNING OF THE ROUGH-IN.
7. ALL WORK SHALL BE PERFORMED TO STATE, LOCAL, NATIONAL AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.
8. ALL EQUIPMENT SHALL BE NEW AND CLEARLY LABELED AND IDENTIFIED. LABELS SHALL NOT BE COVERED BY OTHER CONSTRUCTION ELEMENTS.
9. UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS, CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT AND WORK FOR A PERIOD OF ONE YEAR.
10. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS, EVERYTHING IS NEW.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE WALL OR STRUCTURE.
12. CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL INCLUDE THE PRICE OF INSTALLING ALL CONNECTIONS AS REQUIRED IN THEIR BIDS.
13. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ENGINEER OF RECORD. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.
14. THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/ APPROVAL AND CONTRACTOR BIDDING PURPOSES.
15. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT DRAWINGS.
16. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO BUILDING SERVICES(S) (ELECTRICAL/ HVAC/ PLUMBING ETC.) MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTIME SHALL NOT OCCUR DURING SCHOOL OPERATION HOURS.
17. IN INSTANCES WHERE A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS AND INSTALLATION MANUALS FOR THE PROJECT EXISTS, THE CONTRACTOR SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.
18. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.
19. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.
20. FOR ALL VOLUME DAMPERS LOCATED ABOVE CEILINGS, PROVIDE 12" LONG 1/2" WIDE FLUORESCENT ORANGE TAPE TO MARK DAMPER LOCATIONS.
21. ALL DUCTWORK, CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. WHERE WORK HAS TO BE INSTALLED IN EXPOSED LOCATIONS, IT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES OR PER ARCHITECT'S DIRECTION.
22. CONTRACTOR SHALL PREPARE AND SUBMIT THE CALIFORNIA ENERGY COMMISSION TITLE 24 CERTIFICATE OF ACCEPTANCE FORMS RELATED TO INSTALLED EQUIPMENT AND SYSTEMS.
23. SAFETY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
24. CONTRACTOR'S EQUIPMENT: COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. COORDINATE WITH OWNER FOR LOCATION AND PROCEDURES.
25. ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.
26. CONSTRUCTION SCHEDULING: CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.
27. TITLE 24 COMPLIANCE: THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (2022 CBC). SHOULD ANY CONDITIONS BE DISCOVERED NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK DOES NOT COMPLY WITH 2022 CBC, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.
28. INSTALLER QUALIFICATIONS: EACH EMPLOYEE SHALL BE CERTIFIED BY MANUFACTURER FOR PROPER INSTALLATION OF SYSTEMS, INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, PIPING, CONTROLS, AND ACCESSORIES INDICATED AND FURNISHED FOR INSTALLATION. INSTALLER CERTIFICATION SHALL BE VALID AND CURRENT FOR DURATION OF PROJECT. INSTALLER SHALL HAVE DEMONSTRATED PAST EXPERIENCE WITH PRODUCTS BEING INSTALLED FOR PERIOD WITHIN FIVE (5) CONSECUTIVE YEARS BEFORE TIME OF BID.

DSA GENERAL NOTES

1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO MODERNIZE THE SCHOOL'S CAMPUS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
2. THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.
3. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2022.
4. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.
5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

LIST OF GOVERNING CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.
1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
2. INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
3. TESTS AND TESTING LABORATORY PER SECTION 4-335.
4. SPECIAL INSPECTION PER SECTION 4-333(c).
5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(c).
6. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4-333(a) AND 4-341.
7. GOVERNING CODES: TITLE 24.
8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECTION 4-331.
10. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.

DRAWING INDEX

2MP-001 LEGENDS & NOTES - MECHANICAL & PLUMBING
2MP-002 SCHEDULES - MECHANICAL & PLUMBING
2MP-201 BLDGS 3 & 4 DEMO & NEW FLOOR PLANS - MECHANICAL & PLUMBING
2MP-202 BLDGS 6, 7, 8, 9 DEMO & NEW FLOOR PLANS - MECHANICAL & PLUMBING
2MP-203 BLDGS 10, 11, 12 - DEMO & NEW FLOOR PLANS - MECHANICAL & PLUMBING
2MP-301 BLDGS 11 & 12 - DEMO & NEW ROOF PLANS - MECHANICAL & PLUMBING
2MP-401 BLDGS 8, & 9 - DEMO & NEW RESTROOM PLANS - MECHANICAL & PLUMBING
2MP-402 BLDG 3 - DEMO & NEW RESTROOM PLANS - MECHANICAL & PLUMBING
2MP-501 CONTROLS - MECHANICAL
2MP-601 DETAILS - MECHANICAL & PLUMBING
2MP-602 DETAILS - MECHANICAL & PLUMBING
2MP-801 T24 - MECHANICAL

AGENCY APPROVAL DSA# 01-121440

196
911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146
CYPRESS Engineering Group
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com
HVAC, Plumbing, Fire Protection
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CONSULTANTS

MECHANICAL ENGINEER
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9 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — MEIN SERTTUNG — No. M31059 — EXP. JUNE 30, 2025 — MECHANICAL — STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
LEGENDS & NOTES - MECHANICAL & PLUMBING

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

SHEET NO.
2MP-001

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.dwg

DATE PLOTTED: 9/24/2024 4:24 PM

PLUMBING FIXTURES SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	ROUGH-IN CONNECTIONS (IN.)					FLUSH VALVE	SEAT	FAUCET	CARRIER	DRAIN ASSEMBLY	P-TRAP	STOP / SUPPLY	INSULATION KIT	ADA (Y/N)	NOTES
				TRAP	W	V	CW	HW										
CS-1	CLASSROOM SINK	ELKAY	DRKADQ222065-2LM (6½" DEEP)	1-1/2"	2"	1-1/2"	1/2"	—	—	—	MOEN 8103 (W/ 1.5 GPM AERATOR)	—	ELKAY LKAD35	DEARBORN BRASS 710-1	BRASSCRAFT SCR19X C	TRUEBRO LAV GUARD 2	Y	3
DF-1	DRINKING FOUNTAIN	HAWS	1117L	1-1/2"	2"	1-1/2"	1/2"	—	—	—	—	HAWS 6717	—	HAWS SUPPLIED W/ DF	BRASSCRAFT SCR19X C	—	Y	4, 5
L-1	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0356.421	1-1/2"	2"	1-1/2"	1/2"	—	—	—	MOEN 8884	JAY R. SMITH 0722	MCGUIRE 155WC	MCGUIRE MCT150	BRASSCRAFT SCR19X C	TRUEBRO LAV GUARD 2	Y	1, 2, 4, 5
U-1	WALL HUNG URINAL (ELEMENTARY. HT.)	AMERICAN STANDARD	PINTBROOK 6002.001	INT	2"	1-1/2"	3/4"	—	MOEN 8312M0125 (0.125 GPF)	—	—	JAY R. SMITH 0637	—	—	—	—	N	4, 5
WC-1	FLOOR MOUNT WATER CLOSET (ADULT ADA HT.)	AMERICAN STANDARD	MADERA FLOWISE 3461.001	INT	4"	2"	1-1/2"	—	MOEN 8310M128 (1.28 GPF)	BEMIS 1955SSCT	—	—	—	—	—	—	Y	4, 5
WC-3	FLOOR MOUNT WATER CLOSET (KINDER. HT.)	AMERICAN STANDARD	BABY DEVORO FLOWISE 2282.001	INT	4"	2"	1-1/2"	—	MOEN 8310M128 (1.28 GPF)	AMERICAN STANDARD 5001G.055	—	—	—	—	—	—	N	4, 5

1. 0.5 GPM ECONO-FLOW VANDAL PROOF NON-AERATING WATER SUPPLY.
2. PROVIDE WITH LOOSE KEY AND B3-16A SUPPLY.
3. PROVIDE WITH ELKAY LK1141A BUBBLER.
4. FOR RESTROOM PLUMBING FIXTURE HEIGHTS REFER TO ARCHITECT DETAILS.
5. FOR ADA FIXTURE LOCATIONS SEE ARCHITECT PLANS.

PACKAGED AIR CONDITIONING UNITS SCHEDULE (OWNER FURNISHED CONTRACTOR INSTALLED)

TAG	LOCATION BLD. / ROOM SERVED	MANUFACTURER	MODEL NO.	POWER EXHAUST	COOLING MBH		GAS HEATING MBH		AIRFLOW CFM	ESP IN. W.G.	OUTSIDE AIR MIN. CFM	OUTSIDE AIR MAX. DCV CFM	FAN RPM	MOTOR BHP	SEER	AFUE %	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
					TOTAL	SENSIBLE	INPUT	OUTPUT									V / PH	MCA	MOCP			
AC-11-C2	BLD. 11 ROOF RM. C2	CARRIER	48GCGT04C2A3-0A3A0 ULTRA LOW NOX 2-STAGE COOLING	—	35.67	25.56	60	49	1,200	0.91	200	500	1,894	0.50	16.00	81	208 / 1	27	40	800	5/2MP-601	1, 2, 3, 4, 5, 6, 7, 8, 12
AC-12-C1	BLD. 12 ROOF RM. C1	CARRIER	48GCGJ05A3M5-3A3A0 ULTRA LOW NOX 2-STAGE COOLING	—	49.90	37.80	60	49	1,600	1.50	200	500	2,114	1.00	17.40	81	208 / 3	26	30	805	5/2MP-601	1, 3, 4, 5, 9, 10, 11, 12

1. WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES.
2. FURNISHED W/ CANFAB CURB ADAPTER CFCYB-003, FIELD VERIFY CURB ADAPTER FITS (E) CURB DIMENSIONS.
3. CONNECT TO (E) THERMOSTAT NETWORKED TO SCHOOL CONTROL SYSTEM. COORDINATE WITH MANUFACTURER.
4. PROVIDE WITH MERV 13 FILTERS.
5. VERTICAL DISCHARGE CONFIGURATION.
6. FURNISHED WITH ULTRA LOW LEAK - VERTICAL ECONOMIZER X WITH SOLID-STATE W7220 CONTROLLER . VERIFY COMPATIBLE W/ (E) THERMOSTAT / SCHOOL CONTROL SYSTEM.
7. FURNISHED W/ ULTRA LOW NOX - FLUE DISCHARGE DEFLECTOR
8. FURNISHED W/ SIDE FILTER ACCESS DOOR KIT & 16X25X2 MERV-13 REPLACEMENT AIR FILTERS.
9. FURNISHED W/ MICROMETL CURB ADAPTER CA-CAR-537-TRN-544-24, FIELD VERIFY CURB ADAPTER FITS (E) CURB DIMENSIONS.
10. FURNISHED WITH ULTRA LOW LEAK ECONOMIZER W/ POWERED EXHAUST & CONTROLLERS COMPATIBLE W/ (E) THERMOSTAT / SCHOOL CONTROL SYSTEM.
11. FURNISHED WITH LOUVERED HAIL GUARDS, UN POWERED CONVENIENCE OUTLET, AND HINGED ACCESS PANELS.
12. IF EQUIPMENT MODEL SPECIFIED IS NO LONGER AVAILABLE AT TIME OF CONSTRUCTION FOR ANY REASON INCLUDING NEW REGULATORY REQUIREMENTS, PROVIDE THE NEW EQUIVALENT MODEL & INCLUDE EXPECTED PRICE DIFFERENCES IN BID.

GAS FIRED FURNACE SCHEDULE (OWNER FURNISHED CONTRACTOR INSTALLED)

TAG	LOCATION BLD. / ROOM SERVED	MANUFACTURER	MODEL NO.	GAS HEATING		AIRFLOW CFM	ESP IN. W.G.	OUTSIDE AIR MIN. CFM	OUTSIDE AIR MAX. DCV CFM	AFUE %	MOTOR	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
				INPUT MBH	OUTPUT MBH						HP	V / PH	MCA	MOCP			
F-10-C2	BLD. 10 RM. C2	CARRIER	58SU0B100M2120	100	80	1,620	0.8	200	500	80	1	115 / 1	18.2	20	155	1/2MP-601	1, 2, 3, 4
F-10-C3	BLD. 10 RM. C3	CARRIER	58SU0B100M2120	100	80	1,620	0.8	200	500	80	1	115 / 1	18.2	20	155	1/2MP-601	1, 2, 3, 4
F-10-C4	BLD. 10 RM. C4	CARRIER	58SU0B100M2120	100	80	1,620	0.8	200	500	80	1	115 / 1	18.2	20	155	1/2MP-601	1, 2, 3, 4
F-10-C5	BLD. 10 RM. C5	CARRIER	58SU0B100M2120	100	80	1,620	0.8	200	500	80	1	115 / 1	18.2	20	155	1/2MP-601	1, 2, 3, 4
F-10-C6	BLD. 10 RM. C6	CARRIER	58SU0B100M2120	100	80	1,620	0.8	200	500	80	1	115 / 1	18.2	20	155	1/2MP-601	1, 2, 3, 4

1. PROVIDE WITH VENT KIT.
2. PROVIDE WITH 2" THICK MERV 13 FILTERS.
3. CONNECT TO (E) THERMOSTAT NETWORKED TO SCHOOL CONTROL SYSTEM. COORDINATE WITH MANUFACTURER.
4. PROVIDE ECONOMIZER CONTROLLER & SENSORS COMPATIBLE W/ (E) THERMOSTAT / SCHOOL CONTROL SYSTEM. PROVIDE MOTORIZED OUTSIDE AIR DAMPER TO BE CONTROLLED BY ECONOMIZER CONTROLLER.
5. IF EQUIPMENT MODEL SPECIFIED IS NO LONGER AVAILABLE AT TIME OF CONSTRUCTION FOR ANY REASON INCLUDING NEW REGULATORY REQUIREMENTS, PROVIDE THE NEW EQUIVALENT MODEL & INCLUDE EXPECTED PRICE DIFFERENCES IN BID.

COOLING COILS SCHEDULE (OWNER FURNISHED CONTRACTOR INSTALLED)

TAG	LOCATION BLD. / ROOM SERVED	MANUFACTURER	MODEL NO.	CONDENSING UNIT	NOMINAL CAPACITY TONS	COOLING	REFRIGERANT PIPING		WEIGHT LBS	NOTES
						TOTAL MBH	LIQUID	GAS		
CC-10-C2	BLD. 10 RM. C2	CARRIER	CVPVA4821XMC	CU-10-C2	4	54.43	3/8"	7/8"	45	1, 2
CC-10-C3	BLD. 10 RM. C3	CARRIER	CVPVA4821XMC	CU-10-C3	4	54.43	3/8"	7/8"	45	1, 2
CC-10-C4	BLD. 10 RM. C4	CARRIER	CVPVA4821XMC	CU-10-C4	4	54.43	3/8"	7/8"	45	1, 2
CC-10-C5	BLD. 10 RM. C5	CARRIER	CVPVA4821XMC	CU-10-C5	4	54.43	3/8"	7/8"	45	1, 2
CC-10-C6	BLD. 10 RM. C6	CARRIER	CVPVA4821XMC	CU-10-C6	4	54.43	3/8"	7/8"	45	1, 2

1. VERIFY REFRIGERANT PIPE SIZES AND ROUTING LIMITATIONS WITH MANUFACTURER PRIOR TO INSTALLATION.
2. IF EQUIPMENT MODEL SPECIFIED IS NO LONGER AVAILABLE AT TIME OF CONSTRUCTION FOR ANY REASON INCLUDING NEW REGULATORY REQUIREMENTS, PROVIDE THE NEW EQUIVALENT MODEL & INCLUDE EXPECTED PRICE DIFFERENCES IN BID.

CONDENSING UNITS SCHEDULE (OWNER FURNISHED CONTRACTOR INSTALLED)

TAG	LOCATION BLD. / ROOM SERVED	MANUFACTURER	MODEL NO.	COOLING COIL	NOMINAL CAPACITY TONS	COOLING	REFRIGERANT PIPING		SEER	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
						TOTAL MBH	LIQUID	GAS		V / PH	MCA	MOCP			
CU-10-C2	BLD. 10 OUTSIDE RM. C2	CARRIER	24AHA448A006	CC-10-C2	4	45.64	3/8"	7/8"	14	460 / 3	8.4	15	215	12/2MP-601	1, 2, 3, 4
CU-10-C3	BLD. 10 OUTSIDE RM. C3	CARRIER	24AHA448A006	CC-10-C3	4	45.64	3/8"	7/8"	14	460 / 3	8.4	15	215	12/2MP-601	1, 2, 3, 4
CU-10-C4	BLD. 10 OUTSIDE RM. C4	CARRIER	24AHA448A006	CC-10-C4	4	45.64	3/8"	7/8"	14	460 / 3	8.4	15	215	12/2MP-601	1, 2, 3, 4
CU-10-C5	BLD. 10 OUTSIDE RM. C5	CARRIER	24AHA448A006	CC-10-C5	4	45.64	3/8"	7/8"	14	460 / 3	8.4	15	215	12/2MP-601	1, 2, 3, 4
CU-10-C6	BLD. 10 OUTSIDE RM. C6	CARRIER	24AHA448A006	CC-10-C6	4	45.64	3/8"	7/8"	14	460 / 3	8.4	15	215	12/2MP-601	1, 2, 3, 4

1. VERIFY REFRIGERANT PIPE SIZES AND ROUTING LIMITATIONS WITH MANUFACTURER PRIOR TO INSTALLATION.
2. FURNISHED W/ LOW PRESSURE SW KIT
3. FURNISHED W/ CRANKCASE HEATER KIT.
4. IF EQUIPMENT MODEL SPECIFIED IS NO LONGER AVAILABLE AT TIME OF CONSTRUCTION FOR ANY REASON INCLUDING NEW REGULATORY REQUIREMENTS, PROVIDE THE NEW EQUIVALENT MODEL & INCLUDE EXPECTED PRICE DIFFERENCES IN BID.

FANS SCHEDULE

TAG	LOCATION BLD. / ROOM SERVED	MANUFACTURER	MODEL NO.	TYPE	AIRFLOW CFM	ESP IN. W.G.	FAN RPM	SOUND POWER SONES	MOTOR			WEIGHT LBS	MOUNTING DETAIL	NOTES
									WATTS	HP	V / PH			
EF-3-306	BLD. 3 RR. 306	GREENHECK	SP-A200	CEILING EXHAUST FAN	120	0.25	648	1.1	19	—	115 / 1	35	2 OR 3 /2MP-601	1, 2, 3, 4
EF-8-807	BLD. 8 RR. 807	GREENHECK	SP-A200	CEILING EXHAUST FAN	120	0.25	648	1.1	19	—	115 / 1	35	2 OR 3 /2MP-601	1, 2, 3, 4
EF-9-902	BLD. 9 RR. 902	GREENHECK	SP-A200	CEILING EXHAUST FAN	120	0.25	648	1.1	19	—	115 / 1	35	2 OR 3 /2MP-601	1, 2, 3, 4

1. CONTROL W/ LIGHTS BY WALL SWITCH / OCCUPANCY SENSOR.
2. PROVIDE WITH UL LISTING, FAN MOUNTED SPEED CONTROL, & BACKDRAFT DAMPER.
3. PROVIDE WITH FACTORY ISOLATION KIT.
4. PROVIDE ROOF CURB CAP. FOR MOUNTING SEE DETAIL 13/2MP6.1.

AGENCY APPROVAL DSA# 01-121440

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911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146

CYPRESS Engineering Group

831.218.1802
8 Harris Court, Suite A8
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cypresseg.com

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TEL (831) 218-1802

CIVIL ENGINEER
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TEL (913) 961-1658

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — MECHANICAL — STATE OF CALIFORNIA
No. M31059
EXP. JUNE 30, 2025

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

SCHEDULES - MECHANICAL & PLUMBING

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

SHEET NO.

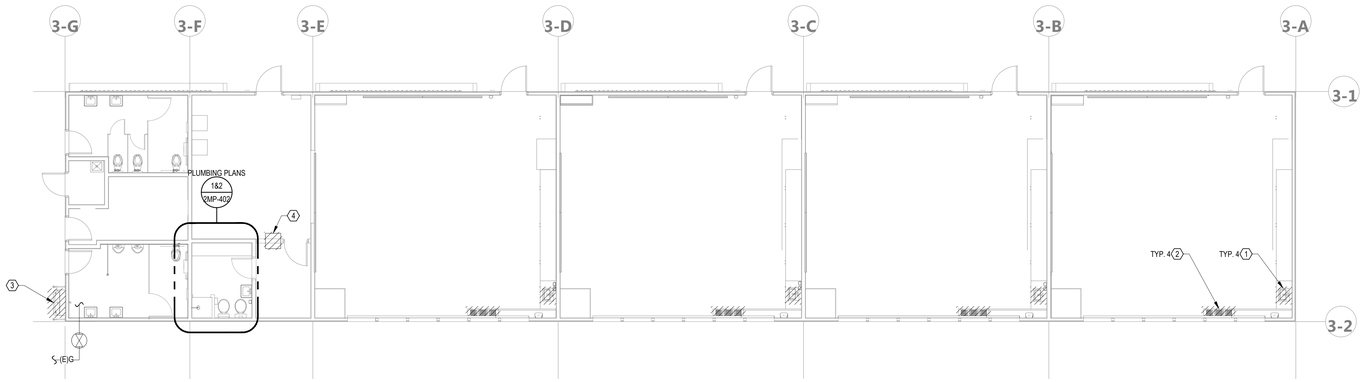
2MP-002

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENTS

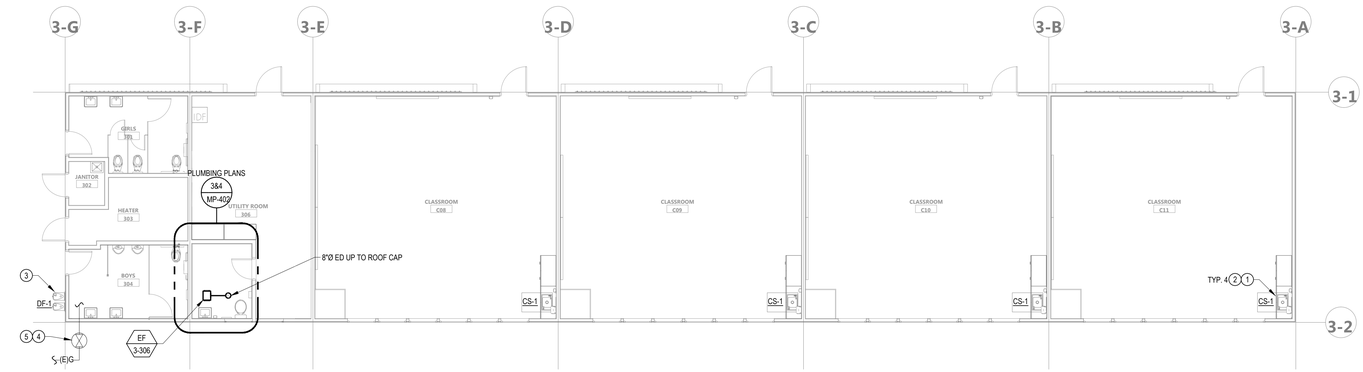
DATE PLOTTED: 9/24/2024 4:24 PM

FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.dwg



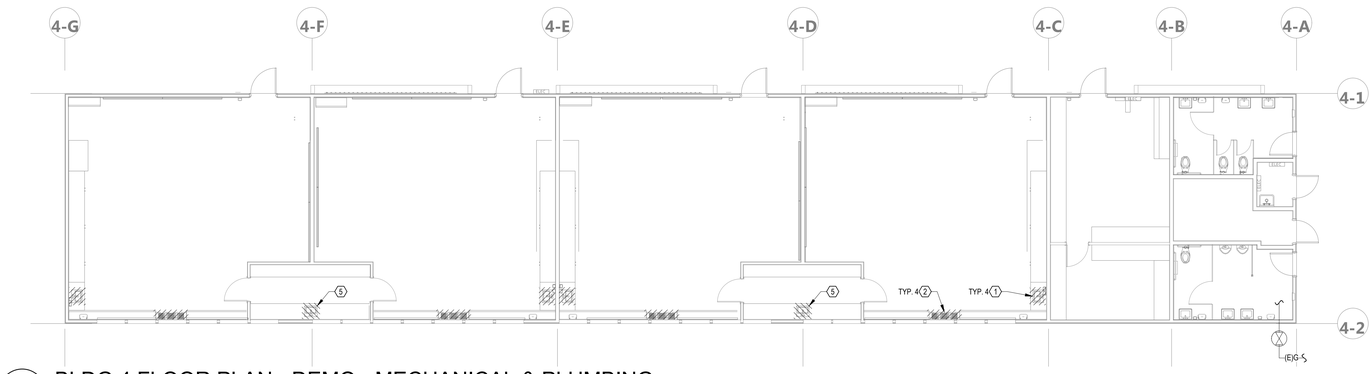
1 2MP-201 BLDG 3 FLOOR PLAN - DEMO - MECHANICAL & PLUMBING

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



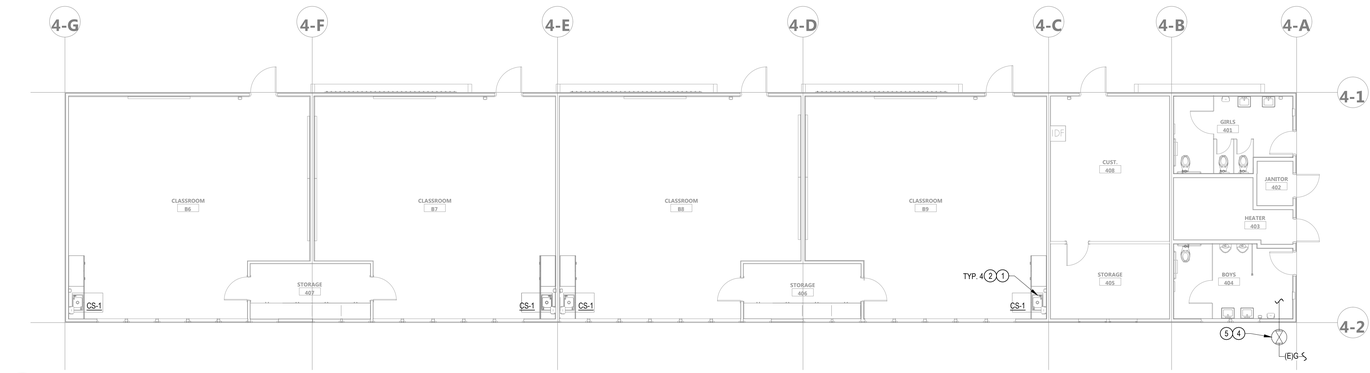
2 2MP-201 BLDG 3 FLOOR PLAN - NEW - MECHANICAL & PLUMBING

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



3 2MP-201 BLDG 4 FLOOR PLAN - DEMO - MECHANICAL & PLUMBING

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



4 2MP-201 BLDG 4 FLOOR PLAN - NEW - MECHANICAL & PLUMBING

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

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
2. COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK, PIPING, AND ALL MECHANICAL AND PLUMBING EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
3. SEE ARCHITECT'S DRAWINGS FOR PATCHING AND REPAIR OF ROOF, WALL, AND FLOOR PENETRATIONS.
4. INFORMATION SHOWN IS BASED ON AVAILABLE AS-BUILTS AND THE LOCATION OF ALL EQUIPMENT, DUCTS, PENETRATIONS, PIPING, AND OTHER PROJECTIONS SHOWN ON THE PLANS IS APPROXIMATE. NOT ALL EXISTING ITEMS ARE IDENTIFIED OR SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS, INCLUDING ALL RELEVANT DIMENSION,S EQUIPMENT COUNTS, AND LOCATIONS PRIOR TO SUBMITTING A BID.
5. SEE PLANS AND SPECIFICATIONS FOR ALL OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK THAT MAY NOT BE SHOWN HERE. COORDINATE WITH GENERAL CONTRACTOR TO CONFIRM ENTIRE SCOPE OF WORK HAS BEEN INCLUDED.

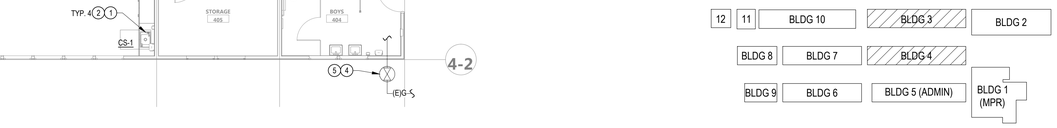
(#) DEMOLITION SHEET NOTES

1. REMOVE (E) SINK, PROTECT (E) UTILITIES IN WALL FOR CONNECTION TO NEW SINK.
2. REMOVE (E) RADIANT HEATER COMPLETE. CAP (E) HYDRONIC PIPING IN WALL OR BELOW FLOOR.
3. REMOVE (E) DRINKING FOUNTAIN COMPLETE. PROTECT (E) UTILITIES IN WALL FOR CONNECTION TO REPLACEMENT DRINKING FOUNTAIN.
4. REMOVE (E) WALL AIR CONDITIONER COMPLETE.
5. REMOVE (E) SINK COMPLETE, CAP (E) UTILITIES IN WALL.

(#) NEW SHEET NOTES

1. CONNECT SINK TO (E) PLUMBING CONNECTIONS, EXTEND PLUMBING AS REQUIRED.
2. CS-1 CLASSROOM SINKS SHALL HAVE NEW PIPES, TRAPS, & FITTINGS FROM THE WALL CONNECTIONS TO THE SINK.
3. CONNECT DRINKING FOUNTAIN TO (E) PLUMBING CONNECTIONS, EXTEND PLUMBING AS REQUIRED.
4. (E) GAS SOV IN (E) VALVE BOX W/ LID LABELED BUILDING GAS SHUT OFF VALVE.
5. INSTALL SIGN MOUNTED ON BUILDING NEARBY LABELED "BUILDING GAS SHUT OFF VALVE IN UNDERGROUND VALVE BOX".

KEY PLAN



AGENCY APPROVAL DSA# 01-121440

196

911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146

CYPRESS Engineering Group
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com

HVAC, Plumbing, Fire Protection
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TEL (415) 466-2997

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San Ramon, CA 94582
TEL (913) 961-1658

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KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MEIN SERTTUNG
No. M31059
EXP. JUNE 30, 2025
MECHANICAL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDGS 3&4 - DEMO & NEW FLOOR PLANS

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

SHEET NO.

2MP-201

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.dwg

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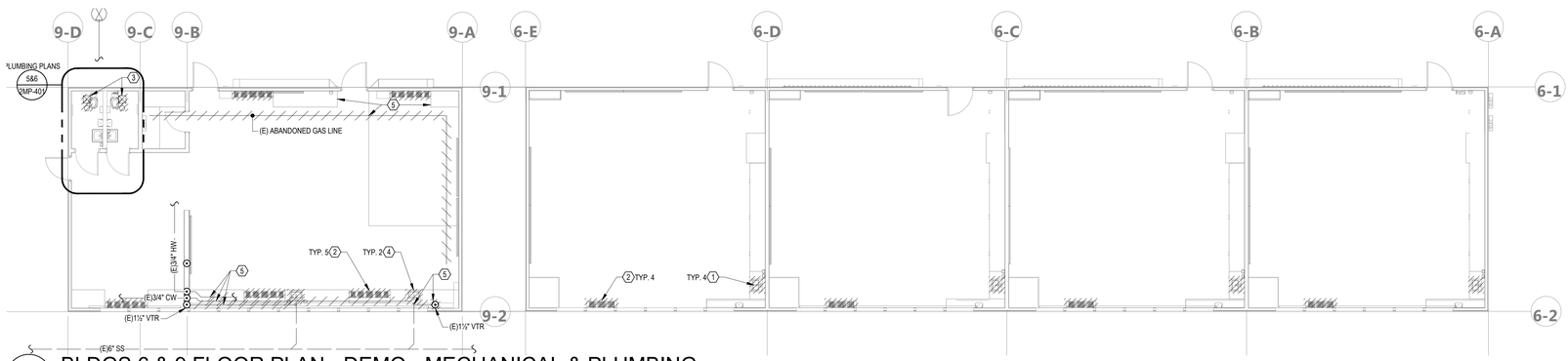
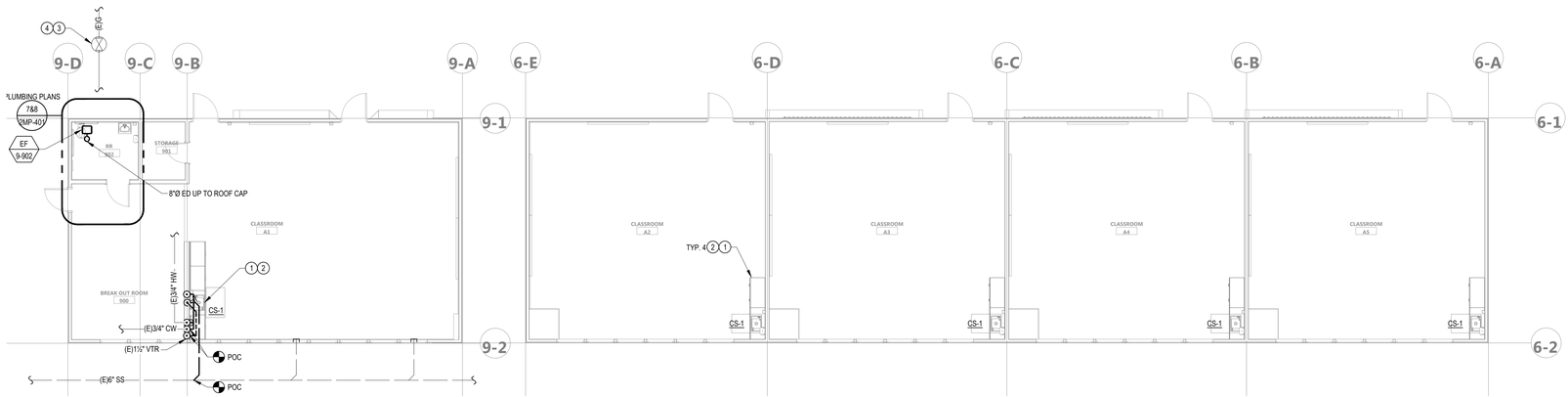


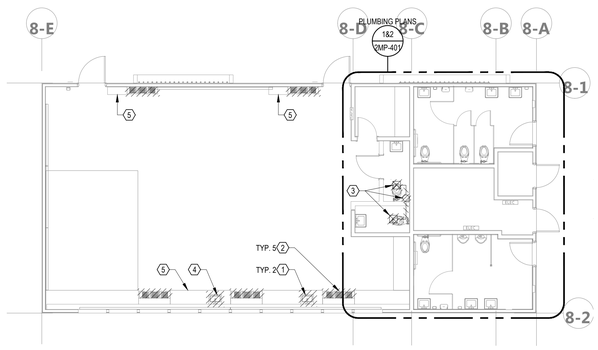
1 2MP-202 BLDGS 6 & 9 FLOOR PLAN - DEMO - MECHANICAL & PLUMBING

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



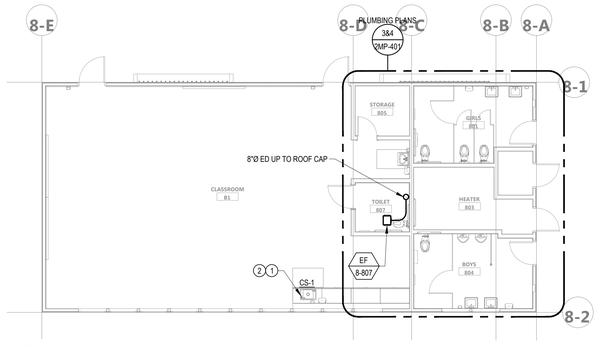
2 2MP-202 BLDGS 6 & 9 FLOOR PLAN - NEW - MECHANICAL & PLUMBING

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



3 2MP-202 BLDG 8 FLOOR PLAN - DEMO - MECHANICAL & PLUMBING

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



4 2MP-202 BLDG 8 FLOOR PLAN - NEW - MECHANICAL & PLUMBING

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

GENERAL NOTES

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(#) DEMOLITION SHEET NOTES

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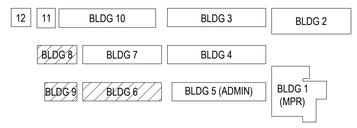
2. REMOVE (E) RADIANT HEATER COMPLETE. CAP (E) HYDRONIC PIPING IN WALL OR BELOW FLOOR. REMOVE ALL HYDRONIC PIPING IN PLUMBING WALLS / SOFFITS THAT ARE BEING REMOVED, REFER TO ARCHITECT DRAWINGS FOR WALL PATCH BACK DETAILS.
3. REMOVE (E) EXHAUST FAN OR GRILLE, (E) ED & ROOF CAP COMPLETE. SEE ARCHITECT DRAWINGS FOR ROOF PATCHING.
4. REMOVE (E) SINK, CAP (E) UTILITIES IN WALL OR BELOW FLOOR.
5. REMOVE UTILITY PIPING IN PLUMBING WALLS / SOFFITS THAT ARE BEING REMOVED. REFER TO ARCHITECT DRAWINGS FOR WALL PATCH BACK DETAILS.

(#) NEW SHEET NOTES

1. CONNECT SINK TO (E) PLUMBING CONNECTIONS, EXTEND PLUMBING AS REQUIRED.
2. CS-1 CLASSROOM SINKS SHALL HAVE NEW PIPES, TRAPS, & FITTINGS FROM THE WALL CONNECTIONS TO THE SINK.
3. (E) GAS SOV IN (E) VALVE BOX W/ LID LABELED BUILDING GAS SHUT OFF VALVE.
4. INSTALL SIGN MOUNTED ON BUILDING NEARBY LABELED "BUILDING GAS SHUT OFF VALVE IN UNDERGROUND VALVE BOX".

KEY PLAN



AGENCY APPROVAL DSA# 01-121440

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911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146

CYPRESS Engineering Group

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8 Harris Court, Suite A8
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cypresseg.com

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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
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Bay Point, CA 94565

SHEET TITLE
BLDGS 6,8,9 - DEMO & NEW FLOOR PLANS

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

SHEET NO.
2MP-202

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.dwg

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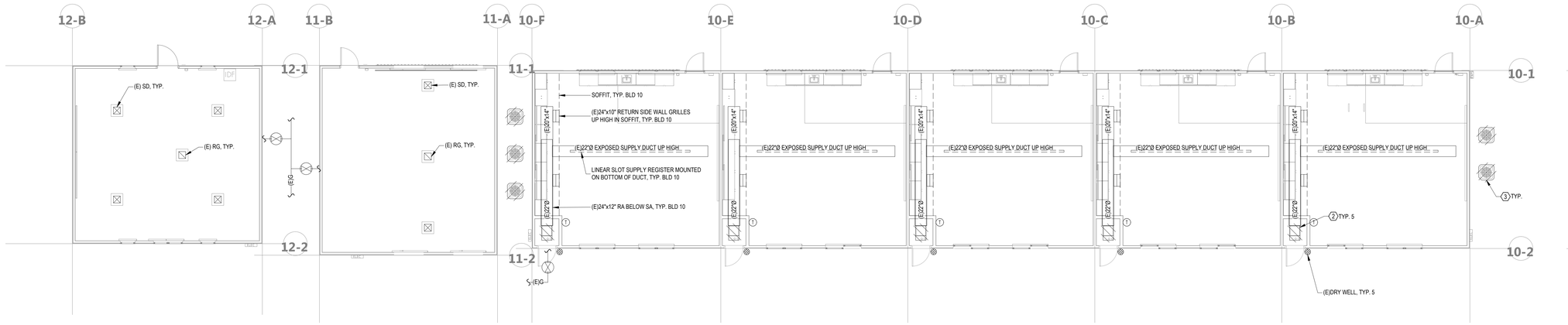
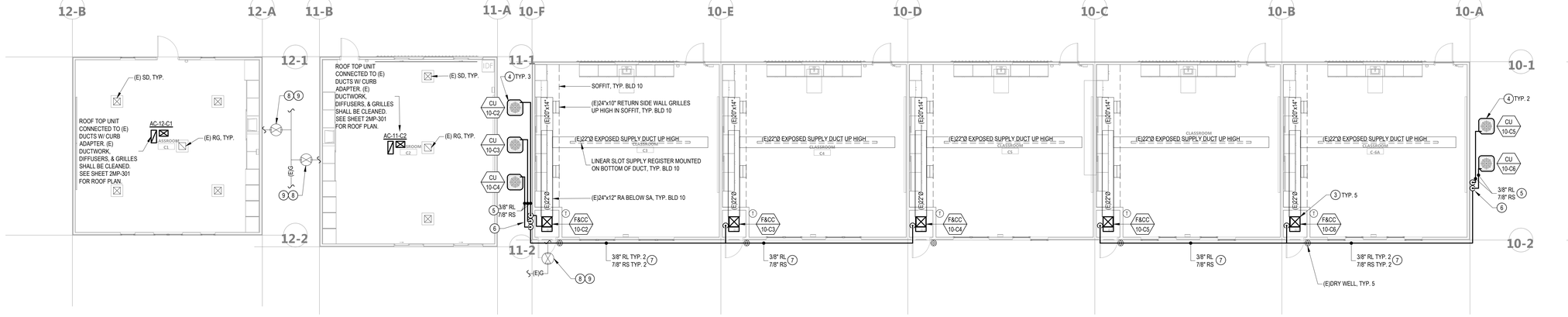


1 / 2MP-203

BLDGS 10, 11, 12 FLOOR PLANS - DEMO - MECHANICAL & PLUMBING

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



2 / 2MP-203

BLDGS 10, 11, 12 FLOOR PLANS - NEW - MECHANICAL & PLUMBING

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

NEW SHEET NOTES

1. NOTE # NOT USED.
2. NOTE # NOT USED.
3. INSTALL FURNACE & COOLING COIL IN (E) MECH. CLOSET W/ (E)RETURN PLENUM. ENSURE CORRECT UNIT ORIENTATION AND CONNECT COOLING COIL TO (E) SUPPLY DUCTWORK. FOR REFERENCE SEE DETAIL 1/2MP-601. RUN REFRIGERANT LINE SETS FROM CONDENSING UNITS TO COOLING COILS. PROVIDE NEW MERV 13 FILTERS.
4. INSTALL CONDENSING UNIT ON (E) HOUSE KEEPING PAD W/ REFRIGERANT LINE SET TO COOLING COIL.
5. HORIZONTAL REFRIGERANT PIPES SUPPORTED TO EXTERIOR WALL, SEE DETAIL 10/2MP-601.
6. VERTICAL REFRIGERANT PIPES SUPPORTED TO EXTERIOR WALL, SEE DETAIL 9/2MP-601.
7. REFRIGERANT PIPES SUPPORTED TO ROOF OVERHANG, SEE DETAIL 8/2MP-601.
8. (E) GAS SOV IN (E) VALVE BOX W/ LID LABELED BUILDING GAS SHUT OFF VALVE.
9. INSTALL SIGN MOUNTED ON BUILDING NEARBY LABELED "BUILDING GAS SHUT OFF VALVE IN UNDERGROUND VALVE BOX".

DEMOLITION SHEET NOTES

1. NOTE # NOT USED.
2. REMOVE (E) FURNACE, COOLING COIL & REFRIGERANT PIPING. (E) DUCTWORK CONNECTED TO THE FURNACE & COOLING COIL TO REMAIN.
3. REMOVE (E) CONDENSING UNIT & REFRIGERANT PIPING COMPLETE.

GENERAL NOTES

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3. SEE ARCHITECT'S DRAWINGS FOR PATCHING AND REPAIR OF ROOF, WALL, AND FLOOR PENETRATIONS.
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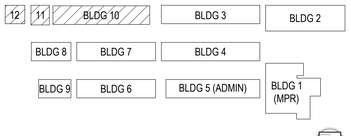

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KMM Services Inc.
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — MATTHEW SERTTAS — No. M31059 — EXP. JUNE 30, 2025 — MECHANICAL — STATE OF CALIFORNIA

REVISIONS

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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
BLDGS 10, 11, 12 - DEMO & NEW FLOOR PLANS
INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

SHEET NO.
2MP-203
DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENTS

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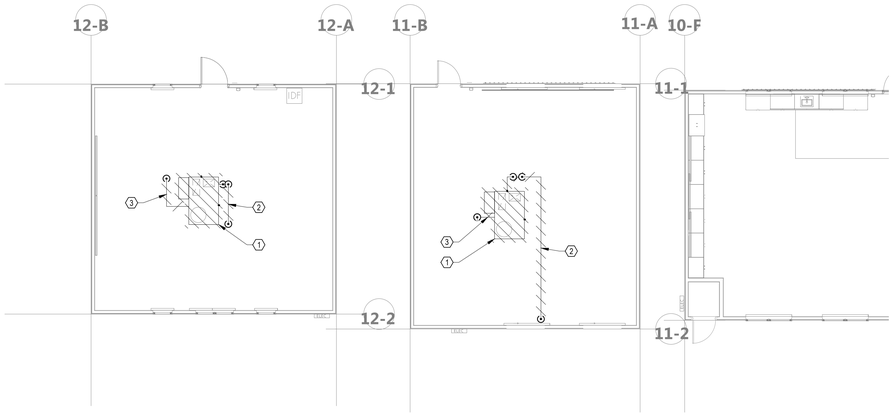
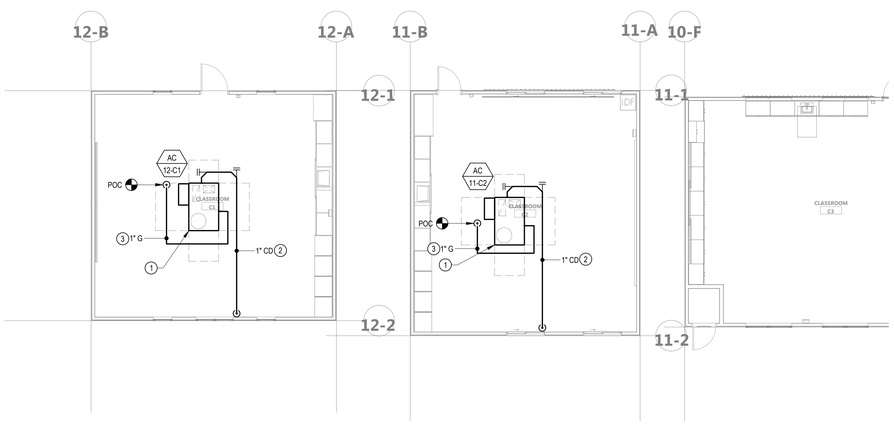


1 / 2MP-301 BLDGS 11 & 12 ROOF PLANS - DEMO - MECHANICAL & PLUMBING

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



2 / 2MP-301 BLDGS 11 & 12 ROOF PLANS - NEW - MECHANICAL & PLUMBING

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

NEW SHEET NOTES

1. INSTALL AC UNIT ON (E) ROOF CURB. ENSURE CORRECT UNIT ORIENTATION AND CONNECT TO (E) SUPPLY AND RETURN DUCTWORK. SEE SCHEDULES FOR REQUIRED CURB ADAPTERS. CONNECT TO (E) TSTAT.
2. INSTALL CD PIPING WITH P-TRAP TO AC UNIT. ROUTE & SLOPE TO NEAREST ROOF DRAIN, ELBOW DOWN, AND SPILL WITH 1" AIR GAP. CONNECT CD PIPING TO AC UNIT PER DETAIL 6/2MP-602. FOR PIPE SUPPORT SEE DETAIL 4/2MP-602. FOR DISCHARGE TO ROOF DRAIN SEE DETAIL 5/2MP-602.
3. INSTALL GAS PIPING WITH SHUTOFF VALVE, DIRT LEG, AND FLEX CONNECTION AT AC UNIT.CONNECT GAS PIPING TO AC UNIT PER DETAIL 6/2MP-602. FOR PIPE SUPPORT SEE DETAIL 4/2MP-602.

DEMOLITION SHEET NOTES

1. REMOVE (E) AC UNIT. (E) ROOF CURB TO REMAIN. PRESERVE ROOF OPENING FOR NEW AC UNIT. (E) DUCTWORK & TSTAT TO REMAIN.
2. REMOVE (E) CD PIPING ON ROOF.
3. SHUT OFF & DISCONNECT (E) GAS FOR EQUIPMENT REMOVAL. REMOVE (E) GAS PIPING BACK TO POC AT ROOF PENETRATION FOR (N) GAS LINE.

GENERAL NOTES

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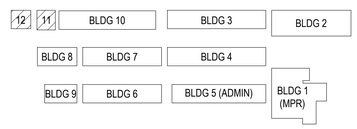
5. SEE PLANS AND SPECIFICATIONS FOR ALL OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK THAT MAY NOT BE SHOWN HERE. COORDINATE WITH GENERAL CONTRACTOR TO CONFIRM ENTIRE SCOPE OF WORK HAS BEEN INCLUDED.
6. CONTRACTOR TO VERIFY ALL EXISTING CURB DIMENSIONS FOR NEW CURB ADAPTERS BEFORE SUBMITTAL PROCESS / ORDERING EQUIPMENT. PROVIDE CURB ADAPTERS FOR NEW EQUIPMENT AS REQUIRED.
7. CHECK THE UNITS FOR HEATING, COOLING, ECONOMIZER, AND CONTINUOUS FAN OPERATION. COORDINATE WITH SCHOOL DISTRICT TO PROGRAM THERMOSTATS FOR OCCUPIED SCHEDULE HOURS.

KEY PLAN



AGENCY APPROVAL DSA# 01-121440

196
911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146
CYPRESS Engineering Group
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com
HVAC, Plumbing, Fire Protection
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San Ramon, CA 94582
TEL (913) 961-1658

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MEIN SERTTUNG
No. M31059
EXP. JUNE 30, 2025
MECHANICAL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
BLDGS 11 & 12 - DEMO & NEW ROOF PLANS

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

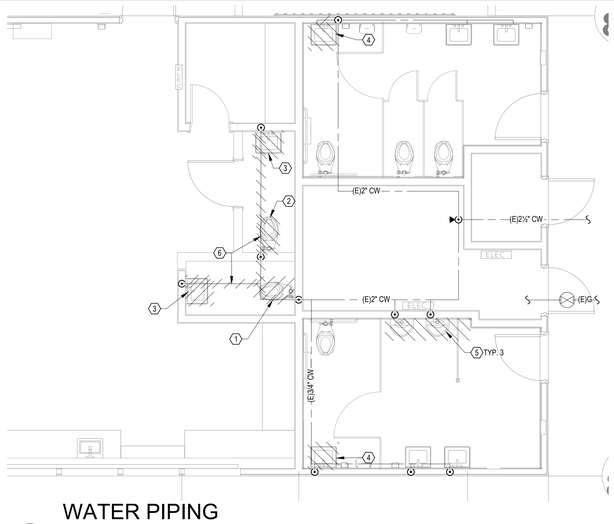
SHEET NO.
2MP-301

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENTS

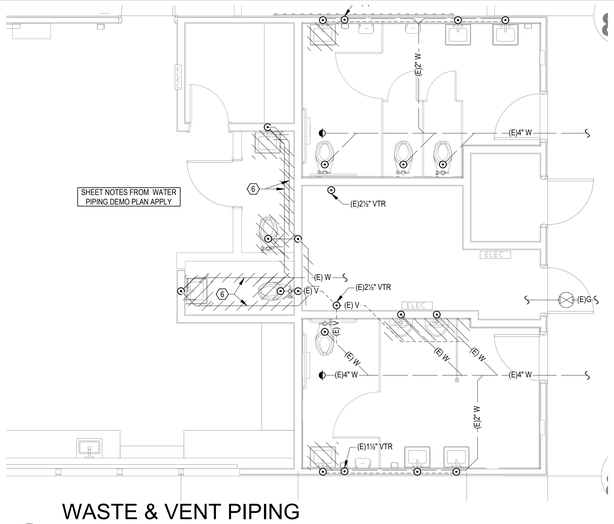
FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.dwg

DATE PLOTTED: 9/24/2024 4:25 PM



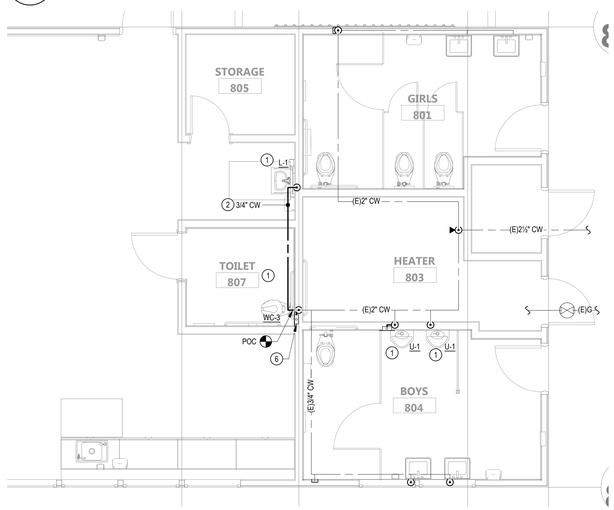
1 2MP-401 WATER PIPING BLDG 8 RESTROOM PARTIAL DEMO PLAN

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



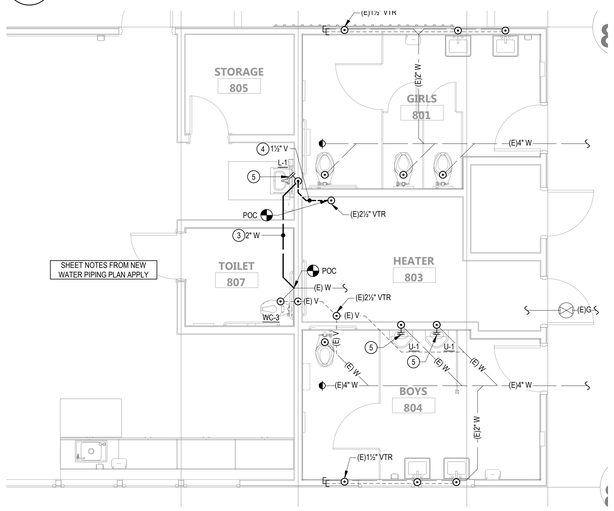
2 2MP-401 WASTE & VENT PIPING BLDG 8 RESTROOM PARTIAL DEMO PLAN

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



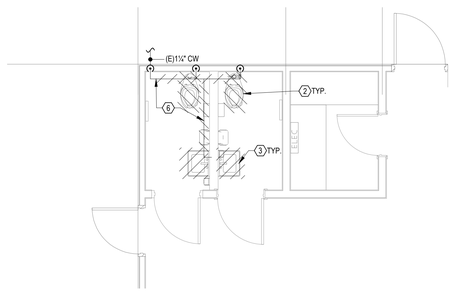
3 2MP-401 WATER PIPING BLDG 8 RESTROOM PARTIAL NEW PLAN

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



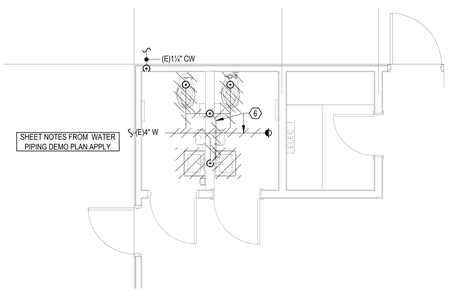
4 2MP-401 WASTE & VENT PIPING BLDG 8 RESTROOM PARTIAL NEW PLAN

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



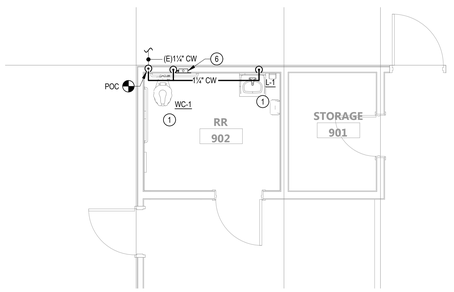
5 2MP-401 WATER PIPING BLDG 9 RESTROOM PARTIAL DEMO PLAN

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



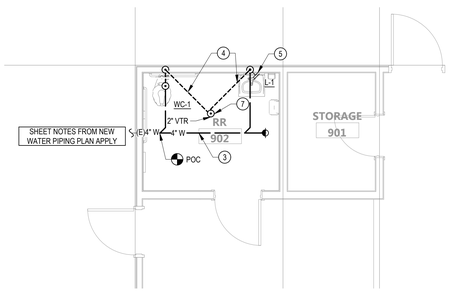
6 2MP-401 WASTE & VENT PIPING BLDG 9 RESTROOM PARTIAL DEMO PLAN

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



7 2MP-401 WATER PIPING BLDG 9 RESTROOM PARTIAL NEW PLAN

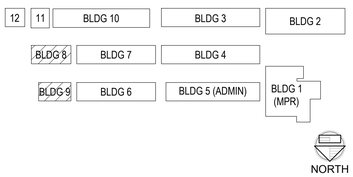
SCALE: 1/4" = 1'-0"



8 2MP-401 WASTE & VENT PIPING BLDG 9 RESTROOM PARTIAL NEW PLAN

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

KEY PLAN



GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
2. COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK, PIPING, AND ALL MECHANICAL AND PLUMBING EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
3. SEE ARCHITECT'S DRAWINGS FOR PATCHING AND REPAIR OF ROOF, WALL, AND FLOOR PENETRATIONS.
4. INFORMATION SHOWN IS BASED ON AVAILABLE AS-BUILTS AND THE LOCATION OF ALL EQUIPMENT, DUCTS, PENETRATIONS, PIPING, AND OTHER PROJECTIONS SHOWN ON THE PLANS IS APPROXIMATE. NOT ALL EXISTING ITEMS ARE IDENTIFIED OR SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS, INCLUDING ALL RELEVANT DIMENSION,S EQUIPMENT COUNTS, AND LOCATIONS PRIOR TO SUBMITTING A BID.
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6. SAW CUT AND TRENCH THE EXISTING RESTROOM FLOORS WITHIN THE RESTROOMS AS REQUIRED TO INSTALL THE NEW WASTE, VENT, TRAP PRIMER LINES BELOW THE SLABS BACK TO THE POC'S. CHIP AND PATCH BACK (E) CONC. CURBS AS REQUIRED FOR (N) WASTE / VENT / TP CONNECTIONS IN (E) WALLS W/ CURBS. TRENCHING SHALL NOT DAMAGE ANY STRUCTURAL MEMBERS INCLUDING BUT NOT LIMITED TO THE SPREAD FOOTINGS, GRADE BEAMS, WALLS, ECT. TRENCHING SHALL NOT UNDERMINE (E) FOOTINGS. REFER TO ARCHITECT PLANS & DETAILS FOR FLOOR PATCHING & REPAIR WORK.
7. EXISTING SLAB SHALL BE DEMOLISHED AS REQUIRED FOR NEW WORK.

(#) DEMOLITION SHEET NOTES

1. REMOVE (E) FLOOR MOUNT WATER CLOSET COMPLETE. CAP UTILITIES AS REQUIRED FOR INSTALLATION OF (N) FIXTURES.
2. REMOVE (E) FLOOR MOUNT WATER CLOSET COMPLETE.
3. REMOVE (E) LAVATORY & SUPPORTS COMPLETE.
4. REMOVE (E) LAVATORY & SUPPORTS COMPLETE. CAP UTILITIES CONCEALED IN WALL.
5. REMOVE (E) URINALS & SUPPORTS COMPLETE. CAP UTILITIES AS REQUIRED FOR INSTALLATION OF (N) FIXTURES.
6. REMOVE (E) UTILITY LINES & BRANCH LINES COMPLETE BACK TO POC. REFER TO NEW PLANS FOR POC'S.

(#) NEW SHEET NOTES

1. INSTALL RESTROOM PLUMBING FIXTURES AND CONNECT TO (E) UTILITY CONNECTIONS. EXTEND (E) UTILITY PIPING AS REQUIRED. INSTALL SUPPORT CARRIERS AS SPECIFIED ON THE PLUMBING FIXTURE SCHEDULE.
2. CW CONCEALED UP HIGH IN CEILING SPACE OR IN WALL TO POC.
3. UNDERGROUND WASTE LINE TO POC.
4. VENT CONCEALED UP HIGH IN CEILING SPACE OR IN WALL TO POC.
5. WALL CLEAN OUT, SEE DETAIL 3/2MP-602.
6. WHA IN WALL ACCESS PANEL, SEE DETAIL 2/2MP-602.
7. VTR SEE DETAIL 1/2MP-602. USE (E) VTR LOCATIONS WHERE POSSIBLE.

AGENCY APPROVAL DSA# 01-121440

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911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146
CYPRESS Engineering Group
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com
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TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MEFIN SERT UYAC
No. M31059
EXP. JUNE 30, 2025
MECHANICAL
STATE OF CALIFORNIA

REVISIONS

#	NO.	DATE	DESCRIPTION

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
BLDGS 8, & 9 - DEMO & NEW RESTROOM PLANS

INCREMENT: INC.2

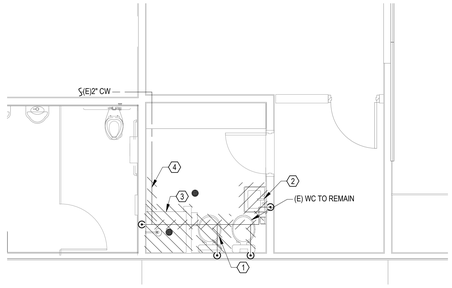
DRAWN BY: RR JOB NUMBER: 23118.01

SHEET NO.
2MP-401

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENTS

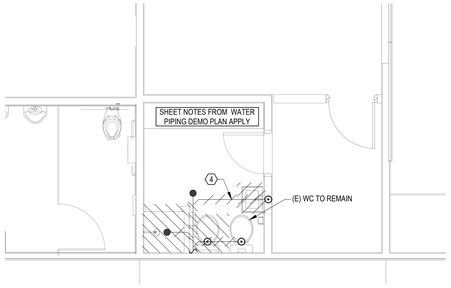
FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.dwg
DATE PLOTTED: 9/24/2024 4:28 PM



1 2MP-402

WATER PIPING
BLDG 3 RESTROOM 305 PARTIAL DEMO PLAN

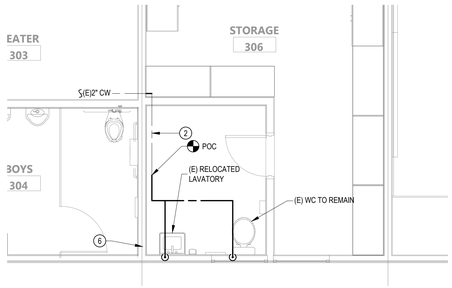
SCALE: 1/4" = 1'-0"



2 2MP-402

WASTE & VENT PIPING
BLDG 3 RESTROOM 305 PARTIAL DEMO PLAN

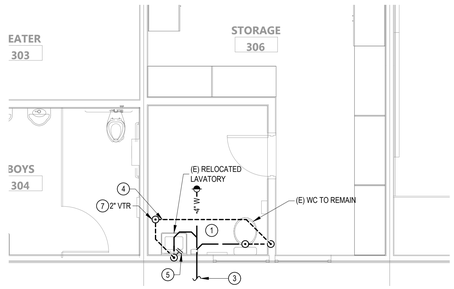
SCALE: 1/4" = 1'-0"



3 2MP-402

WATER PIPING
BLDG 3 RESTROOM 305 PARTIAL NEW PLAN

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



4 2MP-402

WASTE & VENT PIPING
BLDG 3 RESTROOM 305 PARTIAL NEW PLAN

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

GENERAL NOTES

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3. SEE ARCHITECT'S DRAWINGS FOR PATCHING AND REPAIR OF ROOF, WALL, AND FLOOR PENETRATIONS.
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6. SAW CUT AND TRENCH THE EXISTING RESTROOM FLOORS WITHIN THE RESTROOMS AS REQUIRED TO INSTALL THE NEW WASTE, VENT, TRAP PRIMER LINES BELOW THE SLABS BACK TO THE POC'S. CHIP AND PATCH BACK (E) CONC. CURBS AS REQUIRED FOR (N) WASTE / VENT / TP CONNECTIONS IN (E) WALLS W/ CURBS. TRENCHING SHALL NOT DAMAGE ANY STRUCTURAL MEMBERS INCLUDING BUT NOT LIMITED TO THE SPREAD FOOTINGS, GRADE BEAMS, WALLS, ECT. TRENCHING SHALL NOT UNDERMINE (E) FOOTINGS. REFER TO ARCHITECT PLANS & DETAILS FOR FLOOR PATCHING & REPAIR WORK.
7. EXISTING SLAB SHALL BE DEMOLISHED AS REQUIRED FOR NEW WORK.

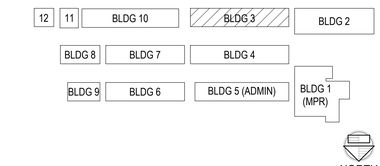
(#) DEMOLITION SHEET NOTES

1. REMOVE (E) FLOOR MOUNT WATER CLOSET COMPLETE. CAP UTILITIES AS REQUIRED FOR INSTALLATION OF (N) FIXTURES.
2. REMOVE (E) LAVATORY & SUPPORTS TO BE RELOCATED. CAP UTILITIES AS REQUIRED FOR INSTALLATION OF (N) FIXTURES.
3. REMOVE (E) SHOWER COMPLETE. CAP UTILITIES CONCEALED IN WALL & BELOW FLOOR.
4. REMOVE (E) UTILITY LINES & BRANCH LINES COMPLETE BACK TO POC. REFER TO NEW PLANS FOR POC'S.

(#) NEW SHEET NOTES

1. INSTALL RESTROOM PLUMBING FIXTURES AND CONNECT TO (E) UTILITY CONNECTIONS. EXTEND (E) UTILITY PIPING AS REQUIRED. INSTALL SUPPORT CARRIERS AS SPECIFIED ON THE PLUMBING FIXTURE SCHEDULE.
2. CW CONCEALED UP HIGH IN CEILING SPACE OR IN WALL TO POC.
3. UNDERGROUND WASTE TO (E) 4" WASTE SITE MAIN.
4. VENT CONCEALED UP HIGH IN CEILING SPACE OR IN WALL TO POC.
5. WALL CLEAN OUT, SEE DETAIL 3/2MP-602.
6. WHA IN WALL ACCESS PANEL, SEE DETAIL 2/2MP-602.
7. VTR SEE DETAIL 1/2MP-602. USE (E) VTR LOCATIONS WHERE POSSIBLE.

KEY PLAN



AGENCY APPROVAL DSA# 01-121440

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911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146

CYPRESS Engineering Group

831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
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1936 Carlotta Dr. Concord
Concord, CA 94519

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611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
BLDGS 3 - DEMO & NEW RESTROOM PLANS

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

SHEET NO.
2MP-402

DATE: SEPTEMBER 24, 2024

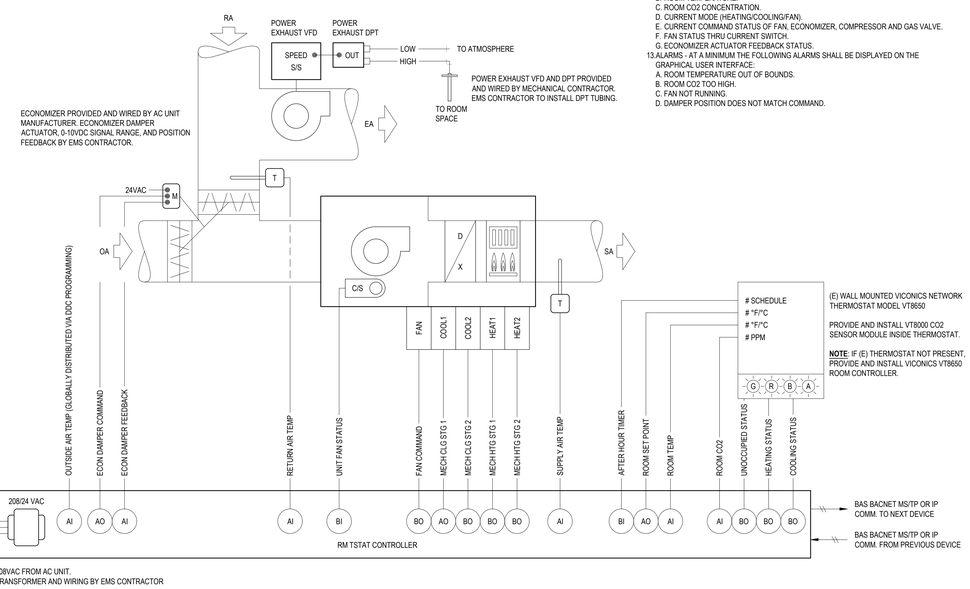
CONSTRUCTION DOCUMENTS

FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.dwg

DATE PLOTTED: 9/24/2024 4:26 PM

SEQUENCE OF OPERATION

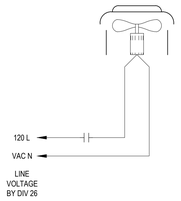
1. SYSTEM OVERVIEW
   A. AC UNIT WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED EMS (ENERGY MANAGEMENT SYSTEM) UNITARY CONTROLLER.
   B. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED ELECTRONIC ZONE TEMPERATURE SENSOR WITH INTEGRAL CO2 SENSOR.
   C. ELECTRONIC ZONE TEMPERATURE SENSOR SHALL HAVE A TOUCH SCREEN LCD INTERFACE WHICH INCLUDES: 1) PUSHBUTTONS FOR WARMER/COOLER SETPOINT CONTROL; 2) VISUAL DISPLAY OF ROOM TEMPERATURE, ROOM CO2 AND AMBIENT OSA TEMPERATURE; AND 3) PUSHBUTTON AFTER-HOURS OVERRIDE TIMER CONTROL, WITH USER ADJUSTABLE DURATION. THE AFTER-HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED FROM THE FRONT-END.
2. UNIT FAN OPERATION
   A. WHEN THE ZONE IS IN OCCUPIED MODE OR IN AFTER-HOURS MODE, THE FAN SHALL RUN CONTINUOUSLY.
   B. DURING THE UNOCCUPIED MODE AS DETERMINED BY EMS TIME SCHEDULE, THE UNIT FAN CYCLES WITH DEMAND AND THE TEMPERATURE IS CONTROLLED BY THE UNOCCUPIED SPACE TEMPERATURE HEATING AND COOLING SETPOINTS.
3. MINIMUM OUTDOOR AIR VENTILATION
   A. WITH REFERENCE TO MECHANICAL EQUIPMENT SCHEDULE OSA DESIGN REQUIREMENTS, THE AIR BALANCER SHALL PROVIDE THE EMS SYSTEM WITH INFORMATION FOR TWO (2) SEPARATE MINIMUM OUTDOOR AIR (DESIGN OA CFM) DAMPER SETPOINTS: ONE FOR LOW FAN SPEED AND ANOTHER FOR HIGH FAN SPEED. DESIGN OSA CFM IS LISTED ON EQUIPMENT SCHEDULE.
4. DEMAND CONTROL VENTILATION
   A. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED CO2 SENSOR TO MONITOR ZONE CO2 CONCENTRATION.
   B. DURING OCCUPIED MODE A PROPORTIONAL CONTROL LOOP SHALL BE USED TO MAINTAIN THE CO2 CONCENTRATION BELOW 1,000 PPM (ADJUSTABLE). AS CO2 CONCENTRATION VARIES BETWEEN 800 PPM (ADJUSTABLE) AND 1,000 PPM (ADJUSTABLE), THE OUTSIDE AIR DAMPER SHALL MODULATE BETWEEN MINIMUM OSA SETPOINT AND FULLY OPEN.
   C. SHOULD THE CO2 SENSOR FAIL TO OPERATE WITHIN ACCEPTABLE RANGE, THE OUTSIDE AIR DAMPER SHALL BE SET TO 30% (ADJUSTABLE) MORE THAN MINIMUM OUTSIDE AIR SETPOINT.
5. AUTOMATIC DEMAND SHED CONTROLS
   A. EMS SHALL BE PROGRAMMED WITH CAPABILITY TO IMPLEMENT CENTRALIZED DEMAND SHED FOR ALL NON-CRITICAL ZONES. CRITICAL ZONES SHALL NOT BE IMPACTED BY DEMAND SHED CONSERVATION MEASURES.
   B. UPON THE ACTIVATION OF A DEMAND SHED COMMAND FROM THE EMS SERVER, THE THERMOSTAT'S OCCUPIED COOLING AND HEATING SETPOINTS SHALL BE OFFSET UP AND DOWN BY 4°F OR MORE.
   C. IN ADDITION TO THE IMPLEMENTATION OF AUTOMATIC DEMAND SHED CONTROL STRATEGIES, THE EMS SHALL ALLOW FOR SYSTEM-WIDE GLOBAL ADJUSTMENT TO ALL COOLING AND HEATING SETPOINTS FROM MAIN EMS SERVER APART FROM DEMAND SHED CONSERVATION MEASURES AND SHALL ALLOW FOR ALL GLOBAL SETPOINT CHANGE COMMANDS TO BE DEACTIVATED.
6. ZONE PRE-OCCUPANCY PURGE
   A. THE EMS SHALL SCHEDULE THE ZONE TO BE IN OCCUPIED MODE ONE HOUR PRIOR TO THE ACTUAL TIME OF ANTICIPATED OCCUPANCY.
7. ECONOMIZER CONTROL
   A. EMS UNITARY CONTROLLER SHALL BE DIRECTLY CONNECTED TO DISCHARGE AIR AND RETURN AIR TEMPERATURE SENSORS. GLOBAL DDC PROGRAMMING SHALL BE USED TO BROADCAST CENTRALIZED AMBIENT OUTSIDE AIR TEMPERATURE.
   B. EMS UNITARY CONTROLLER SHALL ALSO BE DIRECTLY CONNECTED TO ECONOMIZER (OUTSIDE/RETURN AIR) DAMPER ACTUATOR, INCLUDING POSITION FEEDBACK SIGNAL.
   C. SEE MINIMUM OUTDOOR AIR VENTILATION FOR OUTSIDE AIR DAMPER MINIMUM CFM SETPOINT.
   D. THE EMS UNITARY CONTROLLER SHALL CONTINUOUSLY COMPARE THE CURRENT OSA TEMPERATURE TO THE ESTABLISHED AIR ECONOMIZER HIGH LIMIT SHUT OFF (ECON LOCK OUT) TEMPERATURE SET POINT (ADJUSTABLE) AND RETURN AIR TEMPERATURE.
   E. WHEN CURRENT OSA TEMP IS LESS THAN OR EQUAL TO ECON LOCK OUT TEMP AND THE RETURN AIR TEMPERATURE, EMS UNITARY CONTROLLER SHALL USE THE OUTSIDE AIR FOR FREE COOLING.
   F. WHEN THE OUTDOOR AIR DAMPER IS OPEN 100% FOR MORE THAN 5 MINUTES (ADJUSTABLE) AND THE NEED-COOLING SIGNAL CONTINUES TO INCREASE OR REACHES A MAXIMUM OF 100%, MECHANICAL COOLING WILL BE ACTIVATED.
   G. THE ECONOMIZER WILL REMAIN IN USE DURING MECHANICAL COOLING AS LONG AS DISCHARGE AIR TEMPERATURE REMAINS ABOVE 55°F (ADJUSTABLE) AND CURRENT OSA TEMP IS LESS THAN ECON LOCK OUT TEMP AND RETURN AIR TEMP.
   H. WHEN OSA TEMP IS ABOVE ECON LOCK OUT TEMP OR RETURN AIR TEMP, ECONOMIZER WILL BE DEACTIVATED AND ECONOMIZER SHALL BE COMMANDED TO MINIMUM CFM SETPOINT.
   I. ECONOMIZER WILL BE COMMANDED TO MINIMUM CFM SETPOINT WHEN UNIT IS IN HEATING MODE.
   J. WHEN UNIT FAN IS NOT OPERATING, OUTSIDE AIR DAMPER SHALL BE COMMANDED CLOSED.
   K. NOTE: ALL POWER EXHAUST FAN OPERATIONS SHALL BE CONTROLLED BY SEPARATE NON-EMS EXTERNAL DEVICES AS PROVIDED BY MANUFACTURER.
   L. POWER EXHAUST (PE) SHALL MONITOR BUILDING PRESSURE INSIDE ROOM.
   M. PE FAN SHALL MODULATE TO MAINTAIN ROOM PRESSURE SETPOINT OF 0.03" (ADJ.).
8. HEATING OPERATION
   A. THE CONTROLLER COMPARES THE HEATING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-HEATING CONTROL SIGNAL TO STAGE A GAS REGULATING VALVE ON THE UNIT.
   B. ECONOMIZER SHALL BE COMMANDED TO MINIMUM CFM SETPOINT AND MECHANICAL COOLING SHALL BE LOCKED OUT DURING HEATING MODE.
9. COOLING OPERATION
   A. THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-COOLING SIGNAL.
   B. THE FIRST STAGE OF COOLING WILL ENABLE THE ECONOMIZER TO PROVIDE FREE COOLING FOR AS LONG AS POSSIBLE.
   C. THE SECOND STAGE WILL ENABLE THE COMPRESSOR(S).
   D. MECHANICAL HEATING SHALL BE LOCKED OUT DURING COOLING MODE.
10. FAULT DETECTION DIAGNOSTICS
   A. THE EMS DDC CONTROLLER SHALL MONITOR FAULT STATUS OF THE FOLLOWING FAULT DETECTION DIAGNOSTIC CONDITIONS AND BROADCAST RESULTS VIA EMS NETWORK.
   B. UNIT NOT ECONOMIZING WHEN ENABLED - IF ECONOMIZER DAMPER ACTUATOR FEEDBACK STATUS DOES NOT MATCH THE COMMANDED ECONOMIZER SETPOINT WHEN THE ECONOMIZER IS ENABLED FOR MORE THAN 3 MINUTES (ADJUSTABLE), AN ALARM SHALL BE GENERATED AND BROADCAST.
   C. UNIT ECONOMIZING WHEN DISABLED - IF ECONOMIZER DAMPER ACTUATOR FEEDBACK STATUS INDICATES THAT THE ECONOMIZER DAMPER IS OPEN BEYOND THE MIN CFM SETPOINT WHEN THE ECONOMIZER IS NOT ENABLED FOR MORE THAN 3 MINUTES (ADJUSTABLE), AN ALARM SHALL BE GENERATED AND BROADCAST.
   D. DAMPER MODULATION FAULT - IF ECONOMIZER DAMPER ACTUATOR FEEDBACK PERCENT DOES NOT MATCH THE COMMANDED ECONOMIZER DAMPER PERCENT FOR MORE THAN 3 MINUTES (ADJUSTABLE), AN ALARM SHALL BE GENERATED AND BROADCAST.
   E. EXCESS OUTDOOR AIR - IF ECONOMIZER DAMPER ACTUATOR FEEDBACK STATUS INDICATES THAT THE ECONOMIZER DAMPER IS OPEN BEYOND MIN CFM SETPOINT IN HEATING MODE, AN ALARM SHALL BE GENERATED AND BROADCAST.
11. SETPOINTS
   A. OCCUPIED HOURS SETPOINTS SHALL BE 68°F TO 74°F. (USER ADJUSTABLE AT THERMOSTAT WITHIN THIS RANGE).
   B. UNOCCUPIED HOURS SETPOINTS SHALL BE 60°F HEATING AND 90°F COOLING.
   C. DEADBAND SHALL BE 2°F.
12. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED AND DISPLAYED AT BMS OPERATOR WORKSTATION/GRAPHICAL USER INTERFACE:
   A. SUPPLY, RETURN AND OUTSIDE AIR TEMPERATURES.
   B. ROOM TEMPERATURE.
   C. ROOM CO2 CONCENTRATION.
   D. CURRENT MODE (HEATING/COOLING/FAN).
   E. CURRENT COMMAND STATUS OF FAN, ECONOMIZER, COMPRESSOR AND GAS VALVE.
   F. FAN STATUS THRU CURRENT SWITCH.
   G. ECONOMIZER ACTUATOR FEEDBACK STATUS.
13. ALARMS - AT A MINIMUM THE FOLLOWING ALARMS SHALL BE DISPLAYED ON THE GRAPHICAL USER INTERFACE:
   A. ROOM TEMPERATURE OUT OF BOUNDS.
   B. ROOM CO2 TOO HIGH.
   C. FAN NOT RUNNING.
   D. DAMPER POSITION DOES NOT MATCH COMMAND.



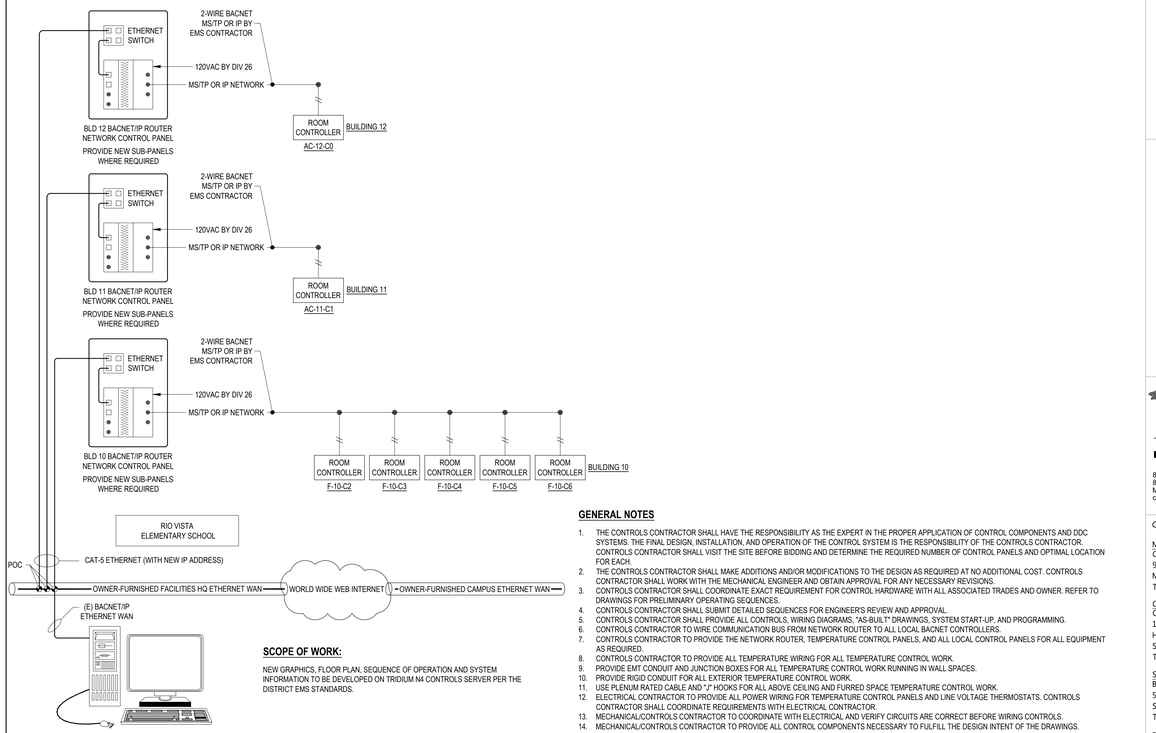
3 PACKAGED AC UNIT CONTROL SCHEMATIC

SEQUENCE OF OPERATION

1. THE EXHAUST FAN SHALL BE HARD WIRED WITH THE ROOM LIGHTS AND OPERATE DURING NORMAL BUILDING OCCUPANCY HOURS.



4 EXHAUST FAN CONTROL SCHEMATIC



1 EMS SYSTEM ARCHITECTURE

SCOPE OF WORK:

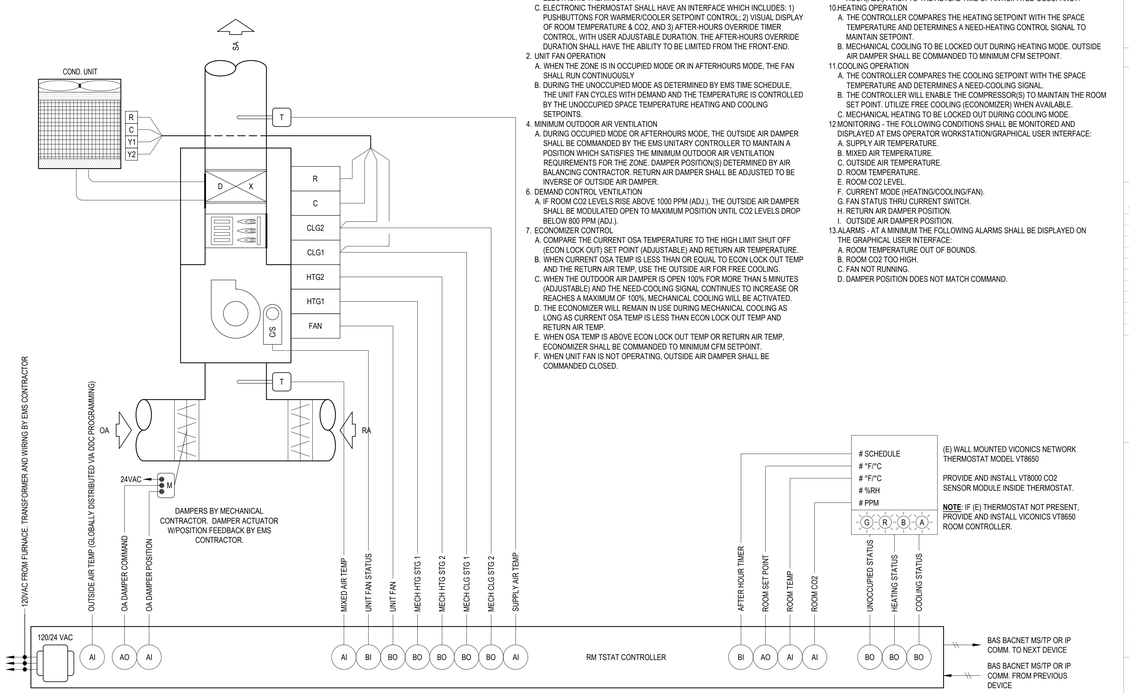
NEW GRAPHICS, FLOOR PLAN, SEQUENCE OF OPERATION AND SYSTEM INFORMATION TO BE DEVELOPED ON TRIDIUM N4 CONTROLS SERVER PER THE DISTRICT EMS STANDARDS.

GENERAL NOTES

1. THE CONTROLS CONTRACTOR SHALL HAVE THE RESPONSIBILITY AS THE EXPERT IN THE PROPER APPLICATION OF CONTROL COMPONENTS AND DDC SYSTEMS. THE FINAL DESIGN, INSTALLATION, AND OPERATION OF THE CONTROL SYSTEM IS THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR. CONTROLS CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING AND DETERMINE THE REQUIRED NUMBER OF CONTROL PANELS AND OPTIMAL LOCATION FOR EACH.
2. THE CONTROLS CONTRACTOR SHALL MAKE ADDITIONS AND/OR MODIFICATIONS TO THE DESIGN AS REQUIRED AT NO ADDITIONAL COST. CONTROLS CONTRACTOR SHALL WORK WITH THE MECHANICAL ENGINEER AND OBTAIN APPROVAL FOR ANY NECESSARY REVISIONS.
3. CONTROLS CONTRACTOR SHALL COORDINATE EXACT REQUIREMENT FOR CONTROL HARDWARE WITH ALL ASSOCIATED TRADES AND OWNER. REFER TO DRAWINGS FOR PRELIMINARY OPERATING SEQUENCES.
4. CONTROLS CONTRACTOR SHALL SUBMIT DETAILED SEQUENCES FOR ENGINEER'S REVIEW AND APPROVAL.
5. CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROLS, WIRING DIAGRAMS, "AS-BUILT" DRAWINGS, SYSTEM START-UP, AND PROGRAMMING.
6. CONTROLS CONTRACTOR TO WIRE COMMUNICATION BUS FROM NETWORK ROUTER TO ALL LOCAL BACNET CONTROLLERS.
7. CONTROLS CONTRACTOR TO PROVIDE THE NETWORK ROUTER, TEMPERATURE CONTROL PANELS, AND ALL LOCAL CONTROL PANELS FOR ALL EQUIPMENT AS REQUIRED.
8. CONTROLS CONTRACTOR TO PROVIDE ALL TEMPERATURE WIRING FOR ALL TEMPERATURE CONTROL WORK.
9. PROVIDE EMT CONDUIT AND JUNCTION BOXES FOR ALL TEMPERATURE CONTROL WORK RUNNING IN WALL SPACES.
10. PROVIDE RIGID CONDUIT FOR ALL EXTERIOR TEMPERATURE CONTROL WORK.
11. USE PLENUM RATED CABLE AND "J" HOOKS FOR ALL ABOVE CEILING AND FURRED SPACE TEMPERATURE CONTROL WORK.
12. ELECTRICAL CONTRACTOR TO PROVIDE ALL POWER WIRING FOR TEMPERATURE CONTROL PANELS AND LINE VOLTAGE THERMOSTATS. CONTROLS CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
13. MECHANICAL/CONTROLS CONTRACTOR TO COORDINATE WITH ELECTRICAL AND VERIFY CIRCUITS ARE CORRECT BEFORE WIRING CONTROLS.
14. MECHANICAL/CONTROLS CONTRACTOR TO PROVIDE ALL CONTROL COMPONENTS NECESSARY TO FULFILL THE DESIGN INTENT OF THE DRAWINGS.

SEQUENCE OF OPERATION

1. SYSTEM OVERVIEW
   A. EACH FURNACE / CONDENSING UNIT UNIT WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED EMS (ENERGY MANAGEMENT SYSTEM) UNITARY CONTROLLER.
   B. EMS UNITARY CONTROLLER WILL BE CONNECTED TO A WALL MOUNTED ELECTRONIC THERMOSTAT.
   C. ELECTRONIC THERMOSTAT SHALL HAVE AN INTERFACE WHICH INCLUDES: 1) PUSHBUTTONS FOR WARMER/COOLER SETPOINT CONTROL; 2) VISUAL DISPLAY OF ROOM TEMPERATURE & CO2, AND 3) AFTER-HOURS OVERRIDE TIMER CONTROL, WITH USER ADJUSTABLE DURATION. THE AFTER-HOURS OVERRIDE DURATION SHALL HAVE THE ABILITY TO BE LIMITED FROM THE FRONT-END.
2. UNIT FAN OPERATION
   A. WHEN THE ZONE IS IN OCCUPIED MODE OR IN AFTERHOURS MODE, THE FAN SHALL RUN CONTINUOUSLY.
   B. DURING THE UNOCCUPIED MODE AS DETERMINED BY EMS TIME SCHEDULE, THE UNIT FAN CYCLES WITH DEMAND AND THE TEMPERATURE IS CONTROLLED BY THE UNOCCUPIED SPACE TEMPERATURE HEATING AND COOLING SETPOINTS.
4. MINIMUM OUTDOOR AIR VENTILATION
   A. DURING OCCUPIED MODE OR AFTERHOURS MODE, THE OUTSIDE AIR DAMPER SHALL BE COMMANDED BY THE EMS UNITARY CONTROLLER TO MAINTAIN A POSITION WHICH SATISFIES THE MINIMUM OUTDOOR AIR VENTILATION REQUIREMENTS FOR THE ZONE. DAMPER POSITION(S) DETERMINED BY AIR BALANCING CONTRACTOR. RETURN AIR DAMPER SHALL BE ADJUSTED TO BE INVERSE OF OUTSIDE AIR DAMPER.
6. DEMAND CONTROL VENTILATION
   A. IF ROOM CO2 LEVELS RISE ABOVE 1000 PPM (ADJ.), THE OUTSIDE AIR DAMPER SHALL BE MODULATED OPEN TO MAXIMUM POSITION UNTIL CO2 LEVELS DROP BELOW 800 PPM (ADJ.).
7. ECONOMIZER CONTROL
   A. COMPARE THE CURRENT OSA TEMPERATURE TO THE HIGH LIMIT SHUT OFF (ECON LOCK OUT) SET POINT (ADJUSTABLE) AND RETURN AIR TEMPERATURE.
   B. WHEN CURRENT OSA TEMP IS LESS THAN OR EQUAL TO ECON LOCK OUT TEMP AND THE RETURN AIR TEMP, USE THE OUTSIDE AIR FOR FREE COOLING.
   C. WHEN THE OUTDOOR AIR DAMPER IS OPEN 100% FOR MORE THAN 5 MINUTES (ADJUSTABLE) AND THE NEED-COOLING SIGNAL CONTINUES TO INCREASE OR REACHES A MAXIMUM OF 100%, MECHANICAL COOLING WILL BE ACTIVATED.
   D. THE ECONOMIZER WILL REMAIN IN USE DURING MECHANICAL COOLING AS LONG AS CURRENT OSA TEMP IS LESS THAN ECON LOCK OUT TEMP AND RETURN AIR TEMP.
   E. WHEN OSA TEMP IS ABOVE ECON LOCK OUT TEMP OR RETURN AIR TEMP, ECONOMIZER SHALL BE COMMANDED TO MINIMUM CFM SETPOINT.
   F. WHEN UNIT FAN IS NOT OPERATING, OUTSIDE AIR DAMPER SHALL BE COMMANDED CLOSED.
8. AUTOMATIC DEMAND REDUCTION CONTROLS
   A. EMS SHALL BE PROGRAMMED WITH CAPABILITY TO IMPLEMENT CENTRALIZED DEMAND SHED FOR ALL NON-CRITICAL ZONES UPON CALL FOR AUTOMATIC DEMAND REDUCTION. CRITICAL ZONES SHALL NOT BE IMPACTED BY DEMAND SHED CONSERVATION MEASURES.
9. ZONE PRE-OCCUPANCY PURGE
   A. THE EMS SHALL SCHEDULE THE ZONE TO BE IN OCCUPIED MODE ONE HOUR(ADJ.) PRIOR TO THE ACTUAL TIME OF ANTICIPATED OCCUPANCY.
10. HEATING OPERATION
   A. THE CONTROLLER COMPARES THE HEATING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-HEATING CONTROL SIGNAL TO MAINTAIN SETPOINT.
   B. MECHANICAL COOLING TO BE LOCKED OUT DURING HEATING MODE. OUTSIDE AIR DAMPER SHALL BE COMMANDED TO MINIMUM CFM SETPOINT.
11. COOLING OPERATION
   A. THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-COOLING SIGNAL.
   B. THE CONTROLLER WILL ENABLE THE COMPRESSOR(S) TO MAINTAIN THE ROOM SET POINT. UTILIZE FREE COOLING (ECONOMIZER) WHEN AVAILABLE.
   C. MECHANICAL HEATING TO BE LOCKED OUT DURING COOLING MODE.
12. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED AND DISPLAYED AT EMS OPERATOR WORKSTATION/GRAPHICAL USER INTERFACE:
   A. SUPPLY AIR TEMPERATURE.
   B. MIXED AIR TEMPERATURE.
   C. OUTSIDE AIR TEMPERATURE.
   D. ROOM TEMPERATURE.
   E. ROOM CO2 LEVEL.
   F. CURRENT MODE (HEATING/COOLING/FAN).
   G. FAN STATUS THRU CURRENT SWITCH.
   H. RETURN AIR DAMPER POSITION.
   I. OUTSIDE AIR DAMPER POSITION.
13. ALARMS - AT A MINIMUM THE FOLLOWING ALARMS SHALL BE DISPLAYED ON THE GRAPHICAL USER INTERFACE:
   A. ROOM TEMPERATURE OUT OF BOUNDS.
   B. ROOM CO2 TOO HIGH.
   C. FAN NOT RUNNING.
   D. DAMPER POSITION DOES NOT MATCH COMMAND.



2 FURNACE / CONDENSING UNIT CONTROL SCHEMATIC

AGENCY APPROVAL DSA# 01-121440

911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146

CYPRESS Engineering Group
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com

HVAC, Plumbing, Fire Protection
Building Commissioning
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CONSULTANTS

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
9 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — INSERT TURC — No. M31059 — EXP. JUNE 30, 2025 — MECHANICAL — STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
CONTROLS - MECHANICAL

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

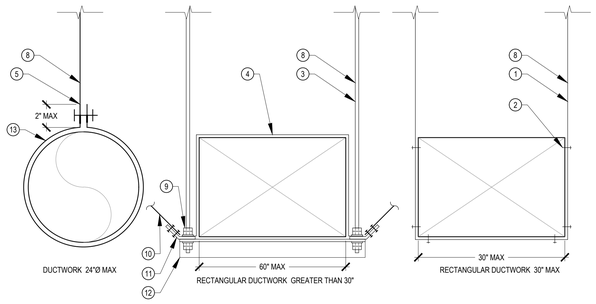
SHEET NO.
2MP-501

DATE: SEPTEMBER 24, 2024

FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.dwg

DATE PLOTTED: 9/24/2024 4:26 PM

CONSTRUCTION DOCUMENTS

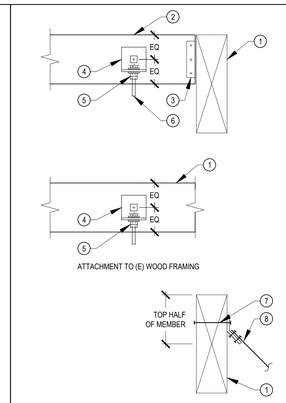


NOTE:
1. HANGER SHALL BE LOCATED AT 8'-0" O.C. MAX AND AT ALL CHANGES IN DIRECTION.
2. DUCT SUPPORTS SHOWN W/O BRACING SHALL HAVE A CROSS SECTIONAL AREA LESS THAN 6 SQFT & MAX. WEIGHT OF 20 LB /FT.

DETAIL NOTES:

1. 1"x16 GA HANGER STRAP. LENGTH AS REQUIRED, TYP. 100 LBS MAX PER STRAP.
2. #10 SMS, TYP
3. 3/8"Ø HANGER ROD
4. 1"x18 GA STRAP OVER DUCT.
5. 1-1/2"x 16GA HANGER STRAP W/ 3/8"Ø BOLT, NUT AND STAR WASHER, TYP. 100 LBS MAX PER STRAP.
6. NOTE # NOT USED.
7. NOTE # NOT USED.
8. SEE 6/2MP-601 AND 7/2MP-601 FOR TOP CONNECTION
9. DOUBLE NUTS WITH LOCKWASHER, TOP AND BOTTOM.
10. 3/16 Ø GALV. PRETENSIONED AIRCRAFT BRACING CABLE, ASTM A1023, TYP. SEE 7/2MP-601 FOR TOP CONNECTION.
11. TOLCO FIG 991 CABLE SWAY BRACE ATTACHMENT W/ CABLE CLAMP, EACH END.
12. 2" x 2" x 1/4" ANGLE.
13. 1" x 16 GAUGE CONTINUOUS COLLAR DRAWN STRAP TIGHT AROUND DUCT.

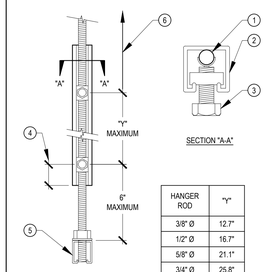
11 DUCT HANGER N.T.S.



DETAIL NOTES:

1. (E) WOOD FRAMING.
2. 4x6 BLOCKING, 24" MAX.
3. SIMPSON A35 CLIP, EACH SIDE, EACH END.
4. 3"x3" x 10 GAUGE ANGLE. ATTACH TO BLOCKING W/ 5/8"Ø MACHINE BOLT THROUGH CENTER OF MEMBER.
5. ATTACH ROD TO ANGLE WITH DOUBLE NUTS AND WASHER TOP AND BOTTOM.
6. HANGER ROD = 150 LBS MAX PER ROD, SEE 11/2MP-601.
7. 5/8"Ø THROUGH BOLT .
8. TOLCO FIG 991 CABLE SWAY BRACE ATTACHMENT W/ CABLE CLAMP, EA END.

7 TOP CONNECTION N.T.S.



HANGER ROD	"Y"
3/8" Ø	12.7"
1/2" Ø	16.7"
5/8" Ø	21.1"
3/4" Ø	25.8"

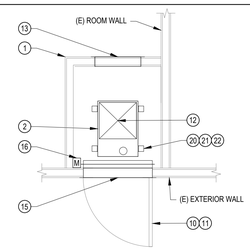
DETAIL NOTES:

1. HANGER ROD
2. UNISTRUT P1000 VERTICAL STIFFENER
3. UNISTRUT P2486 VERTICAL STIFFENER
4. 2" MAXIMUM FROM END, TYP.
5. NOTE # NOT USED.
6. 6" MAXIMUM TO TOP CONNECTION.

NOTE:

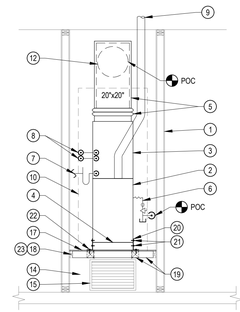
1. VERTICAL STIFFENER NOT REQUIRED IF TOTAL TOD LENGTH DOES NOT EXCEED THE "Y" DIMENSION.
2. MINIMUM OF STIFFENER ASSEMBLY CLAMPS AS REQUIRED BY MANUFACTURER.

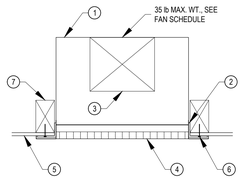
4 ROD STIFFENER N.T.S.



DETAIL NOTES:

1. (E) BUILDING FURNACE CLOSET.
2. FURNACE, SEE PLANS.
3. COOLING COIL, SEE PLANS.
4. 4" FILTER RACK W/ TOOL LESS HINGED ACCESS FOR 2" MERV 13 FILTERS.
5. INSTALL LINED SUPPLY DUCT W/ FLEX CONNECTION FROM COOLING COIL TO (E) SUPPLY DUCTWORK TO CLASSROOM. INSTALL ALL NEW DUCTWORK IN FURNACE CLOSET.
6. PIPE GAS TO FURNACE W/ SHUT-OFF VALVE, FLEX CONNECTION, AND DIRT LEG.
7. RUN CONDENSATE DRAIN W/ TRAP TO (E) CD PIPING TO (E) DRYWELL. PROVIDE CD PUMP IF REQUIRED.
8. PIPE REFRIGERANT LINES THRU BACK OF (E) CLOSET TO CONDENSING UNIT OUTSIDE. SEE PLANS.
9. INSTALL TYPE B FLUE TO (E) ROOF TERMINATION. SIZE PER MANUFACTURER DIRECTIONS.
10. EXTERIOR CLOSET DOOR.
11. (E) LOW CA LOUVER & HIGH LOUVER ON DOOR.
12. (E) SUPPLY DUCT.
13. (E) RETURN REGISTER.
14. (E) RETURN PLENUM. COVER & SEAL ALL COMBUSTIBLE MATERIALS INSIDE PLENUM WITH NON COMBUSTIBLE FIRE RATED GYP. BOARD OR SM DUCT.
15. (E) OUTSIDE AIR LOUVER MOUNTED BELOW DOOR &CONNECTED TO (E) RETURN PLENUM.
16. INSTALL NEW MOTORIZED DAMPER AT THE (E) OUTSIDE AIR LOUVER. V.I.F. (E) LOUVER SIZE & MATCH MOTORIZED DAMPER ACCORDINGLY.
17. REMOVE (E) PLYWOOD PLATFORM & REPLACE W/ FIRE RETARDANT 3/4" PLYWOOD PLATFORM SECURED TO (E) SUPPORT FRAMING.
18. (E) 2x4 PLATFORM SUPPORT FRAMING.
19. INSTALL 4x4 JOISTS W/ A34 CLIPS BOXED UNDER FURNACE. LOCATE JOISTS UNDER FURNACE & CLEAR OF RETURN AIR OPENING. TYP. 4.
20. (3"x6"x1/8" x 3'L GALV. STEEL ANGLE, TYP. (2) ON EACH SIDE.
21. SECURE ANGLE TO FILTER BOX & FURNACE W/ (2) IN LINE #10 SM SCREWS ATTACHED TO THE FURNACE & (2) IN-LINE #10 SM SCREWS ATTACH TO THE FILTER BOX AT EACH OF THE (4) TOTAL MOUNTING ANGLE CLIPS.
22. SECURE ANGLE TO 4x4 W/ 1/2"Øx3"L LAG SCREWS & WASHERS.
23. (E) LEDGER W/ 2-16D AT EA (E) STUD, V.I.F. PROVIDE 2-10 WHERE (E) CONNECTION CAN NOT BE VERIFIED, TYP 3 SIDES.

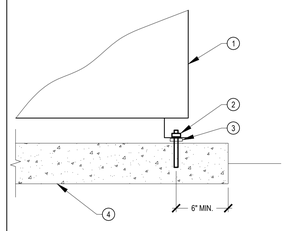




DETAIL NOTES:

1. EXHAUST FAN. FOR LOCATION, SEE PLANS.
2. FACTORY-SUPPLIED BRACKETS. REFER TO AND FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS AND PROVIDE ALL NECESSARY HARDWARE.
3. DUCTWORK. CONNECT TO FAN WITH FLEX CONNECTOR. FOR SIZES, SEE FLOOR PLANS.
4. FACTORY GRILLE ATTACHED TO FAN HOUSING PER MANUFACTURES RECOMMENDED INSTALLATION INSTRUCTIONS.
5. CEILING ASSEMBLY. SEE ARCHITECT'S DRAWINGS.
6. FACTORY MOUNTING BRACKET ATTACHED TO 2x6 BLOCK W/ (4) - #10x2" WOOD SCREW, ONE AT EA CORNER.
7. 2x6 BLOCKING ATTACHED TO (E) FRAMING W/ SIMPSON A35 EA END.

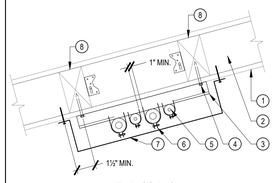
2 CEILING EXHAUST FAN DETAIL (MOUNTING OPTION 1) N.T.S.



DETAIL NOTES:

1. HEAT PUMP/CONDENSING UNIT. FOR LOCATION, SEE PLANS. ENSURE UNIT IS LEVEL.
2. POST-INSTALLED 3/8"Ø SS HILTI KWIK BOLT TZ2 WEDGE ANCHOR. MINIMUM 2" EMBEDMENT. TYP OF 4 @ MOUNTING HOLE LOCATIONS.
3. 3/8" THICK NEOPRENE ISOLATOR PAD, TYP. OF 4.
4. (E) CONCRETE HOUSEKEEPING PAD.

12 SPLIT SYSTEM HEAT PUMP/CONDENSING UNIT MOUNTING ON SLAB N.T.S.



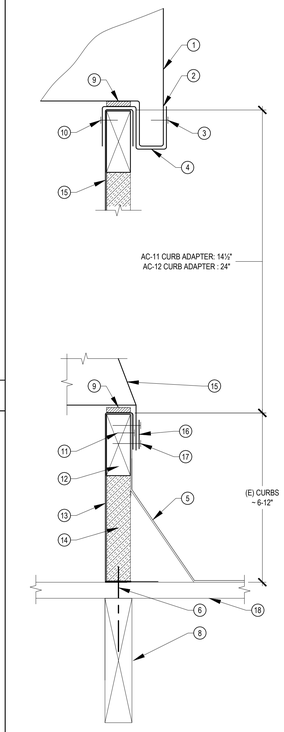
DETAIL NOTES:

1. (E) BUILDING EXTERIOR ROOF OVERHANG.
2. (E) BUILDING RAFTERS.
3. B-LINE B22 GALVANIZED STRUT CHANNEL.
4. ATTACH STRUT CHANNEL TO (E) ROOF RAFTERS OR BLOCKING WITH 1/4" LAG SCREWS W/ WASHERS BOTH ENDS OF STRUT, MIN. 2" PENETRATION. SEAL PENETRATIONS WATER TIGHT.
5. REFRIGERANT LINE SET PIPES.
6. B-LINE B2000 SERIES PIPE CLAMPS W/ B1999 VIBRA CUSHION, TYP.
7. 16 GA. GALV. SM. COVER. PAINT TO MATCH ADJACENT SURFACE.
8. 4x4 BLOCKING W/ SIMPSON A34 EA SIDE & EA. END.

GENERAL NOTES:

1. 4'-0" MAX. SPANS BETWEEN STRUT PIPE SUPPORTS, MIN. 2 SUPPORTS.

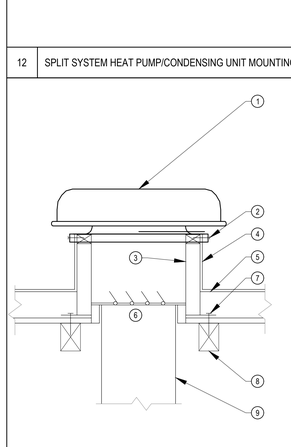
8 ROOF OVERHANG PIPE SUPPORT N.T.S.



DETAIL NOTES:

1. ROOF TOP UNIT. FOR LOCATION, SEE PLANS
2. UNIT BASE RAIL, 14 GAUGE STEEL
3. SECURE HOLD DOWN TO UNIT BASE RAIL WITH (4) #10 x1/2" TEK SCREWS, TYPICAL OF (4) LOCATIONS
4. MICROMETL UNIT HOLD DOWNS, MICRO-HOLD NO. WSS403-02 FABRICATED FROM 6" WIDE 16 GAUGE STEEL. MINIMUM 3 PER SIDE, 3" MIN 6" MAX FROM END OF UNIT.
5. 26 GA. GALV. SM COUNTER FLASHING
6. (E) 1/4"x4" LAG SCREW @ 2'-0" O.C. MAX EACH SIDE (MINIMUM 3 SCREWS PER SIDE)
7. NOTE # NOT USED.
8. (E) 2x8
9. SEALING GASKET
10. SECURE HOLD DOWN TO CURB ADAPTOR WITH (4) #10 x 1/2" TEK SCREWS, TYP.
11. NAIL FLASHING TO WOOD
12. (E) WOOD NAILER BY CURB MFR
13. (E) ROOF CURB
14. (E) RIGID INSULATION ALL AROUND
15. CURB ADAPTOR. CONTRACTOR TO VERIFY ALL DIMENSIONS
16. 14 GAUGE TIE-DOWN, 6" WIDE. MINIMUM 3 PER SIDE, 3" MIN 6" MAX FROM END OF UNIT.
17. SECURE TIE-DOWN TO (E) CURB WITH SIX (6) #12 SHEET METAL SCREWS PER TIE-OOWN
18. EXISTING DIAGONAL SHEATHING

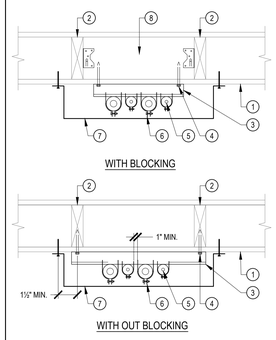
5 ROOFTOP AIR CONDITIONER MOUNTING ON CURB ADAPTOR N.T.S.



DETAIL NOTES:

1. ROOF CAP / HOOD.
2. SECURE TO ROOF CURB WITH #12 SELF TAPPING SCREWS AT 12" ON CENTER. MINIMUM 2 PER SIDE.
3. FACTORY CURB WITH NAILER.
4. FOR ROOFING AND FLASHING, SEE ARCHITECT'S DRAWINGS.
5. ROOF DECK.
6. BACKDRAFT DAMPER.
7. 3/8"Ø LAG BOLT THRU CURB AND ROOF WITH 3" MINIMUM EMBEDMENT INTO BLOCKING.
8. 4x BLOCKING. SECURE TO STRUCTURE WITH SIMPSON A35 CLIPS, EACH SIDE & EACH END.
9. DUCT SIZE PER PLANS.

13 ROOF CAP / HOOD MOUNTING N.T.S.



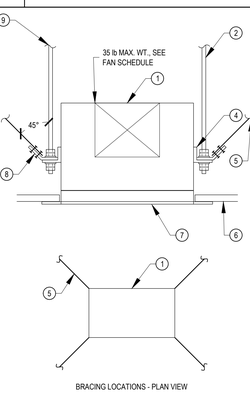
DETAIL NOTES:

1. (E) BUILDING EXTERIOR WALL.
2. (E) BUILDING STUDS.
3. B-LINE B22 GALVANIZED STRUT CHANNEL.
4. ATTACH STRUT CHANNEL TO (E) WALL STUDS OR BLOCKING WITH 1/4" LAG SCREWS W/ WASHERS BOTH ENDS OF STRUT, MIN. 2" PENETRATION. SEAL PENETRATIONS WATER TIGHT.
5. REFRIGERANT LINE SET PIPES.
6. B-LINE B2000 SERIES PIPE CLAMPS W/ B1999 VIBRA CUSHION, TYP.
7. 16 GA. GALV. SM. COVER. PAINT TO MATCH ADJACENT SURFACE.
8. 4x4 BLOCKING W/ SIMPSON A34 T&B EA. END.

GENERAL NOTES:

1. 4'-0" MAX. SPANS BETWEEN STRUT PIPE SUPPORTS, MIN. 2 SUPPORTS.

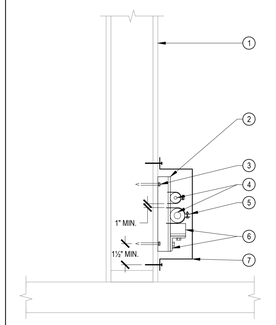
9 VERTICAL PIPE SUPPORT TO WALL N.T.S.



DETAIL NOTES:

1. CEILING EXHAUST FAN. FOR LOCATION, SEE PLANS.
2. 3/8" THREADED ROD, (TYP. OF 4). ATTACH TO STRUCTURE. MAX. LENGTH 19" W/O ROD STIFFENER. PROVIDE ROD STIFFNER WHERE ROD LENGTH FOR SEISMIC BRACING TO UPPER ATTACHMENT EXCEEDS 18", SEE DETAIL 4/2MP-601.
3. NOTE # NOT USED
4. FACTORY-SUPPLIED BRACKETS. PROVIDE DOUBLE NUTS WITH LOCKWASHER AT TOP AND BOTTOM OF FLANGE. REFER TO AND FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS AND PROVIDE ALL NECESSARY HARDWARE.
5. 3/16"Ø AIRCRAFT CABLE, PRETENSIONED AT 5 LBS, TYP. ATTACH TO STRUCTURE, SEE TOP CONNECTION DETAIL 7/2MP-601.
6. CEILING ASSEMBLY. SEE ARCHITECT'S DRAWINGS.
7. FACTORY GRILLE.
8. TOLCO FIG 991 CABLE SWAY BRACE ATTACHMENT W/ CABLE CLAMP, EACH END.
9. FOR TOP CONNECTIONS REFER TO TOP CONNECTION DETAIL 7/2MP-601.

3 CEILING EXHAUST FAN DETAIL (HANGING OPTION 2) N.T.S.



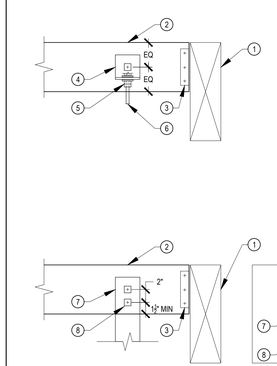
DETAIL NOTES:

1. (E) BUILDING EXTERIOR WALL.
2. B-LINE B22 GALVANIZED STRUT CHANNEL.
3. ATTACH STRUT CHANNEL TO (E)WALL STUDS WITH 1/4" LAG SCREWS W/ WASHERS BOTH ENDS OF STRUT, MIN. 2" PENETRATION. SEAL PENETRATIONS WATER TIGHT.
4. REFRIGERANT PIPES W/ INSULATION & AL. JACKETS.
5. B-LINE B2000 SERIES PIPE CLAMPS W/ B1999 VIBRA CUSHION, TYP.
6. B-LINE B22 BOLTED 90° W/ B231 CLIP TO SUPPORT PIPES FROM SLIDING DOWN.
7. 16 GA. GALV. SM. COVER. PAINT TO MATCH ADJACENT SURFACE.

GENERAL NOTES:

1. 5'-0" MAX. SPANS BETWEEN STRUT PIPE SUPPORTS.

10 HORIZONTAL PIPE SUPPORT TO WALL N.T.S.



DETAIL NOTES:

1. (E) WOOD FRAMING.
2. 4x6 BLOCKING, 24" MAX.
3. SIMPSON A35 CLIPS, EACH SIDE, EACH END.
4. 3"x3" x 10 GAUGE ANGLE. ATTACH TO BLOCKING W/ 5/8"Ø MACHINE BOLT THROUGH CENTER OF MEMBER.
5. ATTACH ROD TO ANGLE WITH DOUBLE NUTS AND WASHER TOP AND BOTTOM.
6. HANGER ROD = 150 LBS MAX PER ROD, SEE 11/2MP-601.
7. HANGER STRAP = 100 LBS MAX PER STRAP, SEE 11/2MP-601.
8. (2) #10 WOOD SCREWS

6 TOP CONNECTION N.T.S.

AGENCY APPROVAL DSA# 01-121440

911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146

CYPRESS Engineering Group
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
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CONSULTANTS

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
9 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — MEFIN SERT UMO — No. M31059 — EXP. JUNE 30, 2025 — MECHANICAL — STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
DETAILS - MECHANICAL & PLUMBING

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

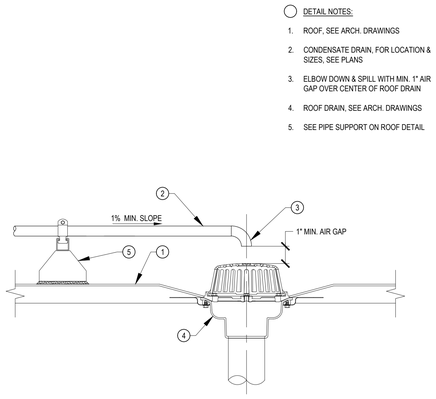
SHEET NO.
2MP-601

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.dwg

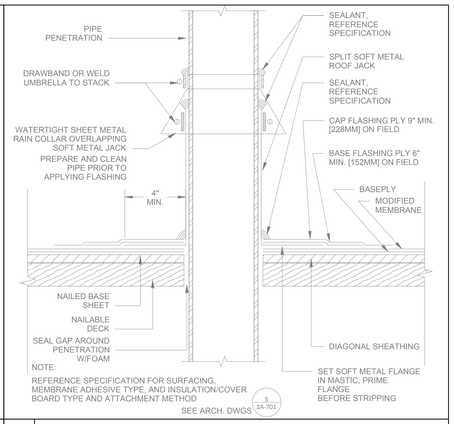
DATE PLOTTED: 9/24/2024 4:27 PM



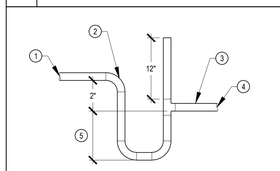
DETAIL NOTES:

1. ROOF, SEE ARCH. DRAWINGS
2. CONDENSATE DRAIN, FOR LOCATION & SIZES, SEE PLANS
3. ELBOW DOWN & SPILL WITH MIN. 1" AIR GAP OVER CENTER OF ROOF DRAIN
4. ROOF DRAIN, SEE ARCH. DRAWINGS
5. SEE PIPE SUPPORT ON ROOF DETAIL

5 CONDENSATE DRAIN TO ROOF DRAIN N.T.S.



1 PIPE PENETRATION N.T.S.



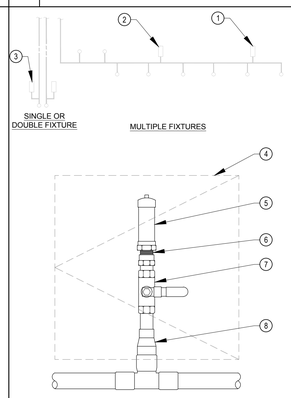
DETAIL NOTES:

1. CONNECT CD TO UNIT PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
2. LONG RADIUS ELBOW, TYP.
3. PITCH MINIMUM 1/8" PER FOOT.
4. ROUTE TO POC. SEE PLANS.
5. UNIT TOTAL INCHES STATIC PRESSURE ±2".
6. NATURAL GAS PIPE.
7. GAS SHUTOFF VALVE TYP AT EACH UNIT.
8. UNION.
9. FLEXIBLE CONNECTOR.
10. DIRT LEG.

NOTES:

1. CD PIPE SIZE SHALL NOT BE SMALLER THAN UNIT DRAIN CONNECTION SIZE.
2. FOR PIPE SIZES AND LOCATIONS, SEE PLANS.

6 GAS AND CONDENSATE DRAIN CONNECTION TO EQUIPMENT N.T.S.



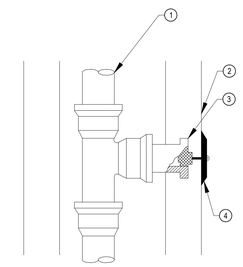
DETAIL NOTES:

1. INSTALL WATER HAMMER ARRESTOR JUST BEFORE LAST FIXTURE ON BRANCH LINE.
2. INSTALL AN ADDITIONAL WATER HAMMER ARRESTOR IF THE BRANCH LINE IS GREATER THAN 20' LONG.
3. INSTALL WATER HAMMER ARRESTOR ON ALL FIXTURES WITH QUICK CLOSING VALVES.
4. WALL ACCESS PANEL. LABEL PANEL "WATER HAMMER ARRESTOR" W/ PHENOLIC PLASTIC ENGRAVED LABEL.
5. WATTS SERIES 15 OR EQUAL WATER HAMMER ARRESTOR. SIZE PER MANUFACTURER'S INSTRUCTIONS.
6. FITTING ADAPTER.
7. BALL VALVE. SIZE TO EQUAL WATER HAMMER ARRESTOR SIZE.
8. FITTING REDUCER (IF REQUIRED).

NOTES:

1. COMBINE SHUT-OFF VALVES, TRAP PRIMERS AND WATER HAMMER ARRESTORS BEHIND SINGLE WALL ACCESS PANEL WHERE POSSIBLE.

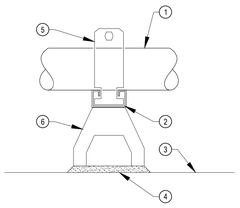
2 WATER HAMMER ARRESTOR DETAIL N.T.S.



DETAIL NOTES:

1. VENT, SOIL,WASTE OR LEADER STACK
2. WALL
3. WALL CLEANOUT
4. WALL PLATE AS SPECIFIED

3 WALL CLEANOUT DETAIL N.T.S.



DETAIL NOTES:

1. FOR PIPE SIZES AND TYPES, SEE PLANS.
2. PROVIDE GAP BETWEEN INTEGRAL STRUT CHANNEL AND HARDWARE USED TO SECURE PIPE TO ALLOW FOR MOVEMENT OF SYSTEM.
3. ROOF DECK.
4. SET SUPPORT IN MASTIC COMPATIBLE WITH ROOF SURFACE.
5. PROVIDE STANDARD STRUT CLAMPS.
6. B-LINE DURA-BLOCK WITH INTEGRAL CHANNEL AND PIPE BRACKETS, WIDTH AS REQUIRED FOR NUMBER OF PIPES.

NOTES:

1. REFER TO SPECIFICATIONS FOR SPACING BETWEEN SUPPORT BLOCKS. ADDITIONALLY PROVIDE BLOCK WITHIN 2'-0" OF ANY CHANGE OF DIRECTION.

4 PIPE SUPPORT ON ROOF N.T.S.

AGENCY APPROVAL DSA# 01-121440

196

911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146

CYPRESS Engineering Group

831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com

HVAC, Plumbing, Fire Protection
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TEL (408) 261-9800

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San Francisco, CA 94104
TEL (415) 466-2997

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3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MEYIN SERT LYNG
No. M31059
EXP. JUNE 30, 2025
MECHANICAL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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SHEET TITLE
DETAILS - MECHANICAL & PLUMBING

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

SHEET NO.
2MP-602

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.dwg

DATE PLOTTED: 9/24/2024 4:27 PM

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Rio Vista ES Inc. 2	Report Page: (Page 1 of 11)
Project Address:	Date Prepared: 2024-07-01T14:30:45-04:00

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.

A. GENERAL INFORMATION

01	Project Location (city)	Bay Point	04	Total Conditioned Floor Area	897
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

• Classroom

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: Rio Vista ES Inc. 2	Report Page: (Page 2 of 11)
	Date Prepared: 2024-07-01T14:30:45-04:00

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 with Exceptional Conditions
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.

Transfer air is being used in at least one zone to meet minimum ventilation requirements. See Table J for details. *Transfer air* must be designed per §120.1(e) for air classification and recirculation limitations and be documented within construction documents.

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
CU-10-C#	5	Single zone	Alteration		☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Rio Vista ES Inc. 2	Report Page: (Page 3 of 11)
	Date Prepared: 2024-07-01T14:30:45-04:00

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
				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]	
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3ai	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	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)
CU-10-C#	Unitary AC/ Condensers	AC, air cooled, split (3 phase)	NA: Altered per 141.0(b)2E and 180.2(b)2				45.64	45.64		45.64
F-10-C#	Furnace/ Unit Heater	Warm-air duct furnace, gas-fired	NA: Altered per 141.0(b)2E and 180.2(b)2	80	80	0			80	

[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).

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

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
		Heating Mode					Cooling Mode	
Name or Item Tag	Size Category (Btu/h)	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
CU-10-C#	<65,000					SEER	13	14
F-10-C#			Combustion Efficiency	0.8	0.8			

G. PUMPS

This section does not apply to this project.

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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	F-10-C#	Quantity	5	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,620	Site Elevation	71	Economizer	Fixed Temperature
01		02	03	04		05		06	07	08		09		10	11
									Allowance					Design	
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method		Motor Nameplate Horsepower		Design Electrical Input Power (kW)
F-10-C#	Supply	1	Gas heat			100			0.05	0.4372	Manufacturer provided				0.76
			MERV 13-16 Filter downstream of thermal conditioning equipment			100			0.23						
			Supply Fan System			100			0.13						
			Economizer Return Damper			20			0.04						
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)						Fan System Allowance (kW)[3]				Fan System Electrical Output (kW)		0.76

[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..

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

01	02	03	04	05	06	07	08	09	10	11
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
F-10-C#			1,620	200	0.12	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
F-10-C#	Altered Fan System	

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	10
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(e) 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	Direct Digital Control (DDC) per 120.2
F-10-C#	Single zone	NA: Altered per 141.0(b)2E	Setback	NA: Altered per 141.0(b)2E	NA: Single Zone	DR Total per 110.12	NA: Alteration	NA: Alteration Project	NA: Single Zone

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I. SYSTEM CONTROLS

[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.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and dwelling/unit/(1160.2, 160.3(a)3B, 170.2(c)4N, 170.2(e)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	F-10-C#	System Design OA CFM Airflow[1]		200	System Design Transfer Air CFM	1620	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)2[1]	
							Provided	
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[1] & 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[2] 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	
F-10-C#	Classroom (ages 5-18)	897			134.55			DCV: Provided per §120.1(d)4
								Occ Sensor: Provided per §120.1(d)5
17	Total System Required Min OA CFM				134.55	18	Ventilation for this System Complies?	Yes

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

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J. VENTILATION AND INDOOR AIR QUALITY

[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.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	F-10-C#	**NR/ Common Use:** Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	No

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L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.10.1 required for these systems?	No
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	No	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	Exposed Ductwork located in occupied space	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18	Yes	All ductwork is an extension of an existing duct system	
19	No	Ductwork serving individual dwelling unit	
20	Yes	< 25 ft of new or replacement space conditioning ducts installed	
21	R-0.0	Duct Insulation R-value	
22	Yes	Ductwork Existing To Remain	
23	Yes	Duct System Connected To Altered Space Conditioning System	

M. COOLING TOWERS

This section does not apply to this project.

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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/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

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/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

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.	F-10-C#
NRCA-MCH-05-A - Air Economizer Controls	F-10-C#
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.	F-10-C#
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	CU-10-C#

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: 2MP-801

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CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
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Project Address:	Date Prepared: 2024-07-01T14:30:45-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Rod Revera	Documentation Author Signature:
Company: Cypress Engineering Group	Signature Date: 07/01/24
Address: 8 Harris Court Suite A8	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Monterey, CA 93940	Phone: 831.218.1802

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: Metin Sertunc	Responsible Designer Signature:
Company: Cypress Engineering Group	Date Signed: 07/01/24
Address: 8 Harris Court Suite A8	License: M31059
City/State/Zip: Monterey, CA 93940	Phone: 831.218.1802

AGENCY APPROVAL DSA# 01-121440

196
911 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CEG JOB NO: 23146

CYPRESS Engineering Group
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Environmental Compliance
Training & Technical Support

CONSULTANTS

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
9 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
METIN SERTUNC
No. M31059
EXP. JUNE 30, 2025
MECHANICAL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
1		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
T24 - MECHANICAL

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23118.01

SHEET NO.
2MP-801

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 9/24/2024 4:27 PM
FILE LOCATION: E:\Shared Drives\HVAC\19-6 Nineteen Six\23146 - Rio Vista ES Mod\03 Dwgs\Rio Vista ES Mod Inc 2.rvtg

ELECTRICAL COMPONENT ANCHORAGE NOTES

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET 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 OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL AND TELECOM UTILITIES. "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 STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4'-0" OR GREATER ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT, IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

1. COMPONENTS WEIGHTING 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.
2. COMPONENTS WEIGHTING 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 HUNG FROM A WALL.

THE ANCHORAGE OF ALL ELECTRICAL 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.

ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTES

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. HCAi OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ELECTRICAL DISTRIBUTIONS SYSTEMS (E):

☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAi (OSHPD) PRE-APPROVAL (OPM #) #_____.

ABBREVIATIONS

A	AMPERE
ABV	ABOVE
AF	AMPERE FRAME, AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ARCH	ARCHITECTURAL
AS	AMPERE SWITCH
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CBC	CALIFORNIA BUILDING CODE
CD	CANDELA
CEC	CALIFORNIA ELECTRICAL CODE
CFC	CALIFORNIA FIRE CODE
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
CSFM	CALIFORNIA STATE FIRE MARSHALL
CTR	CENTER
(D)	DEMOLISH
DET	DETAIL
DIM	DIMENSION
DIST	DISTRIBUTION
DP	DISTRIBUTION PANEL
DWG	DRAWING
(E)	EXISTING
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE RESISTOR
EQP	EQUIPMENT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
(F)	FUTURE
FIN	FINISH
FLR	FLOOR
G, GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HGT	HEIGHT
HP	HORSEPOWER
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
INFO	INFORMATION
JB	JUNCTION BOX
KAIC	KILOAMPERE INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
KCMIL	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NIEC	NOT IN ELECTRICAL CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NUM, #	NUMBER
OC	ON CENTER
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
(R)	EXISTING TO BE RELOCATED
REQD	REQUIRED
REQT(S)	REQUIREMENT(S)
RM	ROOM
RSC	RIGID STEEL CONDUIT
SAD	SEE ARCHITECTURAL DOCUMENTS
SHT	SHEET
SPD	SURGE PROTECTIVE DEVICE
STC	SIGNAL TERMINAL CABINET
SW	SWITCH
SWBD	SWITCHBOARD
T24	CALIFORNIA ENERGY CODE
TC	TERMINAL CABINET
TEL	TELEPHONE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT, WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER

OWNERSHIP OF INSTRUMENTS OF SERVICE

1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

2. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, CONSULTANT) AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT.

CODES AND STANDARDS

1. 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART 2,TITLE 24, CCR).
2. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
3. 2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).
4. 2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).
5. 2022 CALIFORNIA ENERGY CODE (PART 6,TITLE 24, CCR).
6. 2022 CALIFORNIA FIRE CODE (CFC) (PART 9,TITLE 24, CCR).
7. 2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).
8. 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR).
9. 2022 NFPA 72 NATIONAL FIRE ALARM CODE.
10. 2015 NFPA 720 STANDARDS FOR CARBON MONOXIDE DETECTION AND WARNING.
11. 2022 NFPA 13 STANDARDS FOR FIRE SPRINKLER SYSTEMS.
12. ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A.
13. ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF REGULATIONS (INCLUDING AMENDMENTS).

ACCEPTANCE TESTING

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

A LISTING 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.

NEW VS. EXISTING

- (N) CONDUIT - CONCEALED IN WALLS OR CEILING.
- (E) CONDUIT - CONCEALED IN WALLS OR CEILING.
- (E) CONDUIT - TO BE REMOVED.
- (N) DEVICE OR EQUIP (EXAMPLE)
- (E) DEVICE OR EQUIP (EXAMPLE)
- (E) DEVICE OR EQUIP TO BE REMOVED (EXAMPLE)

WIRING, CONDUIT, AND RACEWAY SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - EXPOSED.
- CONDUIT - UNDERGROUND / DIRECT BURIAL.
- CONDUIT HOME RUN TO PANEL, TERMINAL CABINET, ETC. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODES. ALL 20A/1P BRANC CIRCUITS SHALL BE #12 AWG WIRES WITH #12 AWG NEUTRALS AND GROUNDS RUN A MAXIMUM OF 3 BRANCH CIRCUITS PER CONDUIT.
- CONDUIT - FLEX WITH CONNECTION.
- CONDUIT - STUB UP.
- CONDUIT - STUB DOWN.
- CONDUIT - EMERGENCY POWER SYSTEM.
- CONDUIT - CAPPED.
- CONDUIT - CONTINUATION.
- SURFACE MOUNTED WIRE RACEWAY - INSTALL AT + 36" AFF UON.
- SURFACE MOUNTED WIRE RACEWAY UP/DOWN
- IN-GRADE PULL BOX. SINGLE LINE = NON-TRAFFIC RATED. DOUBLE LINE = TRAFFIC RATED. "Y" = UNIQUE BOX IDENTIFIER. "X" = SYSTEM:
  P = POWER
  C = COMMUNICATIONS
  F = FIRE ALARM
  L = LIGHTING
  E = EV CHARGER

POWER DISTRIBUTION SYMBOLS (SINGLE LINE)

- TRANSFORMER (SINGLE LINE)
- TRANSFORMER (RISER)
- STANDARD / EMERGENCY PANEL BOARD
- STANDARD / EMERGENCY DISTRIBUTION PANELBOARD
- SWITCHBOARD
- EMERGENCY GENERATOR
- CIRCUIT BREAKER, DRAW-OUT, 3-POLE UON.
- CIRCUIT BREAKER, 3-POLE UON.
- FUSED SWITCH, 3-POLE UON.
- AUXILIARY CONTACT - NORMALLY OPENED.
- AUXILIARY CONTACT - NORMALLY CLOSED.
- AUTOMATIC TRANSFER SWITCH WITH GENERATOR STARTING AND TRANSFER SWITCH STATUS CONTACTS.
- GROUND ROD
- METER WITH CURRENT TRANSFORMERS. "X" INDICATES METER IDENTIFIER, SEE SCHEDULE.
  U = UTILITY METER
  M# = OWNER METER, SEE SPECIFICATIONS
- METER INSTALLED WITHIN EQUIPMENT
- METER IN STANDALONE ENCLOSURE
- CURRENT TRANSFORMERS

POWER DISTRIBUTION SYMBOLS (PLANS)

- PANELBOARD - FLUSH MOUNTED.
- PANELBOARD - SURFACE MOUNTED.
- DISTRIBUTION PANEL
- SWBD — SWITCHBOARD
- PULL — SWITCHBOARD SECTION - PULL SECTION
- MTR — SWITCHBOARD SECTION - METER SECTION
- MAIN — SWITCHBOARD SECTION - MAIN BREAKER SECTION
- MTR/MN — SWITCHBOARD SECTION - METER AND MAIN BREAKER SECTION
- DIST — SWITCHBOARD SECTION - DISTRIBUTION SECTION
- MOTOR
- EQUIPMENT WITHOUT MOTOR
- EQUIPMENT WITH MOTOR
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- COMBINATION MAGNETIC STARTER/FUSED DISCONNECT SWITCH
- MAGNETIC STARTER - NEMA SIZE INDICATED.
- VFD — VARIABLE FREQUENCY DRIVE
- MOTOR RATED SWITCH
- T — TRANSFORMER
- GROUND ROD
- G — GENERATOR
- CH 2 — EQUIPMENT TAG - SEE EQUIPMENT SCHEDULE
  "CH" = EQUIPMENT TYPE
  "2" = UNIQUE IDENTIFIER

RECEPTACLE AND POWER SYMBOLS

POKE THRU	FLR	WALL	CLG	AT HGT	
					SIMPLEX RECEPTACLES
					DUPLEX RECEPTACLES
			ANT		QUADRUPLEX RECEPTACLES
					GFCI DUPLEX RECEPTACLES
					GFCI QUADRUPLEX RECEPTACLES
					HALF-CONTROLLED DUPLEX RECEPTACLES
					HALF-CONTROLLED QUADRUPLEX RECEPTACLES
X	X	X			SPECIAL DUPLEX RECEPTACLES, SEE BELOW
X	X	X			SPECIAL QUADRUPLEX RECEPTACLES, SEE BELOW
					HALF-SWITCHED RECEPTACLES
J	J	J	J		JUNCTION BOX

TYPICAL RECEPTACLE NOMENCLATURE

R1-3 — "R1" DENOTES PANEL NAME
"3" DENOTES CIRCUIT NUMBER
R1-3 +Y — "X" DENOTES SPECIAL RECEPTACLE TYPE (IF APPLICABLE)
"Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)
R1-3 X

SPECIAL RECEPTACLE DESIGNATIONS

LTR	RATING	NEMA	PLUG TYPE PROVIDED WITH EQUIP
A	125V, 1Ø, 30A, 2P, 3W	5-30R	WITH 5-30P PLUG
B	125V, 1Ø, 50A, 2P, 3W	5-50R	WITH 5-50P PLUG
C	125/250V, 1Ø, 20A, 3P, 4W	14-20R	WITH 14-20P PLUG
D	125/250V, 1Ø, 30A, 3P, 4W	14-30R	WITH 14-30P PLUG
F	125/250V, 1Ø, 50A, 3P, 4W	14-50R	WITH 14-50P PLUG
G	125/250V, 1Ø, 60A, 3P, 4W	14-60R	WITH 14-60P PLUG
H	250V, 1Ø, 20A, 2P, 3W	6-20R	WITH 6-20P PLUG
J	250V, 1Ø, 30A, 2P, 3W	6-30R	WITH 6-30P PLUG
K	250V, 1Ø, 50A, 2P, 3W	6-50R	WITH 6-50P PLUG
L	-	-	"L" INDICATES ASSOCIATED RECEPTACLE IS LOCKING TYPE, PROVIDE MATCHING PLUG FOR EACH RECEPTACLE
M	250V, 1Ø, 20A, 2P, 3W	6-20R	WITH 6-20P PLUG
N	250V, 1Ø, 30A, 2P, 3W	6-30R	WITH 6-30P PLUG
P	250V, 1Ø, 50A, 2P, 3W	6-50R	WITH 6-50P PLUG
R	250V, 3Ø, 20A, 3P, 4W	15-20R	WITH 15-20P PLUG
S	250V, 3Ø, 30A, 3P, 4W	15-30R	WITH 15-30P PLUG
T	250V, 3Ø, 50A, 3P, 4W	15-50R	WITH 15-50P PLUG
U	125V, 1Ø, 20A, 2P, 3W	5-20R	(2) INTEGRAL USB PORTS, SEE SPECS
V	480V, 3Ø, 30A, 3P, 4W	L16-30R	WITH L16-30P PLUG
X	125V, 1Ø, 20A, 2P, 3W	5-20R	ISOLATED GROUND WITH INTEGRAL TRANSIENT SUPPRESSOR AND DEDICATED GREEN/YELLOW CONDUCTOR BACK TO GROUND BUS AT PANEL
Y	125V, 1Ø, 20A, 2P, 3W	5-20R	DEDICATED CIRCUIT

NOTES

1. WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE, UON.
2. WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.
   2.1. LOCATIONS WITH OPEN FORWARD APPROACH: +44" AFF MAX
   2.2. LOCATIONS WITH PARALLEL APPROACH: +46" AFF MAX
3. FOR HALF-SWITCHED RECEPTACLES, MOUNT SWITCH AT 48" AFF TO CENTER OF SWITCH, UON
4. WHERE POWER AND LOW VOLTAGE FLOOR BOXES OR POKE THRUS ARE SHOWN IN THE SAME LOCATION, THOSE DEVICES SHALL BE LOCATED WITHIN THE SAME ENCLOSURE, UON.
5. SIZE JUNCTION BOXES AS REQ'D PER CODE. TAPE AND TAG WIRES. COORDINATE WITH EQUIPMENT AND PROVIDE FLEX CONDUIT AND/OR RECEPTACLES AS REQUIRED TO CONNECT EQUIPMENT.
6. FOR SPECIAL RECEPTACLES, COORDINATE WIRE SIZE, WIRE QUANTITY, CONDUIT SIZE, AND RECEPTACLE TYPE WITH ACTUAL EQUIPMENT SUBMITTED AND PURCHASED. EQUIPMENT NOTED ON PLANS SHALL BE CONSIDERED AS THE BASIS OF DESIGN AND CONTRACTOR SHALL PROVIDE CONNECTIVITY AS REQUIRED FOR ACTUAL EQUIPMENT PURCHASED AND INSTALLED TO PROVIDE A FULLY FUNCTIONAL SYSTEM.

GENERAL SYMBOLS

- 3 / E2.1 — PLAN OR DETAIL DESIGNATION
  "3" DENOTES DETAIL OR PLAN NUMBER
  "E2.1" DENOTES SHEET NUMBER.
- 3 / - — "-" DENOTES SAME SHEET.
- 2 / E1.0 — SECTION OR ELEVATION DESIGNATION
  "2" DENOTES SECTION OR ELEVATION NUMBER
  "E1.0" DENOTES SHEET NUMBER.
- 2 / - — "-" DENOTES SAME SHEET.
- # — SHEET NOTE TAG - SEE APPLICABLE NOTE ON SAME SHEET
- XXXX — FEEDER SCHEDULE TAG, SEE APPLICABLE SCHEDULE
- XXXX — CONDUIT SCHEDULE TAG, SEE APPLICABLE SCHEDULE

GENERAL NOTES

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.

B. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.

C. BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.

D. OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.

F. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.

G. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

H. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS.

I. ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER AND FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.

J. ALL WIRE SIZING SHOWN ON THE CONSTRUCTION DOCUMENTS UTILIZES ASSUMED ROUTING AND CIRCUIT LENGTHS TO DETERMINE VOLTAGE DROP. CONTRACTOR SHALL VERIFY ALL CIRCUIT LENGTHS WITH ACTUAL FIELD CONDITIONS AND SHALL PROVIDE INCREASED WIRE AND CONDUIT SIZES AS REQUIRED TO LIMIT FEEDERS TO A MAXIMUM OF 2% VOLTAGE DROP AND BRANCH CIRCUITRY TO A MAXIMUM OF 3% VOLTAGE DROP.

K. ALL POWER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS WITH TIE-BARS AT THE BREAKERS IN THE PANEL SHALL NOT BE ALLOWED.

L. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.

M. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

N. NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE THE WIRING SYSTEM.

O. THE CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING SECURITY, CATV, DATA, TELEPHONE, CLOCK, AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.

P. PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION. LABEL EACH END OF THE CONDUIT WITH TYPED, PERMANENT LABEL, TO IDENTIFY WHERE THE OPPOSING END TERMINATES.

Q. ALL EQUIPMENT VOLTAGES AND AMPACITY IS BASED ON THE INFORMATION PROVIDED BY OTHER DISCIPLINES AS PART OF THE CONTRACT DOCUMENTS. VERIFY ALL VOLTAGES AND AMPACITIES OF EQUIPMENT WITH GENERAL AND OTHER SUB-CONTRACTORS PRIOR TO ROUGH-IN AND PROVIDE PROVISIONS FOR CORRECT BREAKER, WIRING, AND CONDUIT SIZES BASED ON ACTUAL EQUIPMENT TO BE USED FOR THE PROJECT.

R. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.

S. CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.

T. PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.

U. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE ORPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-26.

V. ALL CONTROLS, SWITCHES, AND ELECTRICAL RECEPTACLE OUTLETS SHALL BE NOT MORE THAN +48" AFF TO TOP OF THE OUTLET BOX, NOR LESS THAN +15" AFF TO BOTTOM OF OUTLET BOX PER CBC 11B-308.1.

W. CONTRACTOR SHALL PERFORM ALL TESTING AND COMPLETE ALL DOCUMENTATION FOR THE LIGHTING AND LIGHTING CONTROLS SYSTEM ACCEPTANCE TESTING PER REQUIREMENTS OF CEC SECTION 130.4. SUBMIT ALL DOCUMENTATION TO THE AHJ.

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AGENCY APPROVAL DSA# 01-121440

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991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

#		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PRO

LUMINAIRE SYMBOLS

	LUMINAIRE - RECESSED.
	LUMINAIRE - SURFACE MOUNT STRIP.
	LUMINAIRE - SURFACE MOUNT.
	LUMINAIRE - PENDANT MOUNT LINEAR FIXTURE.
	LUMINAIRE - WALL MOUNT LINEAR FIXTURE.
	LUMINAIRE - RECESSED DOWNLIGHT.
	LUMINAIRE - SINGLE WALL WASHER.
	LUMINAIRE - DOUBLE WALL WASHER.
	LUMINAIRE - CORNER WALL WASHER.
	LUMINAIRE - PENDANT MOUNT ROUND FIXTURE.
	LUMINAIRE - WALL MOUNT CAN.
	LUMINAIRE - WALL MOUNT BOX.
	LUMINAIRE - POLE MOUNT SINGLE HEAD.
	LUMINAIRE - POLE MOUNT DOUBLE HEAD.
	EXIT LIGHT - WALL MOUNT SINGLE FACE.
	EXIT LIGHT - CEILING MOUNT DOUBLE FACED.
	EXIT LIGHT - WALL MOUNT SINGLE FACE WITH ARROW.
	EXIT LIGHT - CEILING MOUNT DOUBLE FACED WITH DOUBLE ARROWS.
	EXIT LIGHT - EMERGENCY BATTERY PACK.

TYPICAL LUMINAIRE NOMENCLATURE

- UNSHADED SYMBOL DENOTES STANDARD LUMINAIRE.
- SHADED SYMBOL DENOTES EMERGENCY LUMINAIRE.
- A — "A" DENOTES LUMINAIRE TYPE
- L1-3b — "L1" DENOTES PANEL NAME; "3" DENOTES CIRCUIT NUMBER; "b" DENOTES SWITCH LEG

NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING FIXTURE TYPE AND MOUNTING CONDITIONS, REGARDLESS OF SYMBOL SHOWN ON PLANS. COORDINATE WITH EXACT CEILING CONDITIONS TO PROVIDE ALL MOUNTING HARDWARE AND MISC. APPURTENANCES AS REQUIRED FOR A COMPLETE INSTALLATION.
2. REFER TO LUMINAIRE/FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION, MOUNTING, AND LAMPING INFORMATION.
3. SHADED FIXTURES SHALL INDICATE THAT FIXTURE IS CONNECTED TO AN EMERGENCY POWER SOURCE. PROVIDE ALL MISC. APPURTENANCES AS REQUIRED TO ALLOW FIXTURE TO TRANSFER FROM NORMAL TO EMERGENCY POWER. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, TRANSFER MODULES AND/OR UL 924 RELAYS AS REQUIRED TO ALLOW ALL EMERGENCY FIXTURES TO BE CONTROLLED WITH ROOM LIGHTING DURING NORMAL CONDITIONS AND THEN TRANSFER TO EMERGENCY POWER SOURCE UPON LOSS OF NORMAL POWER.
4. PROVIDE ADDITIONAL EXIT SIGNS IN LOCATIONS AS REQUIRED BY INSPECTOR DURING FIELD INSPECTIONS. CONTRACTOR SHALL PROVIDE IN THEIR BID MATERIALS AND INSTALLATION LABOR FOR 5% ADDITIONAL SPARE EXIT SIGNS (MINIMUM OF 1 SIGN) BEYOND THOSE SHOWN ON THE DRAWINGS TO ALLOW FOR FINAL REVIEW, SIGN-OFF, AND APPROVAL BY THE AHJ.

LIGHTING CONTROLS SYMBOLS

	OCCUPANCY SENSOR - CEILING MOUNT WITH BI-DIRECTIONAL VIEW. ARROWS INDICATE AIMING DIRECTION.
	OCCUPANCY SENSOR - CEILING MOUNT WITH 360° VIEW.
	OCCUPANCY SENSOR - WALL MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION.
	PHOTOSENSOR - CEILING MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION.
P	PHOTOSENSOR - CEILING MOUNT WITH 360° VIEW.
P	PHOTOSENSOR - WALL MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION.
$	SINGLE POLE SWITCH - WALL MTD AT + 48" AFF TO TOP OF BOX UON.
TS	TIME SWITCH
LCP	LIGHTING CONTROL PANEL
RC	SWITCHING ROOM CONTROLLER
DRC	DIMMING ROOM CONTROLLER

TYPICAL SWITCH NOMENCLATURE

- Xy $ — "y" DENOTES SWITCH LEG; "X" DENOTES SWITCH TYPE
  - D = DIMMER SWITCH
  - K = KEY OPERATED SWITCH
  - L = LOW VOLTAGE MULTI-BUTTON SWITCH
  - M = MOMENTARY CONTACT SWITCH
  - T = DIGITAL WALL TIMER
  - S = OCCUPANCY SENSOR SWITCH
  - BLANK = SINGLE POLE SWITCH
  - 3 = 3 WAY SWITCH
  - 4 = 4 WAY SWITCH
- X — "X" DENOTES SENSOR TYPE
  - BLANK = DUAL TECHNOLOGY
  - D = DUAL TECHNOLOGY
  - P = PASSIVE INFRARED
  - U = ULTRASONIC
- Lx $ — LOW VOLTAGE MULTI-BUTTON SWITCH; "x" DENOTES SWITCH UNIQUE SWITCH IDENTIFIER (SEE SCHEDULE FOR SWITCH LEGS/RELAYS CONTROLLED)
- Dxyz $ — DIMMING MULTI-BUTTON SWITCH; "x" "y" "z" (ETC) DENOTE SWITCH LEGS CONTROLLED
- x y z $$$ — MULTIPLE SWITCHES LOCATED WITHIN A SINGLE WALL PLATE; "x" "y" "z" (ETC) DENOTE SWITCH LEGS CONTROLLED

NOTES

1. INSTALL SWITCHING AND DIMMING ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING. FOR ROOMS WITH GYP BD OR OTHER INACCESSIBLE CEILINGS, PROVIDE 2'X2' ACCESS PANEL WITHIN ARMS LENGTH OF WHERE DEVICES ARE MOUNTED. WHERE INSTALLATION OF AN ACCESS PANEL IS NOT POSSIBLE, INSTALL DEVICES IN CONCEALED IN ADJACENT ACCESSIBLE SPACE AND PROVIDE TYPED, SELF ADHESIVE LABEL NOTING WHICH ROOM THE DEVICES CONTROL.
2. PROVIDE SINGLE WALL PLATE FOR MULTIPLE SWITCHES LOCATED TOGETHER. PROVIDE APPROPRIATE QUANTITY, SIZE, AND SHAPE OF CUT OUTS TO ACCOMMODATE ALL DEVICES AT THAT LOCATION (E.G. REGULAR TOGGLE SWITCH VS. DECORATOR STYLE DEVICE). ALL WALLPLATES SHALL BE FACTORY CUT, NO FIELD CUT OPENINGS SHALL BE ALLOWED.
3. DEVICE LOCATIONS ON PLANS ARE APPROXIMATE AND DIAGRAMMATIC. CONTRACTOR SHALL INSTALL DEVICES PER CODE REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS.
4. LIGHT SWITCHES SHALL NOT BE LOCATED BEHIND ROOM DOORS WHEN DOORS ARE FULLY OPENED. LOCATE ALL SWITCHES SUCH THAT THEY ARE VISIBLE AND ACCESSIBLE WHEN THE DOOR IS FULLY OPEN.

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
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San Ramon, CA 94582
TEL (913) 961-1658

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582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

GENERAL INFORMATION

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.

2E001

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWG\RIo Vista\Inc 2\2347.50 - RV - 2E000 - General Information.dwg
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FILE LOCATION:

LUMINAIRE SCHEDULE

FIXTURE TAG KEY: G = GROUND MOUNT; L = LINEAR FIXTURES THAT HAVE VARIABLE LENGTH ON THE PROJECT; P = PENDANT MOUNTED; R = RECESSED; S = SURFACE MOUNTED;
T = TRACK OR TRACK HEAD; W = WALL MOUNTED; X = EXIT SIGNS; Y = POLE MOUNTED; Z = EXTERIOR - TO PRECEDE OTHER FIXTURE TAGS - E.G. ZW1 WOULD BE AN EXTERIOR WALL MOUNTED FIXTURE

FIXTURE TAG	INPUT WATTS (W)	LIGHT SOURCE	COLOR TEMP (K)	CRI	OUTPUT (LUMENS)	EFFICACY (LPW)	LED DRIVER OR BALLAST	VOLTS (V)	DESCRIPTION	MANUFACTURER	LOCATION	WEIGHT (LBS)	REMARKS
L1	8.1 /FT	LED	4000	80	954 /FT	118 /FT	INTEGRAL 0-10V DIMMING DRIVER	120	4" WIDE LINEAR DIRECT/INDIRECT LED PENDANT. WHITE FINISH. TOP GLOW AND BOTTOM GLOW DIFFUSERS. FLAT ENDCAPS. T6 EXTRUDED ALUMINUM HOUSING. INTEGRAL OCCUPANCY SENSOR AND DAYLIGHT SENSOR.	FINELITE HP4 SERIES HP-4-P-ID-__-S-B-840-TG-BG-96LG-120-SC-FC-10%-FA50-Cx-FE-SW-W601 OR APPROVED EQUAL	THROUGHOUT	3.4 /FT	1. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF. 2. PROVIDE LENGTHS AS SHOWN ON PLANS. 3. SEE DETAILS 5 & 7/2E401.
L1E	8.1 /FT	LED	4000	80	954 /FT	118 /FT	INTEGRAL 0-10V DIMMING DRIVER	120	SIMILAR TO TYPE "L1" EXCEPT WITH UL LISTED EMERGENGY BATTERY PACK WITH MINIMUM 90 MINUTE RUNTIME.	FINELITE HP4 SERIES HP-4-P-ID-__-S-B-840-TG-BG-96LG-120-SC-FC-10%-FA50-Cx-FE-SW-LG D18W-W601 OR APPROVED EQUAL	THROUGHOUT	3.4 /FT	1. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF. 2. PROVIDE LENGTHS AS SHOWN ON PLANS. 3. SEE DETAILS 5 & 7/2E401.
L2	14.2	LED	4000	80	1440	102	INTEGRAL 0-10V DIMMING DRIVER	120	2'L X 4" WIDE RECESSED LINEAR DIRECT LED. WHITE FINISH. TOP GLOW AND BOTTOM GLOW DIFFUSERS. FLAT ENDCAPS. T6 EXTRUDED ALUMINUM HOUSING. INTEGRAL OCCUPANCY SENSOR AND DAYLIGHT SENSOR.	FINELITE HP4 SERIES HP-4-R-D-2'-H-840-BG-96LG-120-SC-FC-10%-FA50-Cx-FE-SW-W601 OR APPROVED EQUAL	THROUGHOUT	6.8	1. MOUNT BOTTOM OF FIXTURE AT CEILING HEIGHT. 2. PROVIDE LENGTHS AS SHOWN ON PLANS. 3. SEE DETAIL 6/2E401.
L3	18.6	LED	4000	80	1852	100	INTEGRAL 0-10V DIMMING DRIVER	120	2'L X 4" WIDE RECESSED LINEAR DIRECT LED. WHITE FINISH. TOP GLOW AND BOTTOM GLOW DIFFUSERS. FLAT ENDCAPS. T6 EXTRUDED ALUMINUM HOUSING. INTEGRAL OCCUPANCY SENSOR AND DAYLIGHT SENSOR.	FINELITE HP4 SERIES HP-4-R-D-2'-V-840-BG-96LG-120-SC-FC-10%-FA50-Cx-FE-SW-W601 OR APPROVED EQUAL	THROUGHOUT	6.8	1. MOUNT BOTTOM OF FIXTURE AT CEILING HEIGHT. 2. PROVIDE LENGTHS AS SHOWN ON PLANS. 3. SEE DETAIL 6/2E401.
X1	5.0	LED	N/A	N/A	N/A	N/A	ELECTRONIC, INTEGRAL	UNIVERSAL	EDGE-LIT LED EXIT SIGN. MIRRORED ACRYLIC PANEL WITH GREEN LETTERING. BRUSHED ALUMINUM HOUSING. INTEGRAL UL LISTED EMERGENCY BATTERY PACK WITH MINIMUM 90 MIN RUNTIME.	EMERGILITE PRESTIGE X40 SERIES LSNX-_-N-G-M-_-AD OR APPROVED EQUAL	THROUGHOUT	3	1. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF. 2. PROVIDE MOUNTING HARDWARE, QUANTITY/DIRECTION OF ARROWS, AND QUANTITY OF FACES AS INDICATED ON PLANS.
Y1	105.0	LED	4000	80	16313	155.4	ELECTRONIC, INTEGRAL	120	LED POLE WITH DUAL HEAD AND INTEGRAL MOTION SENSOR	GARDCO OPF-S-A05-840-T4M-AR1-120-BL50-L2-EM OR APPROVED EQUAL	OUTDOOR	14 / HEAD	1. POLE LIGHT SHALL BE DUAL LED HEAD, 16'H ALUMINUM POLE, 5'H FLUSH CONCRETE BASE. 2. ASTRONOMICAL TIME CLOCK LOCATED IN ADMIN BLDG UTILITY CLOSET. SET FROM DUSK TO DAWN. 3 WITH INTEGRAL PIR MOTION SENSOR. SET TO 50% DEFAULT OUTPUT, 100% OUTPUT WHEN MOTION IS DETECTED. 4. BUG RATING B3-U0-G3. 5. TYPE 4 MEDIUM DISTRIBUTION.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

SPACE/FUNCTION	LIGHTING CONTROL SYSTEM				
	NETWORKED CONTROLS				
INTERIOR LIGHTING	LOCALIZED MANUAL CONTROL OVERRIDE SWITCH	AUTO-ON & AUTO OFF OCCUPANCY SENSING WITH TIME DELAY:	MANUAL ON & AUTO-OFF VACANCY SENSING WITH TIME DELAY:	DAYLIGHT HARVESTING (FC SET POINT)	DEMAND RESPONSE LIGHTING POWER REDUCTION
UTILITY ROOM	ON/OFF. DIMMING.				DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
JANITOR ROOM, STORAGE	ON/OFF.		15 MIN		DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
AV ROOM	ON/OFF. DIMMING.		30 MIN		DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
AV ROOM (WITH PHOTOCELL)	ON/OFF. DIMMING.		30 MIN	DIM DOWN TO 30 FC	DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
RESTROOM	ON/OFF. DIMMING.		30 MIN		DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
VESTIBULE, CORRIDOR, HALLWAY	ON/OFF. DIMMING.	15 MIN, DIM DOWN TO 50% 30 MIN, OFF			DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
VESTIBULE, CORRIDOR, HALLWAY (WITH PHOTOCELL)	ON/OFF. DIMMING.	15 MIN, DIM DOWN TO 50% 30 MIN, OFF		DIM DOWN TO 15 FC	DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
CLASSROOM	ON/OFF. DIMMING.		30 MIN		DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
CLASSROOM (WITH PHOTOCELL)	ON/OFF. DIMMING.		30 MIN	DIM DOWN TO 30 FC	DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
OFFICE LOBBY	ON/OFF. DIMMING.	30 MIN			DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
OFFICE LOBBY (WITH PHOTOCELL)	ON/OFF. DIMMING.	30 MIN		DIM DOWN TO 30 FC	DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
COPIER	ON/OFF. DIMMING.		30 MIN		DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
COPIER (WITH PHOTOCELL)	ON/OFF. DIMMING.		30 MIN	DIM DOWN TO 30 FC	DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
OFFICE	ON/OFF. DIMMING.		30 MIN		DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL
OFFICE (WITH PHOTOCELL)	ON/OFF. DIMMING.		30 MIN	DIM DOWN TO 30 FC	DIM DOWN TO 75% UPON RECEIVING DEMAND RESPOND SIGNAL

GENERAL NOTES:
1. DEMAND RESPONSE CONTROLS CAPABILITY PROVIDED VIA CENTRALIZED PC CONTROL WITH CAPABILITY TO REDUCE TOTAL BUILDING LIGHTING POWER BY MIN 15%.
2. GENERAL LIGHTING POWER REDUCED BY MIN 65% WHEN DAYLIT ILLUMINANCE REACHES 150% OF DESIGN ILLUMINANCE.
3. COORDINATE WITH MANUFACTURER TO FINALIZE PHOTOSENSOR MOUNTING AND LOCATION SO THAT SENSORS PROPERLY DETECT FOOT-CANDLE LEVELS AT WORK PLANE.
4. PHOTOSENSOR SHALL DIM LIGHTING DOWN AS INDICATED IN DAYLIGHT HARVESTING COLUMN (AT WORK PLANE), UON ABOVE. SEE DAYLIGHT HARVESTING COLUMN FOR TARGET DESIGN FOOT-CANDLE LEVELS IN DAYLIT AREAS.
5. WATTSTOPPER DIGITAL LIGHTING MANAGEMENT (FOR INTERIOR).
6. LIGHTING CONTROL SENSORS AND DIMMING SETTINGS SHALL BE CALIBRATED AFTER FURNITURE AND FINAL FINISHES ARE INSTALLED FOR PROPER OPERATIONAL CONDITIONS.
7. LIGHTING CONTROL SYSTEM SHALL HAVE CAPABILITY TO INTERFACE WITH BAS VIA WATTSTOPPER DLM'S NETWORK BRIDGE.
8. DRIVERS AND CONTROL INTERFACE DEVICES SHALL BE CAPABLE OF DIMMING LIGHTING DOWN VIA PHOTOSENSOR. FOOT-CANDLE SETTINGS AS INDICATED IN SCHEDULE.
9. DURING NIGHT TIME HOURS, LIGHTING SHALL DIM DOWN FROM DAYTIME TARGET LEVELS AS INDICATED ABOVE. MANUAL OVERRIDE WILL ALLOW DIM UP/DOWN.
10. NO OUTDOOR LIGHTING IN PROJECT SCOPE.
11. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS OF SWITCHES.
12. PROVIDE TYPED OR ENGRAVED LABEL AT FACEPLATE TO IDENTIFY ROOM/LOCATION FOR ALL WALL LIGHT SWITCHES.
13. FINAL SELECTION AND LOCATIONS OF MANUAL CONTROL DEVICES (WALL MOUNT BUTTON CONTROL SWITCHES WITH DIMMER) SHALL BE APPROVED BY ARCHITECT AND ENGINEER. SUBMIT FOR APPROVAL.
14. OCCUPANCY SENSOR SHALL DETECT OCCUPANT. UPON NO DETECTION, TIME DELAY SET TO AUTOMATIC OFF. MANUAL CONTROL OVERRIDE SHALL ALLOW FOR DIM UP/DOWN. MANUAL CONTROL SWITCH SHALL PROVIDE ALL ON/OFF.
15. VACANCY SENSOR SETTING = MANUAL ON/AUTO OFF. OCCUPANCY SENSOR SETTINGS = AUTO ON/AUTO OFF.
16. COORDINATE FINAL SEQUENCE OF OPERATIONS, OVERRIDE SCHEDULES, AND TIME DELAY SETTINGS WITH DISTRICT. PROVIDE MANUFACTURER SEQUENCE OF OPERATION FOR APPROVAL.
17. SEE DEMAND RESPONSE LIGHTING POWER REDUCTION COLUMN FOR TARGET REDUCTION REQUIREMENTS.

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St, Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
SCHEDULES

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E002

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\Inc 2\23347.50 - RV - 2E000 - General Information.dwg
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FILE LOCATION:

EQUIPMENT SCHEDULE

EQUIPMENT DESIGNATION	EQUIPMENT TYPE	LOCATION	PACKAGE UNITS MCA	PACKAGE UNITS MOCP	AMPS	HORSEPOWER	KVA	VOLTAGE/PHASE, QTY WIRES	CONNECTION TO GAS	INTERLOCK WITH	MOTOR STARTERS TYPE	MOTOR STARTERS STARTER NEMA SIZE	MOTOR STARTERS AUXILIARY DEVICES IN STARTERS	CONTROL DEVICES	CONNECTION TO FA PANEL	CONTROL WIRING AS REQUIRED	FUSED DISCONNECT SWITCH	LOCKOUT TOGGLE SWITCH	PANEL AND CIRCUIT NO	CONDUIT (IN)	POWER WIRING	REMARKS
EF-3-306	EXHAUST FAN	BLDG 3		20			0.019	120/1, 2W										E		3/4	(2) #12 + (1) #12	CONTROLLED VIA LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.
EF-8-807	EXHAUST FAN	BLDG 8		20			0.019	120/1, 2W										E		3/4	(2) #12 + (1) #12	CONTROLLED VIA LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.
EF-9-902	EXHAUST FAN	BLDG 9		20			0.019	120/1, 2W										E		3/4	(2) #12 + (1) #12	CONTROLLED VIA LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.
AC-11-C2	AIR CONDITIONING	BLDG 11	27.0	40				208/1, 3W									E			3/4	(3) #8 + (1) #10	
AC-12-C1	AIR CONDITIONING	BLDG 12	26.0	30				208/3, 3W									E			3/4	(3) #8 + (1) #10	
F&CC-10-C2	GAS FIRED FURNACE	BLDG 10	18.2	20				120/1, 2W										E		3/4	(2) #10 + (1) #10	
F&CC-10-C3	GAS FIRED FURNACE	BLDG 10	18.2	20				120/1, 2W										E		3/4	(2) #10 + (1) #10	
F&CC-10-C4	GAS FIRED FURNACE	BLDG 10	18.2	20				120/1, 2W										E		3/4	(2) #10 + (1) #10	
F&CC-10-C5	GAS FIRED FURNACE	BLDG 10	18.2	20				120/1, 2W										E		3/4	(2) #10 + (1) #10	
F&CC-10-C6	GAS FIRED FURNACE	BLDG 10	18.2	20				120/1, 2W										E		3/4	(2) #10 + (1) #10	
CU-10-C2	CONDENSING UNIT	BLDG 10	8.4	20				480/3, 3W									E			3/4	(3) #12 + (1) #12	
CU-10-C3	CONDENSING UNIT	BLDG 10	8.4	20				480/3, 3W									E			3/4	(3) #12 + (1) #12	
CU-10-C4	CONDENSING UNIT	BLDG 10	8.4	20				480/3, 3W									E			3/4	(3) #12 + (1) #12	
CU-10-C5	CONDENSING UNIT	BLDG 10	8.4	20				480/3, 3W									E			3/4	(3) #12 + (1) #12	
CU-10-C6	CONDENSING UNIT	BLDG 10	8.4	20				480/3, 3W									E			3/4	(3) #12 + (1) #12	

EQUIPMENT SCHEDULE ABBREVIATIONS:

AC	AUXILIARY CONTACTS, 1 NC, 1 NO	CNTR	CONTRACTOR	HOA	3 - POSITION SELECTOR SWITCH (HAND/OFF/AUTO)	NC	NORMALLY CLOSED	SP	SUPERVISORY ALARM PANEL
AC2	AUXILIARY CONTACTS, 2 NC, 2 NO	CR	CONTROL RELAY			NO	NORMALLY OPEN	SSA	3 - POSITION SELECTOR SWITCH (START/STOP/AUTO) SPRING
B	FURNISHED BY OWNER & INSTALLED BY ELECTRICAL CONTRACTOR	CPT	CONTROL POWER TRANSFORMER	M	FURNISHED BY MECHANICAL & INSTALLED BY ELECTRICAL CONTRACTOR	O	FURNISHED & INSTALLED BY OTHER DIVISIONS		RELEASE TYPE TO AUTO POSITION
CMCP	COMBINATION MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR	E	FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	OL	OVERLOAD RELAY	SS	ELECTRONIC SOFT STARTER
CMFS	COMBINATION MOTOR STARTER WITH FUSED SWITCH	EMS	ENERGY MANAGEMENT SYSTEM	MOCP	MAXIMUM OVER CURRENT PROTECTION	PL	LED PILOT LIGHT RED ON, GREEN OFF	TS	TIME SWITCH
		EPO	EMERGENCY POWER OFF BUTTON	MAN	MANUAL STARTER (<10HP)	PS	START/STOP PUSH BUTTON	VFD	VARIABLE FREQUENCY DRIVE
		FA	FIRE ALARM	MS	MAGNETIC STARTER	SD	SMOKE DETECTOR	WP	WEATHERPROOF
						SM	ON/OFF TOGGLE DISCONNECT @ MOTOR		

NOTES:
1. EQUIPMENT SCHEDULE ABBREVIATIONS DO NOT APPLY TO EQUIPMENT DESIGNATION COLUMN.
2. VERIFY CB/FUSE AND WIRING REQUIREMENTS WITH SUBMITTALS PRIOR TO WIRING UNITS.
3. PROVIDE FUSED DISCONNECTS FOR ALL NEW MECHANICAL UNITS.

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
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KMM Services Inc.
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LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

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SHEET TITLE
SCHEDULES

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E003

DATE: AUGUST 28, 2024

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GENERAL NOTES

A. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

B. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

C. SIZE FUSES FOR ALL FUSED SWITCHES PER SUPPLIED EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

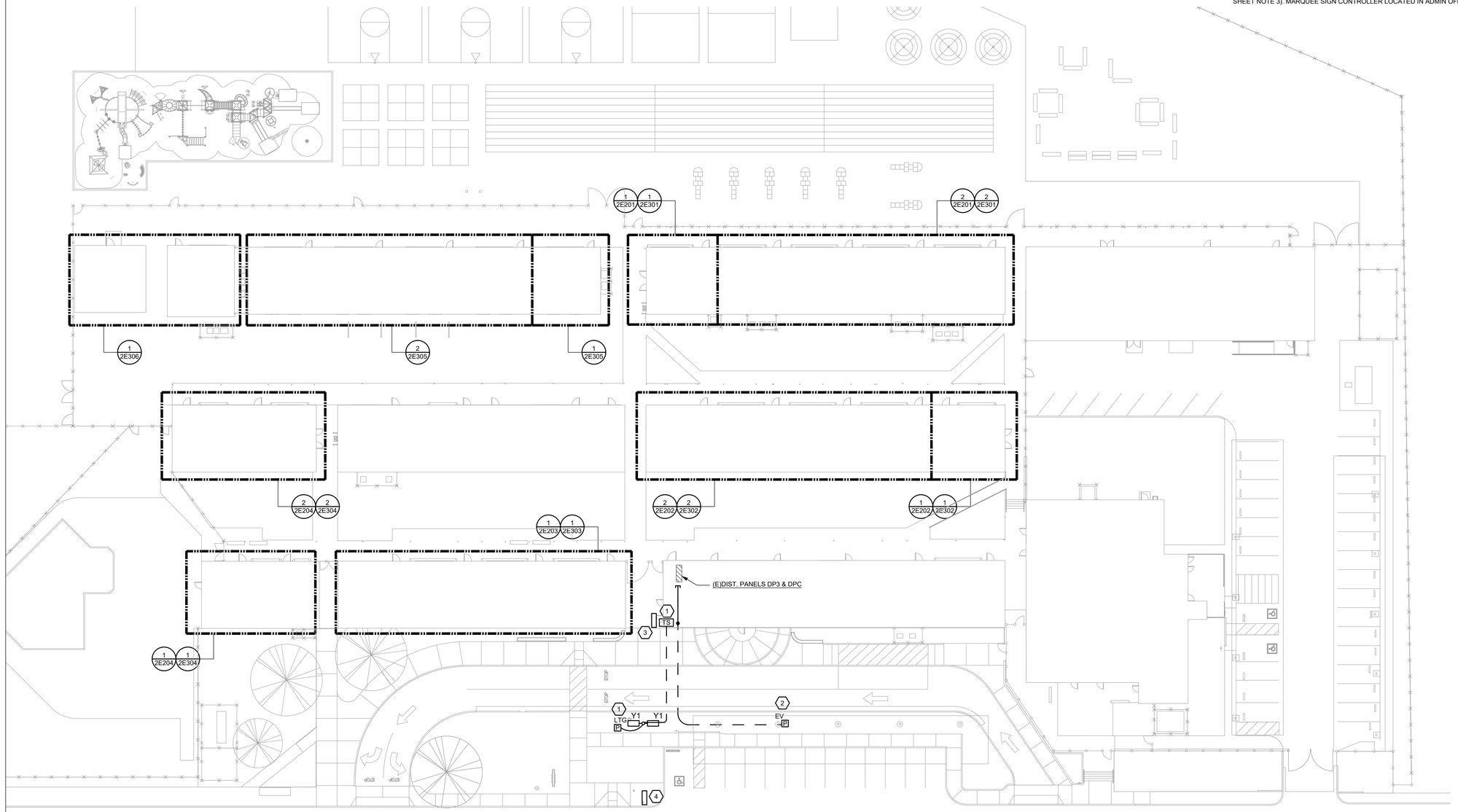
D. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES SHALL BE SIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

E. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

F. OUTDOOR ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH NEMA 3R RATED ENCLOSURES.

(#) SHEET NOTES

1. PROVIDE NEW POLE LIGHT. CONNECT TO SPARE 120V CIRCUIT FROM ADMIN BLDG. PROVIDE NEW TIME CLOCK IN ADMIN BUILDING UTILITY CLOSET. ROUTE (1) 1"C AND (1) 1-1/2"C SPARE FROM POLE TO ADMIN BLDG.
2. ROUTE (4) 1-1/2" SPARE CONDUITS FOR FUTURE EV CHARGERS FROM NEW PULL BOX ADJACENT TO PARKING SPACES TO ADMIN BLDG ELECTRICAL ROOM. (E) DISTRIBUTION PANEL IN ELEC RM WILL FEED (F) EV CHARGERS.
3. DEMOLISH POWER CONNECTION BACK TO SOURCE FOR EXISTING MARQUEE SIGN. SALVAGE AND RETURN EXISTING MARQUEE SIGN TO OWNER. REUSE EXISTING CIRCUIT FOR NEW MARQUEE SIGN (SEE SHEET NOTE 4).
4. PROVIDE POWER CONNECTION FOR NEW MARQUEE SIGN. REUSE EXISTING CIRCUIT (SEE SHEET NOTE 3). MARQUEE SIGN CONTROLLER LOCATED IN ADMIN OFFICE.



1 SITE PLAN
1" = 20'-0"

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
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San Ramon, CA 94582
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TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
SITE PLAN

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

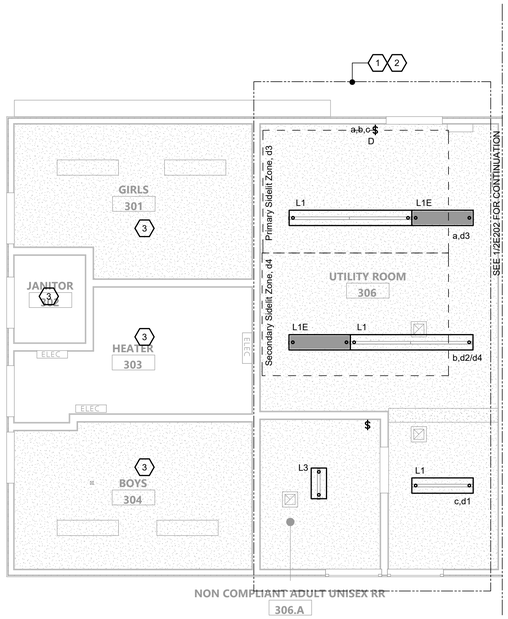
SHEET NO.
2E100

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524105_Drawings\01_DWG's\Rio Vista\Inc 2\2347.50 - RV - 2E100 - Site Plan.dwg
LAST SAVED ON: 9/05/24 at 1:03pm, PLOTTED ON: 9/24/24 at 8:17pm

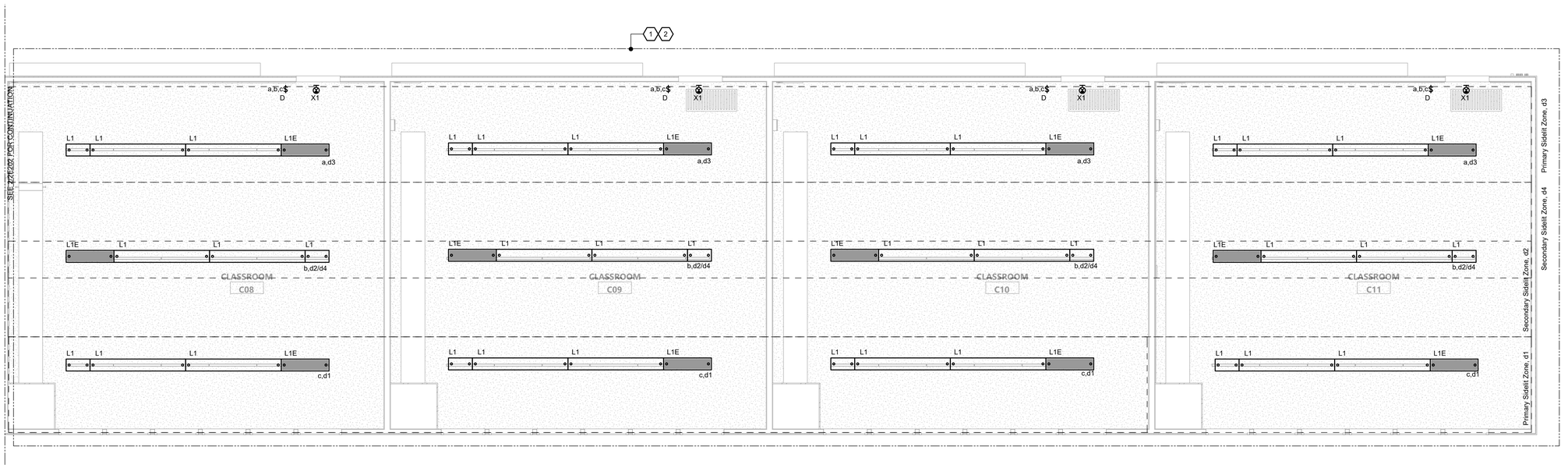
FILE LOCATION:

DATE PLOTTED:



1 BLDG 3 - LIGHTING PLAN

1/4" = 1'-0"



2 BLDG 3 - LIGHTING PLAN

1/4" = 1'-0"

SHEET NOTES

1. REMOVE EXISTING LIGHTING AND EXISTING LIGHTING CONTROLS. MAINTAIN EXISTING CIRCUITRY FOR EXTENSION AND RECONNECTION TO NEW LIGHT FIXTURES.
2. REPLACE DEMOLISHED LIGHTING AND LIGHTING CONTROLS WITH NEW AS SHOWN. CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUIT(S) SPARED FROM DEMOLITION WORK. AVOID OVERLOAD CONDITION SO THAT THE TOTAL CAPACITY OF THE EXISTING 20A/1P CIRCUIT BREAKER SHALL NOT EXCEED 80% OF RATING.
3. EXISTING LIGHTING AND LIGHTING CONTROLS TO REMAIN, THIS ROOM.

GENERAL DEMOLITION NOTES

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL LUMINAIRES, LIGHTING CONTROL DEVICES, WIRING, AND CONDUITS. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

I. ANY ELECTRICAL WORK, WHICH WILL INTERFERE WITH THE NORMAL USE OF THE BUILDING IN ANY MANNER, SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE.

GENERAL NOTES

A. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF ALL LIGHT FIXTURES, EXPOSED CONTROL DEVICES AND LIGHT SWITCHES. VERIFY CEILING TYPE WITH ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. COORDINATE FIXTURE TYPES WITH MOUNTING SURFACE PRIOR TO ORDERING.

B. PENDANT FIXTURES SHALL BE FREE TO SWING A MINIMUM OF 45 DEGREES FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS, OTHERWISE PROVIDE SEISMIC RESTRAINT.

C. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.

D. PROVIDE U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.

E. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.

F. MOUNT WALL MOUNTED OCCUPANCY SENSORS AT 8'-0" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.

G. CIRCUIT ALL LIGHT FIXTURES ON THIS SHEET TO EXISTING LIGHTING CIRCUIT, UNLESS OTHERWISE NOTED.

H. LINEAR FIXTURES WITH INTEGRAL SENSORS. SEE LUMINAIRE SCHEDULE.

I. EXIT SIGNS SHALL BE UNSWITCHED.

J. SEE SHEET 1E402 FOR LIGHT FIXTURE MOUNTING DETAILS.

K. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

L. ALL FINISHES SHALL BE WHITE. COORDINATE FINAL FINISHES WITH ARCHITECT.

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
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CONSULTANTS

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CARROLL ENGINEERING
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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

LIGHTING PLANS

INCREMENT: INC. 2

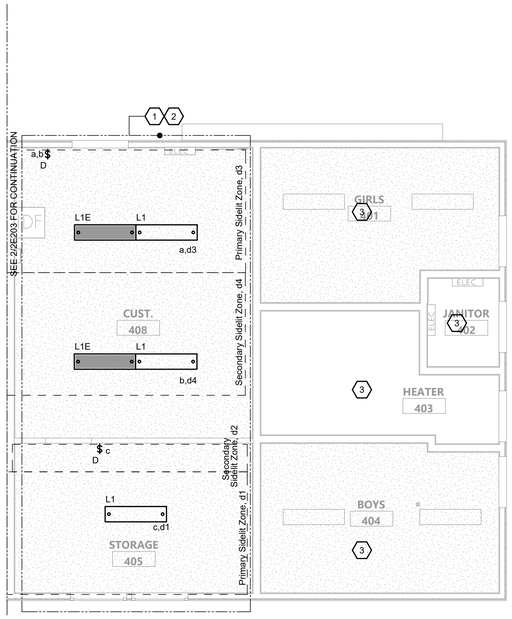
DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.

2E201

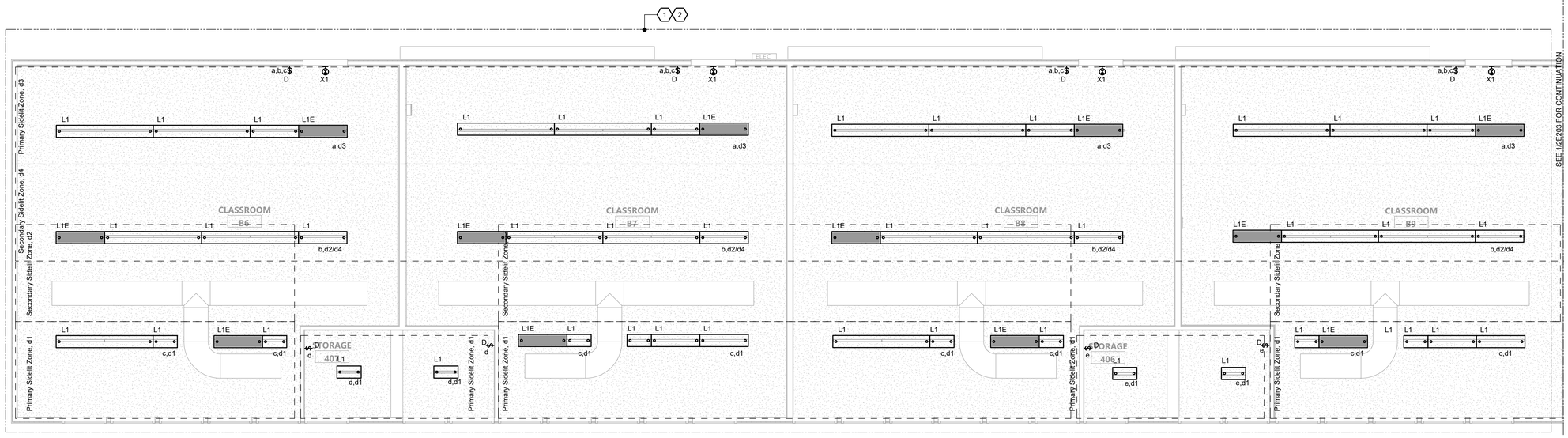
DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWG\at\Rio Vista\inc 2\2347.50 - RV - 2E200 - Lighting Plan.dwg
LAST SAVED ON: 9/24/24 at 6:44pm, PLOTTED ON: 9/24/24 at 8:18pm
FILE LOCATION:
DATE PLOTTED:



1 BLDG 4 - LIGHTING PLAN

1/4" = 1'-0"



2 BLDG 4 - LIGHTING PLAN

1/4" = 1'-0"

SHEET NOTES

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3. BOTTOM OF LOW LEVEL EXIT SIGN SHALL BE 6'-8"AFF, LOCATED ADJACENT TO DOOR, AND NO LESS THAN 4" FROM DOOR FRAME. BOTTOM OF LOW LEVEL EXIT SIGN SHALL BE 2'-6"AFF, LOCATED ADJACENT TO DOOR, AND NO LESS THAN 4" FROM DOOR FRAME.
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991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
LIGHTING PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E202

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\Inc 2\2347.50 - RV - 2E200 - Lighting Plan.dwg
LAST SAVED ON: 9/24/24 at 8:44pm, PLOTTED ON: 9/24/24 at 8:18pm

DATE PLOTTED:

FILE LOCATION:

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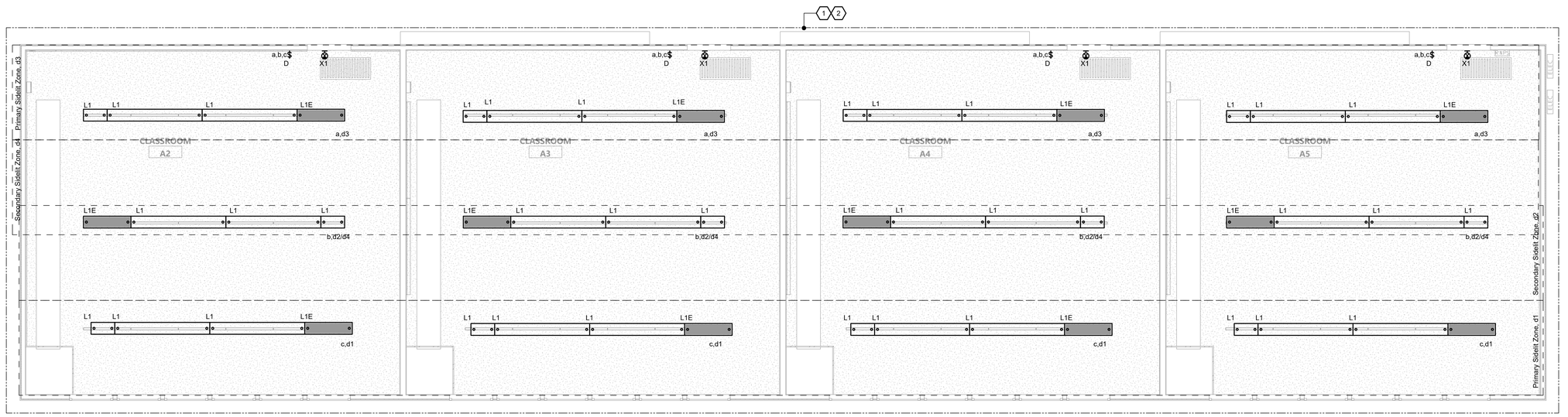

1 **BLDG 6 - LIGHTING PLAN**
1/4" = 1'-0"

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3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
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Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

#		

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

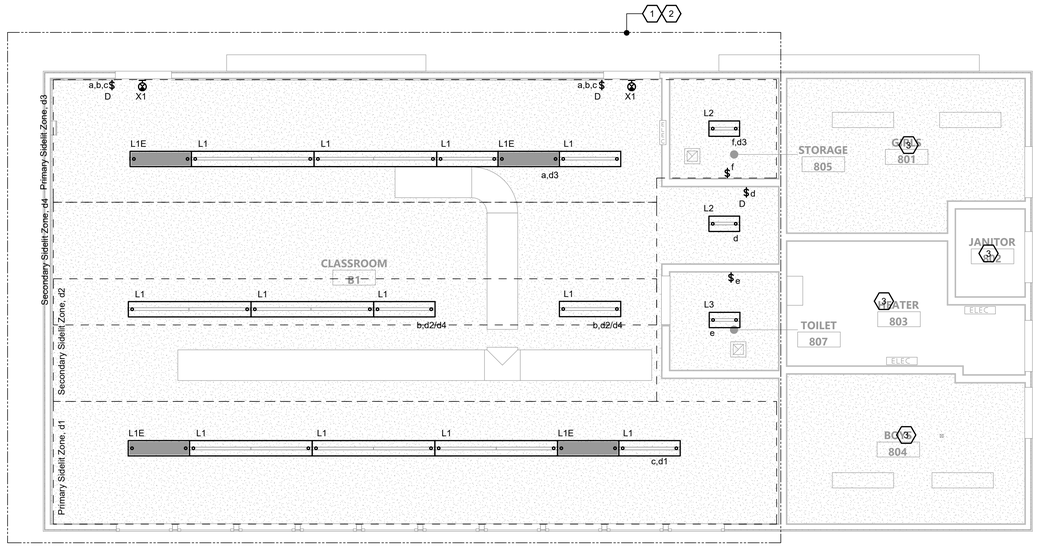
SHEET TITLE
LIGHTING PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

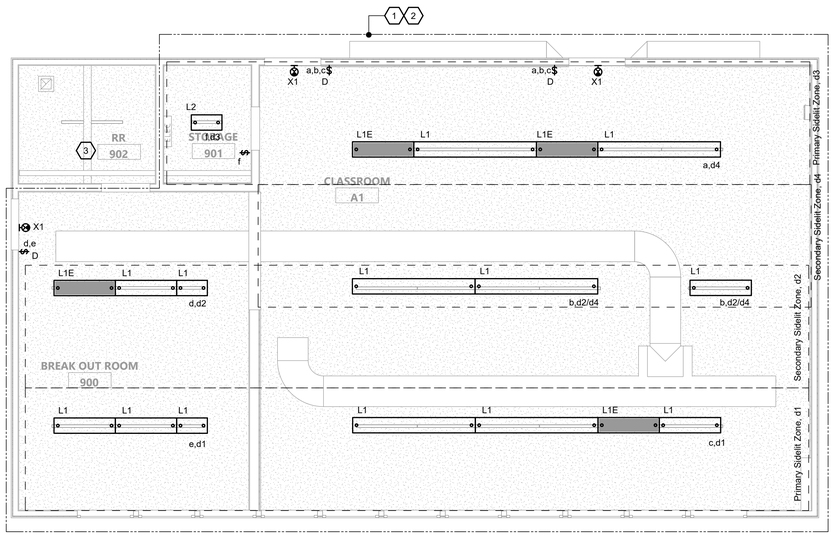
SHEET NO.
2E203

DATE: AUGUST 28, 2024



1 BLDG 9 - LIGHTING PLAN

1/4" = 1'-0"



2 BLDG 8 - LIGHTING PLAN

1/4" = 1'-0"

SHEET NOTES

1. REMOVE EXISTING LIGHTING AND EXISTING LIGHTING CONTROLS. MAINTAIN EXISTING CIRCUITRY FOR EXTENSION AND RECONNECTION TO NEW LIGHT FIXTURES.
2. REPLACE DEMOLISHED LIGHTING AND LIGHTING CONTROLS WITH NEW AS SHOWN. CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUIT(S) SPARED FROM DEMOLITION WORK. AVOID OVERLOAD CONDITION SO THAT THE TOTAL CAPACITY OF THE EXISTING 20A/1P CIRCUIT BREAKER SHALL NOT EXCEED 80% OF RATING.
3. BOTTOM OF LOW LEVEL EXIT SIGN SHALL BE 6'-8"AFF, LOCATED ADJACENT TO DOOR, AND NO LESS THAN 4" FROM DOOR FRAME. BOTTOM OF LOW LEVEL EXIT SIGN SHALL BE 2'-6"AFF, LOCATED ADJACENT TO DOOR, AND NO LESS THAN 4" FROM DOOR FRAME.
4. EXISTING LIGHTING AND LIGHTING CONTROLS TO REMAIN, THIS ROOM.

GENERAL DEMOLITION NOTES

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL LUMINAIRES, LIGHTING CONTROL DEVICES, WIRING, AND CONDUITS. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

I. ANY ELECTRICAL WORK, WHICH WILL INTERFERE WITH THE NORMAL USE OF THE BUILDING IN ANY MANNER, SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE.

GENERAL NOTES

A. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF ALL LIGHT FIXTURES, EXPOSED CONTROL DEVICES AND LIGHT SWITCHES. VERIFY CEILING TYPE WITH ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. COORDINATE FIXTURE TYPES WITH MOUNTING SURFACE PRIOR TO ORDERING.

B. PENDANT FIXTURES SHALL BE FREE TO SWING A MINIMUM OF 45 DEGREES FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS, OTHERWISE PROVIDE SEISMIC RESTRAINT.

C. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.

D. PROVIDE U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.

E. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.

F. MOUNT WALL MOUNTED OCCUPANCY SENSORS AT 8'-0" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.

G. CIRCUIT ALL LIGHT FIXTURES ON THIS SHEET TO EXISTING LIGHTING CIRCUIT, UNLESS OTHERWISE NOTED.

H. LINEAR FIXTURES WITH INTEGRAL SENSORS. SEE LUMINAIRE SCHEDULE.

I. EXIT SIGNS SHALL BE UNSWITCHED.

J. SEE SHEET 1E402 FOR LIGHT FIXTURE MOUNTING DETAILS.

K. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

L. ALL FINISHES SHALL BE WHITE. COORDINATE FINAL FINISHES WITH ARCHITECT.

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
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SHEET TITLE

LIGHTING PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.

2E204

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\inc 2\2347.50 - RV - 2E200 - Lighting Plan.dwg
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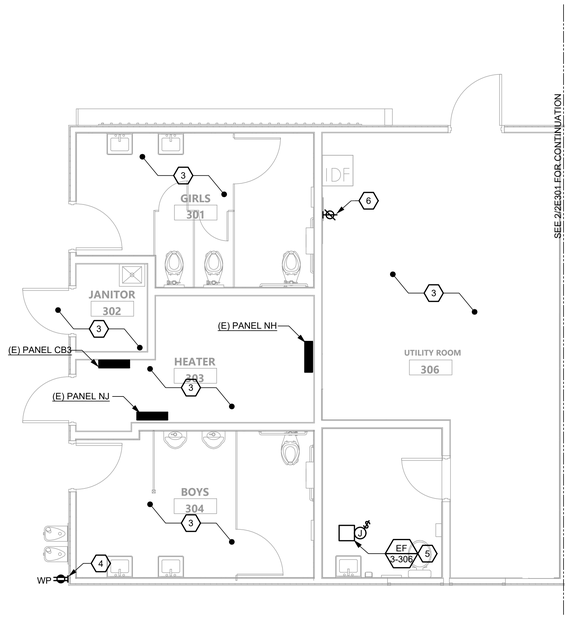
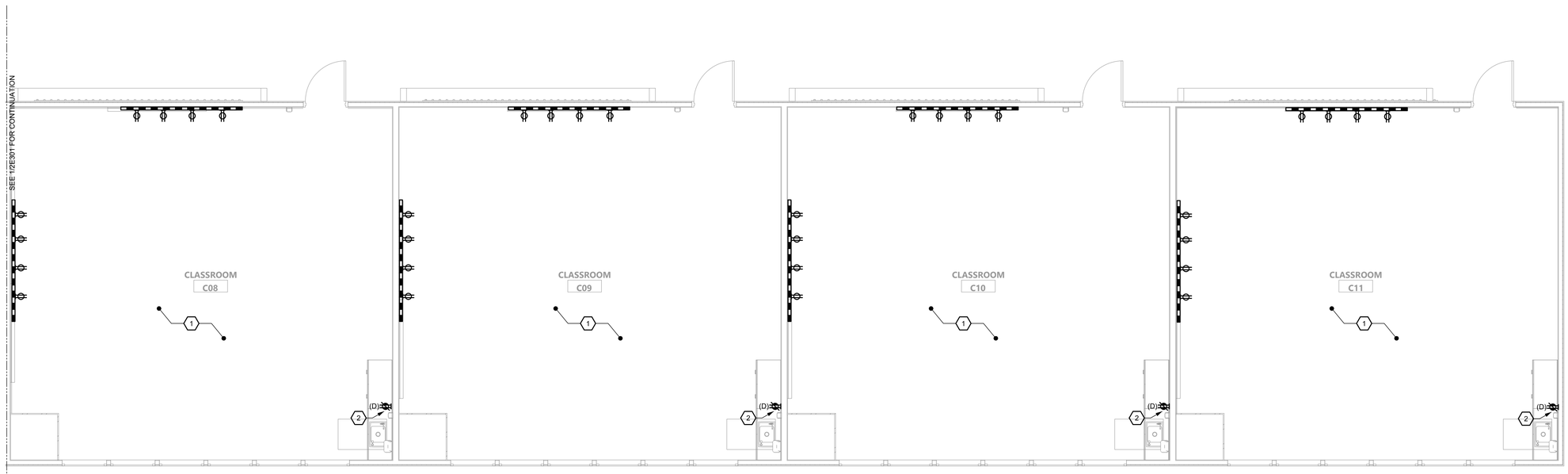
FILE LOCATION:

DATE PLOTTED:



1 BLDG 3 - POWER & SIGNAL PLAN

1/4" = 1'-0"



2 BLDG 3 - POWER & SIGNAL PLAN

1/4" = 1'-0"

SHEET NOTES

1. DISCONNECT AND REINSTALL EXISTING WALL MOUNT ELECTRICAL DEVICES AT SAME LOCATION, UNLESS OTHERWISE NOTED. INTERCEPT AND EXTEND WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALL. EXISTING DEVICES SHOWN ON PLAN FOR REFERENCE ONLY. ANY EXISTING ELECTRICAL DEVICES THAT ARE NO LONGER IN WORKING CONDITION SHALL BE REPLACED-IN-KIND. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.
2. REMOVE EXISTING ELECTRICAL DEVICES AND REPLACE WITH NEW AS SHOWN. NEW CIRCUITS SHOWN ON PLAN HOMERUN TO NEAREST PANEL, UNLESS OTHERWISE NOTED.
3. EXISTING TO REMAIN, THIS ROOM.
4. CONNECT ALL NEW GENERAL PURPOSE RECEPTACLES, THIS BUILDING, TO NEAREST AVAILABLE 120V 20A SPARE CIRCUIT.
5. CONNECT TO SAME LIGHTING CIRCUIT, THIS ROOM. LIGHTING AND EXHAUST FAN SHALL BE CONTROLLED BY LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.
6. L6-20R. PROVIDE DEDICATED 208V 20A CIRCUIT FOR IDF. CONNECT TO NEAREST AVAILABLE SPARE CIRCUIT VIA 20A/2P BREAKER IN PANEL. FOR NEW BREAKERS, MATCH EXISTING MAKE, MODEL, AND AIC RATING.

GENERAL DEMOLITION NOTES

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

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GENERAL NOTES

A. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

B. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

C. SIZE FUSES FOR ALL FUSED SWITCHES PER SUPPLIED EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

D. REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT WIRING, CONDUIT, AND BREAKER SIZES. BREAKER SIZES SHOWN ON PANEL SCHEDULES SUPERSEDES MOCP SIZES SHOWN ON EQUIPMENT SCHEDULE

E. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES SHALL BE SIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

F. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

G. OUTDOOR ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH NEMA 3R RATED ENCLOSURES.

H. EXISTING PANELS SHOWN FOR REFERENCE ONLY AND BASED ON AS BUILT DOCUMENTATION AND PARTIAL SITE SURFACE INVESTIGATION. FIELD VERIFY EXACT PANEL LOCATIONS PRIOR TO COMMENCEMENT OF WORK.

I. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

J. ALL FINISHES SHALL BE WHITE. COORDINATE FINAL FINISHES WITH ARCHITECT.

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SAN JOSE, CA 95126
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SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E301

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\Inc 2\2347.50 - RV - 2E300 - Power Plan.dwg
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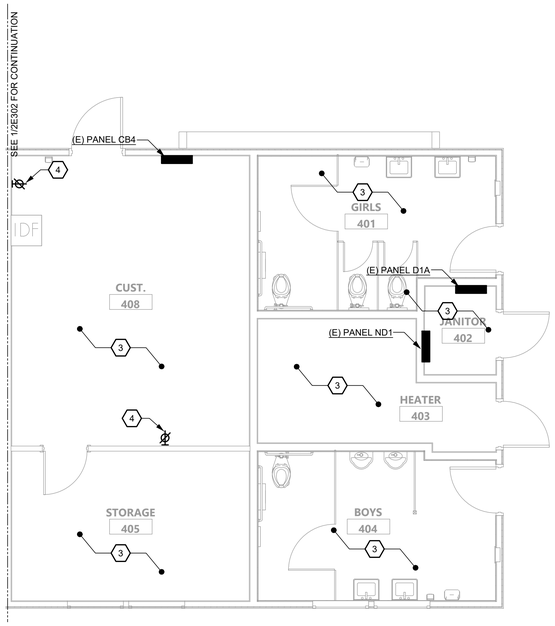
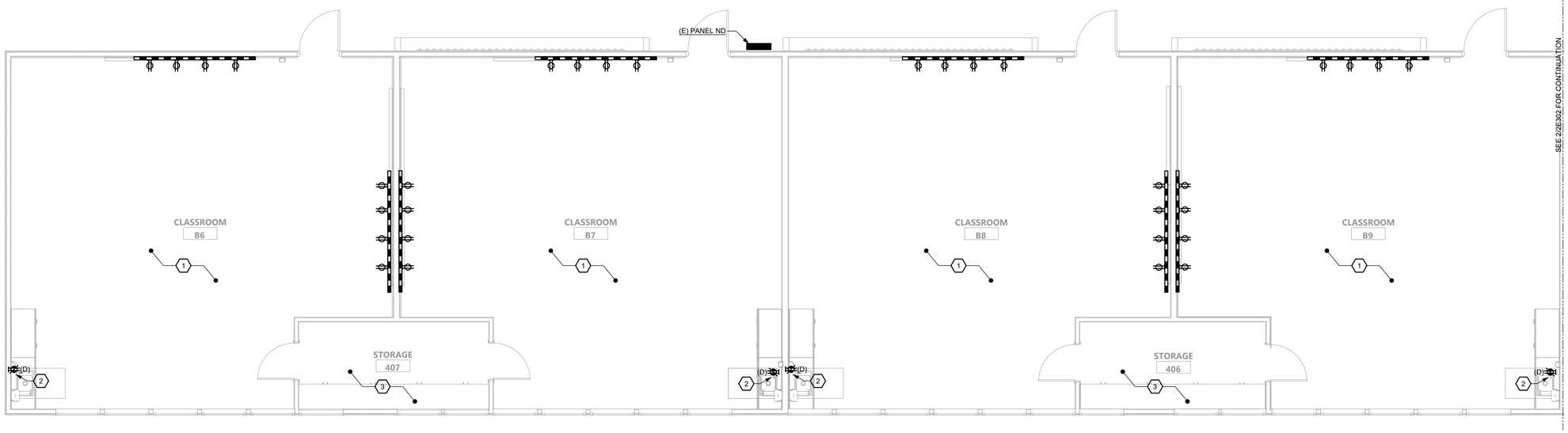
DATE PLOTTED:



1 BLDG 4 - POWER & SIGNAL PLAN

1/4" = 1'-0"



2 BLDG 4 - POWER & SIGNAL PLAN

1/4" = 1'-0"

SHEET NOTES

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2. REMOVE EXISTING ELECTRICAL DEVICES AND REPLACE WITH NEW AS SHOWN. NEW CIRCUITS SHOWN ON PLAN HOMERUN TO NEAREST PANEL, UNLESS OTHERWISE NOTED.
3. EXISTING TO REMAIN, THIS ROOM.
4. L6-20R. PROVIDE DEDICATED 208V 20A CIRCUIT FOR IDF. CONNECT TO NEAREST AVAILABLE SPARE CIRCUIT VIA 20A/2P BREAKER IN PANEL. FOR NEW BREAKERS, MATCH EXISTING MAKE, MODEL, AND AIC RATING.

GENERAL DEMOLITION NOTES

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

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GENERAL NOTES

A. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

B. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

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G. OUTDOOR ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH NEMA 3R RATED ENCLOSURES.

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I. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

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REVISIONS

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E302

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524105_Drawings\01_DWG's\Rio Vista\Inc 2\2347.50 - RV - 2E300 - Power Plan.dwg
LAST SAVED ON: 9/05/24 at 12:42am, PLOTTED ON: 9/24/24 at 8:19pm
DATE PLOTTED: FILE LOCATION:

SHEET NOTES

1. DISCONNECT AND REINSTALL EXISTING WALL MOUNT ELECTRICAL DEVICES AT SAME LOCATION, UNLESS OTHERWISE NOTED. INTERCEPT AND EXTEND WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALL. EXISTING DEVICES SHOWN ON PLAN FOR REFERENCE ONLY. ANY EXISTING ELECTRICAL DEVICES THAT ARE NO LONGER IN WORKING CONDITION SHALL BE REPLACED-IN-KIND. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.
2. REMOVE EXISTING ELECTRICAL DEVICES AND REPLACE WITH NEW AS SHOWN. NEW CIRCUITS SHOWN ON PLAN HOMERUN TO NEAREST PANEL, UNLESS OTHERWISE NOTED.

GENERAL DEMOLITION NOTES

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

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B. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

C. SIZE FUSES FOR ALL FUSED SWITCHES PER SUPPLIED EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

D. REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT WIRING, CONDUIT, AND BREAKER SIZES. BREAKER SIZES SHOWN ON PANEL SCHEDULES SUPERSEDES MOCP SIZES SHOWN ON EQUIPMENT SCHEDULE

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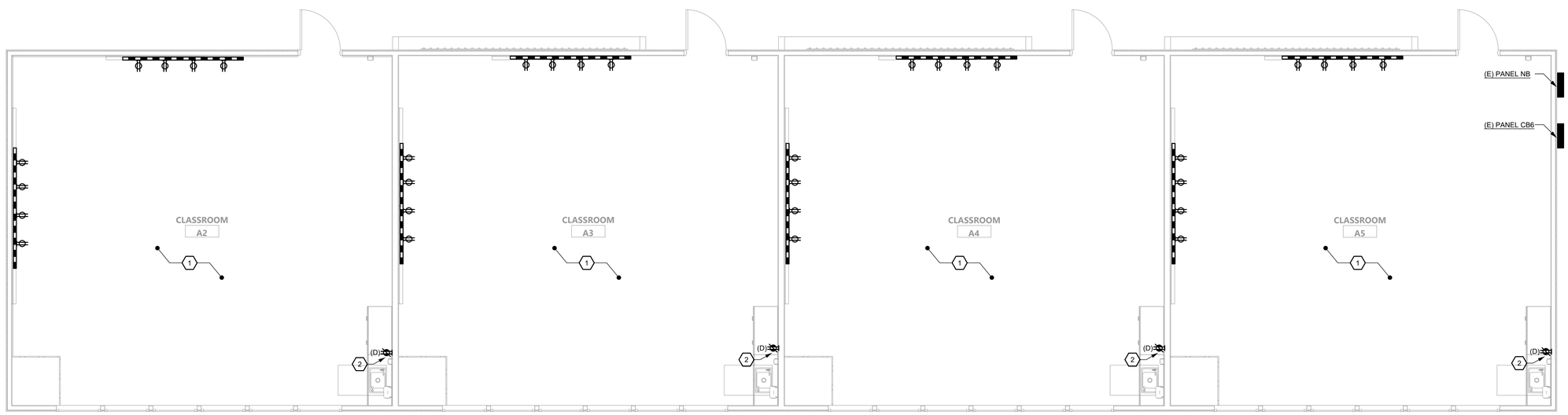
F. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

G. OUTDOOR ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH NEMA 3R RATED ENCLOSURES.

H. EXISTING PANELS SHOWN FOR REFERENCE ONLY AND BASED ON AS BUILT DOCUMENTATION AND PARTIAL SITE SURFACE INVESTIGATION. FIELD VERIFY EXACT PANEL LOCATIONS PRIOR TO COMMENCEMENT OF WORK.

I. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

J. ALL FINISHES SHALL BE WHITE. COORDINATE FINAL FINISHES WITH ARCHITECT.



1 **BLDG 6 - POWER & SIGNAL PLAN**
1/4" = 1'-0"

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
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PROFESSIONAL STAMP

REVISIONS

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SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E303

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\Inc 2\2347.50 - RV - 2E300 - Power Plan.dwg
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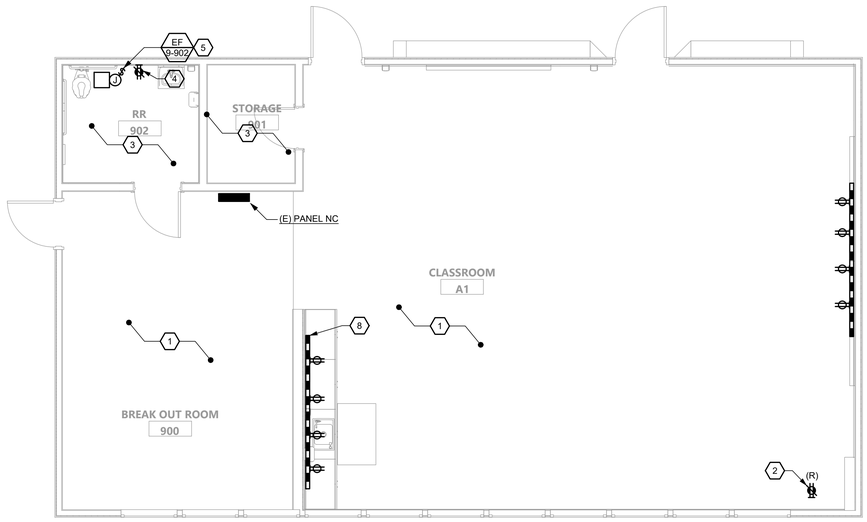
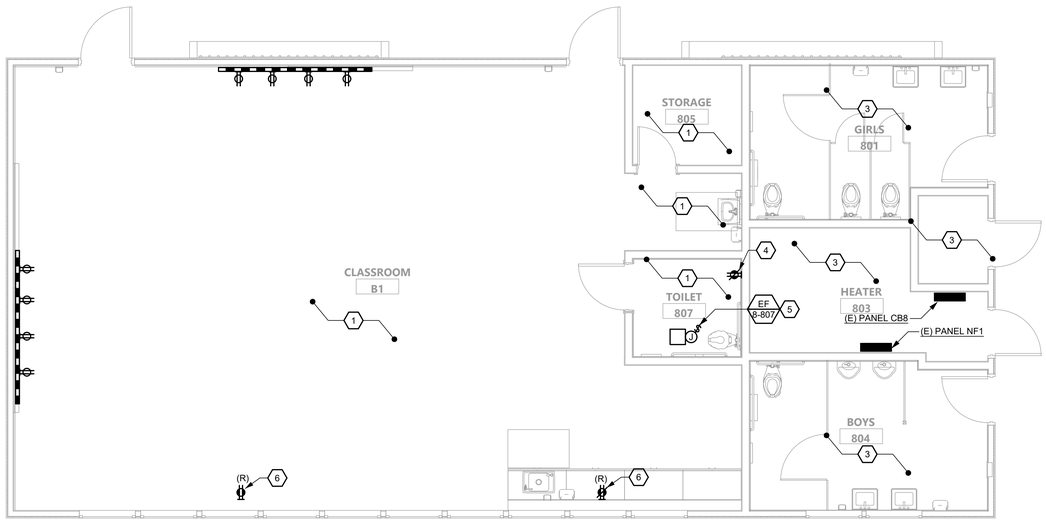


1 BLDG 9 - POWER & SIGNAL PLAN

1/4" = 1'-0"



2 BLDG 8 - POWER & SIGNAL PLAN

1/4" = 1'-0"

SHEET NOTES

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2. REMOVE EXISTING ELECTRICAL DEVICES AND REPLACE WITH NEW AS SHOWN. NEW CIRCUITS SHOWN ON PLAN HOMERUN TO NEAREST PANEL, UNLESS OTHERWISE NOTED.
3. EXISTING TO REMAIN, THIS ROOM.
4. CONNECT ALL NEW GENERAL PURPOSE RECEPTACLES, THIS BUILDING, TO NEAREST AVAILABLE 120V 20A SPARE CIRCUIT.
5. CONNECT TO SAME LIGHTING CIRCUIT, THIS ROOM. LIGHTING AND EXHAUST FAN SHALL BE CONTROLLED BY LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.
6. NEW LOCATION FOR RELOCATED EXISTING GFCI RECEPTACLE ALONG THIS WALL.
7. NEW LOCATION FOR RELOCATED EXISTING GFCI RECEPTACLE AT SINK.
8. NEW LOCATION FOR RECEPTACLES ON SURFACE RACEWAY AT WHITEBOARD.

GENERAL DEMOLITION NOTES

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PROFESSIONAL STAMP



REVISIONS

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SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E304

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524105_Drawings\01_DWGs\Rio Vista\Inc 2\2347.50 - RV - 2E300 - Power Plan.dwg
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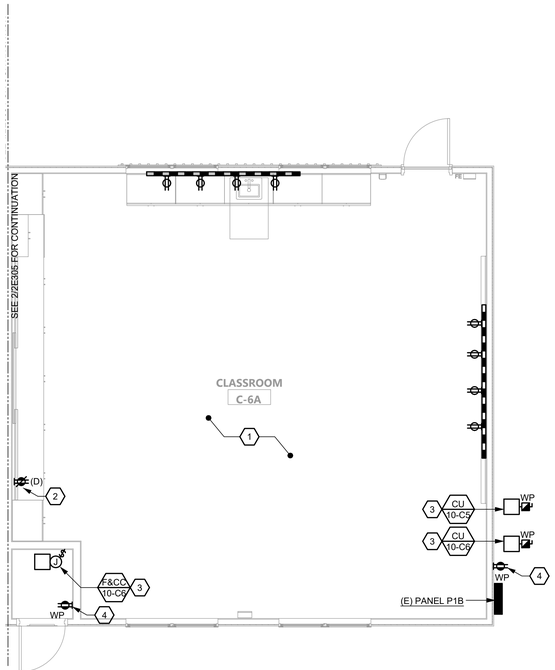
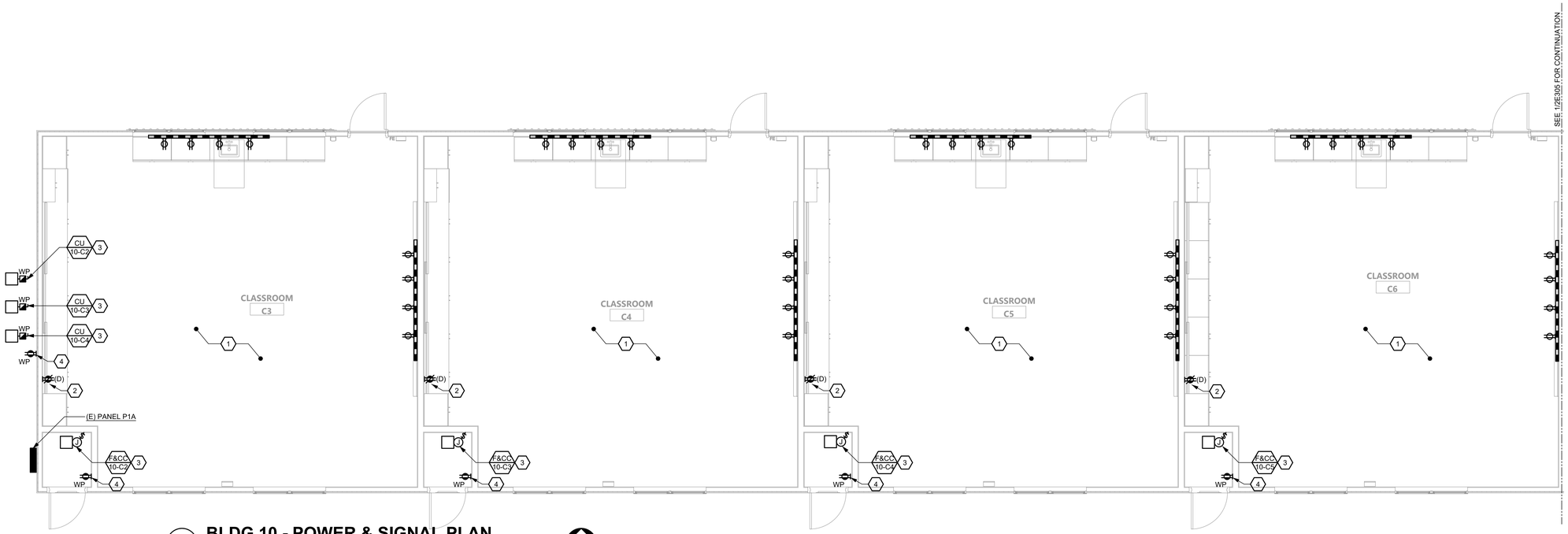


1 BLDG 10 - POWER & SIGNAL PLAN

1/4" = 1'-0"



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2. REMOVE EXISTING ELECTRICAL DEVICES AND REPLACE WITH NEW AS SHOWN. NEW CIRCUITS SHOWN ON PLAN HOMERUN TO NEAREST PANEL, UNLESS OTHERWISE NOTED.
3. DISCONNECT AND RECONNECT POWER CONNECTION FOR REPLACE-IN-KIND HVAC UNIT, THIS LOCATION. FOR UNIT WITHOUT EXISTING DISCONNECT SWITCH IN WORKING CONDITION AND WITHOUT GENERAL PURPOSE RECEPTACLE WITHIN 25FT OF UNIT, PROVIDE AS REQUIRED PER CODE.
4. CONNECT ALL NEW GENERAL PURPOSE RECEPTACLES, THIS BUILDING, TO NEAREST AVAILABLE 120V 20A SPARE CIRCUIT

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AGENCY APPROVAL DSA# 01-121440

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POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

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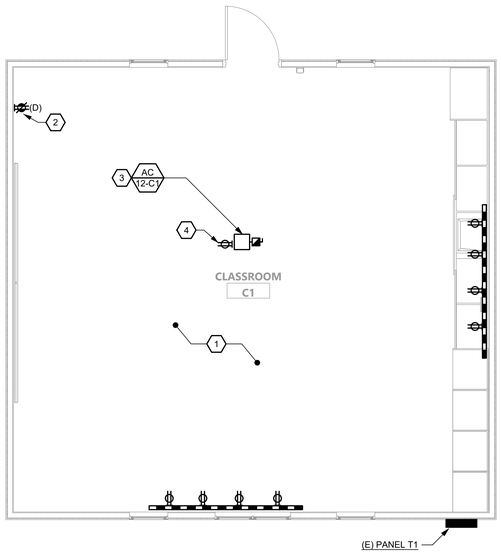

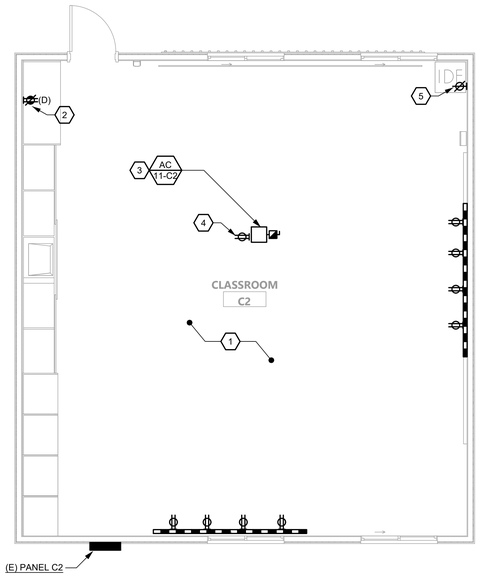

1 BLDGS 11 & 12 - POWER & SIGNAL PLAN

1/4" = 1'-0"

SHEET NOTES

1. DISCONNECT AND REINSTALL EXISTING WALL MOUNT ELECTRICAL DEVICES AT SAME LOCATION, UNLESS OTHERWISE NOTED. INTERCEPT AND EXTEND WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALL. EXISTING DEVICES SHOWN ON PLAN FOR REFERENCE ONLY. ANY EXISTING ELECTRICAL DEVICES THAT ARE NO LONGER IN WORKING CONDITION SHALL BE REPLACED-IN-KIND. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.
2. REMOVE EXISTING ELECTRICAL DEVICES AND REPLACE WITH NEW AS SHOWN. NEW CIRCUITS SHOWN ON PLAN HOMERUN TO NEAREST PANEL, UNLESS OTHERWISE NOTED.
3. DISCONNECT AND RECONNECT POWER CONNECTION FOR REPLACE-IN-KIND HVAC UNIT, THIS LOCATION. FOR UNIT WITHOUT EXISTING DISCONNECT SWITCH IN WORKING CONDITION AND WITHOUT GENERAL PURPOSE RECEPTACLE WITHIN 25FT OF UNIT, PROVIDE AS REQUIRED PER CODE.
4. CONNECT ALL NEW GENERAL PURPOSE RECEPTACLES, THIS BUILDING, TO NEAREST AVAILABLE 120V 20A SPARE CIRCUIT.
5. L6-20R. PROVIDE DEDICATED 208V 20A CIRCUIT FOR IDF. CONNECT TO NEAREST AVAILABLE SPARE CIRCUIT VIA 20A/2P BREAKER IN PANEL. FOR NEW BREAKERS, MATCH EXISTING MAKE, MODEL, AND AIC RATING.

GENERAL DEMOLITION NOTES

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

I. ANY ELECTRICAL WORK, WHICH WILL INTERFERE WITH THE NORMAL USE OF THE BUILDING IN ANY MANNER, SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE.

GENERAL NOTES

A. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

B. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

C. SIZE FUSES FOR ALL FUSED SWITCHES PER SUPPLIED EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

D. REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT WIRING, CONDUIT, AND BREAKER SIZES. BREAKER SIZES SHOWN ON PANEL SCHEDULES SUPERSEDES MOCP SIZES SHOWN ON EQUIPMENT SCHEDULE

E. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES SHALL BE SIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

F. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

G. OUTDOOR ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH NEMA 3R RATED ENCLOSURES.

H. EXISTING PANELS SHOWN FOR REFERENCE ONLY AND BASED ON AS BUILT DOCUMENTATION AND PARTIAL SITE SURFACE INVESTIGATION. FIELD VERIFY EXACT PANEL LOCATIONS PRIOR TO COMMENCEMENT OF WORK.

I. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

J. ALL FINISHES SHALL BE WHITE. COORDINATE FINAL FINISHES WITH ARCHITECT.

AGENCY APPROVAL DSA# 01-121440

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991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
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San Francisco, CA 94104
TEL (415) 466-2997

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KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.

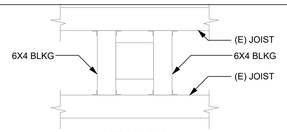
2E306

DATE: AUGUST 28, 2024

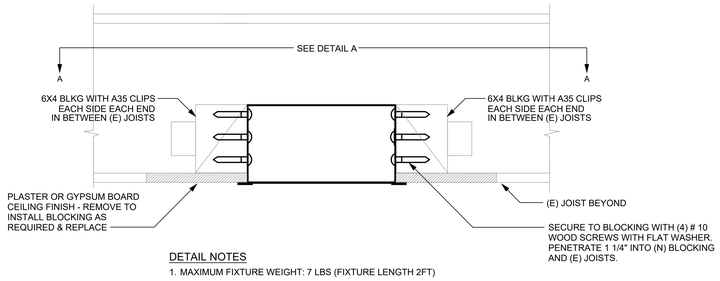
FILE LOCATION: C:\Users\18503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWG\Rio Vista\Inc 2\2347.50 - RV - 2E300 - Power Plan.dwg
LAST SAVED ON: 9/05/24 at 12:42am, PLOTTED ON: 9/24/24 at 8:20pm

DATE PLOTTED:

FILE LOCATION:



DETAIL "A"



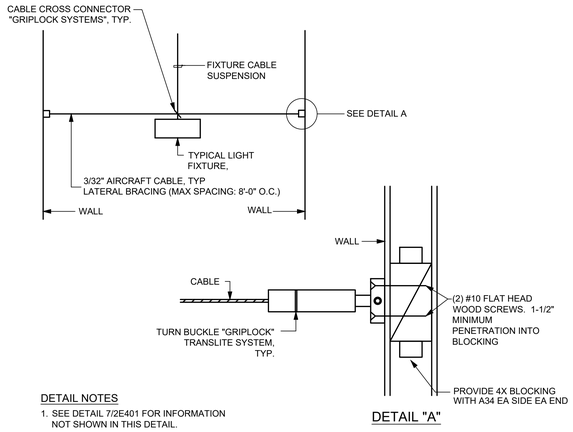
DETAIL NOTES

1. MAXIMUM FIXTURE WEIGHT: 7 LBS (FIXTURE LENGTH 2FT)

6 RECESSED FIXTURE MOUNTING

NOT TO SCALE

4 NOT USED



DETAIL "A"

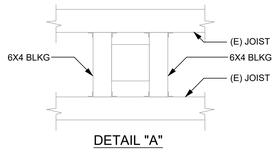
DETAIL NOTES

1. SEE DETAIL 7/2E401 FOR INFORMATION NOT SHOWN IN THIS DETAIL.

5 LIGHT FIXTURE SEISMIC BRACING

NOT TO SCALE

1 NOT USED



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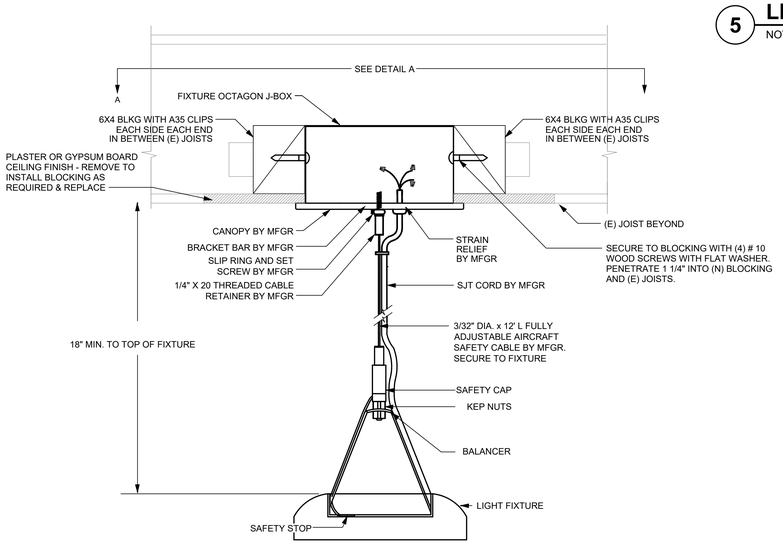

DETAIL NOTES

1. MAXIMUM FIXTURE WEIGHT: 28 LBS (FIXTURE LENGTH 8FT)

NOTE:
FIXTURE SHALL BE ABLE TO SWING 45° IN ALL DIRECTIONS WITHOUT CONTACT WITH ANY FIXTURE OR STRUCTURE. OTHERWISE, THE CONTRACTOR SHALL PROVIDE SEISMIC BRACING PER DETAIL 5/E401

7 PENDANT @ GYP CEILING MTG DETAIL

NOT TO SCALE

2 NOT USED

3 NOT USED

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991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
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(530) 885 0040

atium ENGINEERING
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San Ramon, CA 94582
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PROJECT OWNER & TITLE

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Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

DETAILS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.

2E401

DATE: AUGUST 28, 2024

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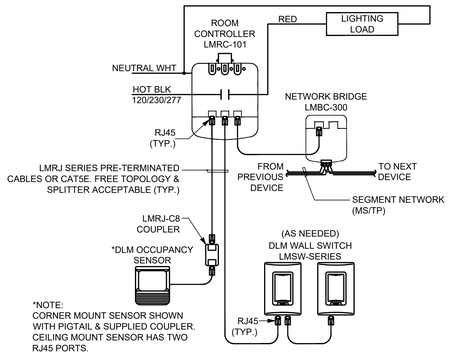
LAST SAVED ON: 9/24/24 at 12:38am, PLOTTED ON: 9/24/24 at 8:20pm

DATE PLOTTED: FILE LOCATION:



A. BASIS OF DESIGN IS WATTSTOPPER DLM. CONTRACTOR TO PROVIDE ALL PARTS, DEVICES, WIRING, APPURTENANCES, AND ASSOCIATED LABOR FOR A COMPLETE INSTALLATION.

B. ALL SENSOR LOCATIONS ARE APPROXIMATE AND SHOWN FOR DESIGN INTENT ONLY. LOCATE SENSORS PER MANUFACTURER GUIDELINES AND INSTALLATION MANUAL. PROVIDE QUANTITIES AND LOCATIONS AS REQUIRED FOR PROPER SENSING. FINAL DEVICE LAYOUT SHALL BE SUBMITTTED AS A SHOP DRAWING AS PART OF SUBMITTAL REVIEW. SHOP DRAWING APPROVAL IS REQUIRED PRIOR TO PROCUREMENT AND ROUGH-IN.

C. LOCATE SENSOR MINIMUM 5 FEET FROM ANY AIR SUPPLY AND/OR RETURN REGISTERS.

D. THE CONTRACTOR SHALL COMMISSION SENSITIVITY AND TIME DELAY SETTINGS AND PROVIDE TITLE 24 COMMISIONING DOCUMENTS.

E. THE CONSTRACTOR SHALL PROVIDE ALL REQUIRED OCCUPANCY SENSOR POWER PACKS. PROVIDE J-BOXES WITH BLANK FACEPLATES AT CEILING.

F. ROOM CONTROLLERS SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION, INSIDE A MULTI-GANG J-BOX WITH BLANK FACEPLATE, CONCEALED IN CABINETRY, ABOVE DROP CEILING/CLOUD, OR AT A NEARBY REMOTE LOCATION. COORDINATE FINAL LOCATION OF DEVICES WITH ARCHITECT.

G. PROVIDE QUANTITIES AS REQUIRED FOR A COMPLETE SYSTEM. ONE ROOM CONTROLLER IS REQUIRED FOR EACH LIGHTING CIRCUIT. PROVIDE ROOM CONTROLLER SERIES WITH THE FOLLOWING THREE SWITCHING ZONES (INCLUDING MULTIPLE DAYLIGHT SWITCHING ZONES) AND CONTINUOUS DIMMING CAPABILITIES.

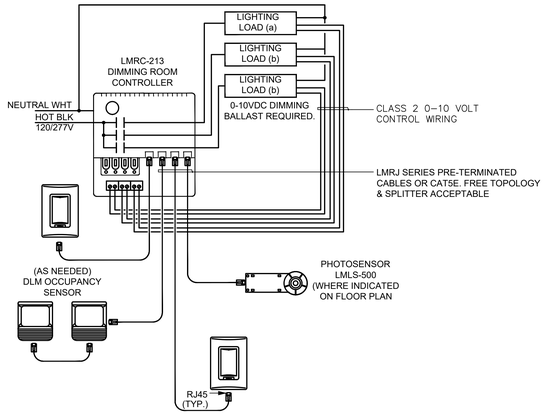
H. LMRJ SERIES PRE-TERMINATED CABLES OR CAT5E IS ACCEPTABLE. MANUFACTURER RECOMMENDS PROVIDING LMRJ SERIES PRE-TERMINATED CABLES FOR EASE OF INSTALLATION.

I. COORDINATE WITH MANUFACTURER SO THAT DEVICES ALLOW FOR OPEN TOPOLOGY, AND DO NOT REQUIRE ADDITIONAL CLASS 2 0-10V CONTROL WIRING. DEVICES SHALL HAVE NETWORK CAPABILITY FOR FUTURE USE.

J. ALL PART NUMBERS SHOWN ARE BY WATTSTOPPER. SEE MANUFACTURER'S WEBSITE FOR SUPPORT DOCUMENTATION AND TECHNICAL SUPPORT.

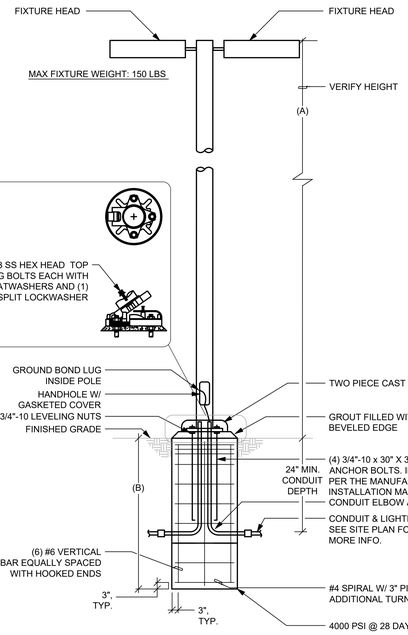
3 ROOM CONTOLLER WITH NETWORK BRIDGE WIRING DIAGRAM

NOT TO SCALE



1 DIGITAL LIGHTING CONTROL DIMMING WIRING DIAGRAM

NOT TO SCALE

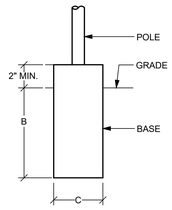


DETAIL NOTES:

A. POLE AND COLLAR INSTALLATION MAY VARY FROM CONDITIONS REFLECTED IN DETAIL. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION DETAILS FOR THE POLE AND COLLAR WITH LIGHT FIXTURE MANUFACTURER PRIOR TO THE FINAL ROUGH-IN OF THE CONCRETE BASE FOR THE LIGHT FIXTURE.

B. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE POLE MOUNTED LIGHT FIXTURE WITH LIGHT FIXTURE MANUFACTURER AS REQUIRED AND PROVIDE AND INSTALL ALL PARTS AND PIECES NECESSARY FOR A FULLY FUNCTIONAL POLE MOUNTED LIGHT FIXTURE SYSTEM.

C. DETAIL NOT SUBJECT TO DSA REVIEW.

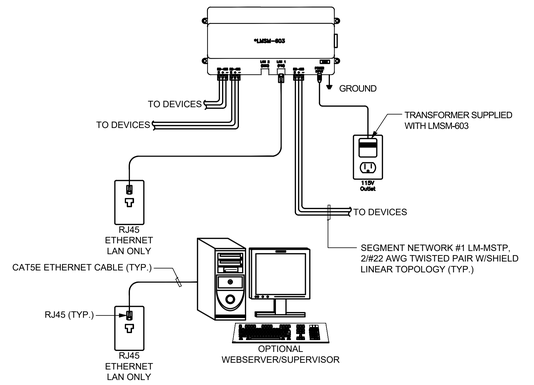


A	B	C
POLE HEIGHT	FOOTING DEPTH BELOW GRADE	*FOOTING DIAMETER
16'-0"	5'-0"	1'-6"

* MINIMUM DIAMETER. IN ALL CASES, DIAMETER OF BASE SHALL BE "C" DIMENSION OR BOLT CIRCLE DIA. +8" WHICHEVER IS GREATER.

4 FLUSH POLE BASE FIXTURE MOUNTING DETAIL

NTS



*NOTE:
THE LMSM-603 SUPPORTS 3 SEGMENTS WITH UP TO 127 DEVICES PER SEGMENT.

2 SEGMENT MANAGER WIRING DIAGRAM

NOT TO SCALE

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991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
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Monterey, CA 93940
TEL (831) 218-1802

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San Ramon, CA 94582
TEL (913) 961-1658

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611 Pacifica Ave
Bay Pointe, CA 94565

SHEET TITLE

DETAILS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.

2E402

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\18503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWG\RIo Vista\Inc 2\2347.50 - RV - 2E400 - Details.dwg
LAST SAVED ON: 9/24/24 at 12:38am, PLOTTED ON: 9/24/24 at 8:20pm
DATE PLOTTED:
FILE LOCATION:

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Rio Vista ES Modernization Increment 2 - Building 3	**Report Page:** (Page 1 of 8)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-06-25T23:11:23-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Bay Point	04	Total Conditioned Floor Area (ft²)	4,120
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
● Classroom					

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	4120	Area Category Method	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	4120			

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 3	**Report Page:** (Page 2 of 8)
	Date Prepared: 2024-06-25T23:11:23-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results
	01	02	03	04		05	06	07	08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	**Total Adjusted** (Watts) *includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)		
Conditioned		2,419.85			=	2,419.85	≥ 2,383.8		= 2383.8	COMPLIES
Unconditioned					=		≥		=	
Controls Compliance (See Table H for Details)										COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)										

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.

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 3	**Report Page:** (Page 3 of 8)
	Date Prepared: 2024-06-25T23:11:23-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
L1/L1E	L1/L1E	No	NA	32.4	Mfr. Spec	73	No	2,365.2	☐	☐
L3	L3	No	NA	18.6	Mfr. Spec	1	No	18.6	☐	☐
					Total Designed Watts: CONDITIONED SPACES			2,383.8		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 3	**Report Page:** (Page 4 of 8)
	Date Prepared: 2024-06-25T23:11:23-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Adult Unisex RR 306.A	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Storage 306	Storage - MF common areas	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom C08	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom C09	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom C10	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom C11	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		
							2E201		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 3	**Report Page:** (Page 5 of 8)
	Date Prepared: 2024-06-25T23:11:23-04:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Adult Unisex RR 306.A	Restroom	0.65	70	45.5	No	No
Storage 306	Storage - MF common areas	0.45	371	166.95	No	No
Classroom C08	Classroom, Lecture, or Training Vocational	0.6	918	550.8	No	No
Classroom C09	Classroom, Lecture, or Training Vocational	0.6	926	555.6	No	No
Classroom C10	Classroom, Lecture, or Training Vocational	0.6	915	549	No	No
Classroom C11	Classroom, Lecture, or Training Vocational	0.6	920	552	No	No
		TOTALS:	4,120	2,419.85	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 3	**Report Page:** (Page 6 of 8)
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O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

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

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

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

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 3	**Report Page:** (Page 7 of 8)
	Date Prepared: 2024-06-25T23:11:23-04:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Adult Unisex RR 306.A; Storage 306; Classroom C08; Classroom C09; Classroom C10; Classroom C11
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Storage 306; Classroom C08; Classroom C09; Classroom C10; Classroom C11

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 3	**Report Page:** (Page 8 of 8)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-06-25T23:11:23-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
J. David Maino	
Company: Atium Engineering	Signature Date: 06/25/24
Address: 3533 York Ln	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

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: J. David Maino	Responsible Designer Signature:
Company: Atium Engineering	Date Signed: 06/25/24
Address: 3533 York Ln	License: E19208
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Rio Vista ES Modernization Increment 2 - Building 4	**Report Page:** (Page 1 of 8)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-06-25T23:33:11-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Bay Point	04	Total Conditioned Floor Area (ft²)	4,090
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
● Classroom					

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	4090	Area Category Method	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	4090			

AGENCY APPROVAL DSA# 01-121440

196
991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

2		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

TITLE 24

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.

2E501

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\Inc 2\23347.50 - RV - 2E500 - Title 24.dwg
LAST SAVED ON: 7/10/24 at 11:08pm, PLOTTED ON: 9/24/24 at 8:21pm
FILE LOCATION:
DATE PLOTTED:

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 4	**Report Page:** (Page 2 of 8)
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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned		2,337.95			=	2,337.95	≥	2,324.8		=	2324.8	COMPLIES
Unconditioned					=		≥			=		
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

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.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 4	**Report Page:** (Page 3 of 8)
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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
L1/L1E	L1/L1E	No	NA	32.4	Mfr. Spec	70	No	2,268	☐	☐
L2	L2	No	NA	14.2	Mfr. Spec	4	No	56.8	☐	☐
							Total Designed Watts: CONDITIONED SPACES	2,324.8		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐	☐
NA < 4,000W subject to multilevel	See Area/Space Level Controls		

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 4	**Report Page:** (Page 4 of 8)
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Cust B10	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Storage 405	Storage - MF common areas	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom B6	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom B7	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom B8	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom B9	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Storage 407	Storage - MF common areas	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Storage 406	Storage - MF common areas	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		
							2E202		

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 4	**Report Page:** (Page 5 of 8)
	Date Prepared: 2024-06-25T23:33:11-04:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Cust B10	All Other Space Types	0.4	296	118.4	No	No
Storage 405	Storage - MF common areas	0.45	152	68.4	No	No
Classroom B6	Classroom, Lecture, or Training Vocational	0.6	864	518.4	No	No
Classroom B7	Classroom, Lecture, or Training Vocational	0.6	851	510.6	No	No
Classroom B8	Classroom, Lecture, or Training Vocational	0.6	845	507	No	No
Classroom B9	Classroom, Lecture, or Training Vocational	0.6	855	513	No	No
Storage 407	Storage - MF common areas	0.45	114	51.3	No	No
Storage 406	Storage - MF common areas	0.45	113	50.85	No	No
		TOTALS:	4,090	2,337.95	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 4	**Report Page:** (Page 6 of 8)
	Date Prepared: 2024-06-25T23:33:11-04:00

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

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

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 4	**Report Page:** (Page 7 of 8)
	Date Prepared: 2024-06-25T23:33:11-04:00

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Cust B10; Storage 405; Classroom B6; Classroom B7; Classroom B8; Classroom B9; Storage 407; Storage 406
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Cust B10; Storage 405; Classroom B6; Classroom B7; Classroom B8; Classroom B9; Storage 407; Storage 406

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 4	**Report Page:** (Page 8 of 8)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-06-25T23:33:11-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
J. David Maino	
Company: Atium Engineering	Signature Date: 06/25/24
Address: 3533 York Ln	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

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: J. David Maino	Responsible Designer Signature:
Company: Atium Engineering	Date Signed: 06/25/24
Address: 3533 York Ln	License: E19208
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 6	**Report Page:** (Page 1 of 8)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-06-26T00:37:17-04:00

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Bay Point	04	Total Conditioned Floor Area (ft^2)	3,702
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft^2)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
• Classroom					

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft^2)	Calculation Method	Area (ft^2)
☐ New Lighting System	N/A	0	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
☒ Altered Lighting System	Area Category Method	3702	Area Category Method	0
Total Area of Work (ft^2)	3702			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 6	**Report Page:** (Page 2 of 8)
	Date Prepared: 2024-06-26T00:37:17-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned		2,220.6			=	2,220.6	≥	2,138.4		=	2138.4	COMPLIES
Unconditioned					=		≥			=		
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

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.

AGENCY APPROVAL DSA# 01-121440

196
991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
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3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

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BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP



REVISIONS

1		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
TITLE 24

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E502

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\Inc 2\2347.50 - RV - 2E500 - Title 24.dwg
LAST SAVED ON: 7/10/24 at 11:08pm, PLOTTED ON: 9/24/24 at 8:21pm
FILE LOCATION:
DATE PLOTTED:

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 6	**Report Page:**	**(Page 3 of 8)**
	Date Prepared:	2024-06-26T00:37:17-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
L1/L1E	L1/L1E	No	NA	32.4	Mfr. Spec	66	No	2,138.4	☐	☐
							Total Designed Watts: CONDITIONED SPACES	2,138.4		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 6	**Report Page:**	**(Page 4 of 8)**
	Date Prepared:	2024-06-26T00:37:17-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Classroom A2	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom A3	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom A4	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom A5	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				
					2E203				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Classroom A2	Classroom, Lecture, or Training Vocational	0.6	935	561	No	No
Classroom A3	Classroom, Lecture, or Training Vocational	0.6	915	549	No	No

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 6	**Report Page:**	**(Page 5 of 8)**
	Date Prepared:	2024-06-26T00:37:17-04:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Classroom A4	Classroom, Lecture, or Training Vocational	0.6	915	549	No	No
Classroom A5	Classroom, Lecture, or Training Vocational	0.6	936	561.6	No	No
		TOTALS:	3,701	2,220.6	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

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

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 6	**Report Page:**	**(Page 6 of 8)**
	Date Prepared:	2024-06-26T00:37:17-04:00

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

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

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 6	**Report Page:**	**(Page 7 of 8)**
	Date Prepared:	2024-06-26T00:37:17-04:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Classroom A2; Classroom A3; Classroom A4; Classroom A5
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Classroom A2; Classroom A3; Classroom A4; Classroom A5

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 6	**Report Page:**	**(Page 8 of 8)**
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:**	2024-06-26T00:37:17-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: J. David Maino	Documentation Author Signature:
Company: Atium Engineering	Signature Date: 06/25/24
Address: 3533 York Ln	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

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: J. David Maino	Responsible Designer Signature:
Company: Atium Engineering	Date Signed: 06/25/24
Address: 3533 York Ln	License: E19208
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 8	**Report Page:**	**(Page 1 of 7)**
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:**	2024-06-25T23:50:47-04:00

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Bay Point	04	Total Conditioned Floor Area (ft^2)	1,364
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft^2)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
● Classroom					

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft^2)	Calculation Method	Area (ft^2)
☒ New Lighting System	Area Category Method	1364	Area Category Method	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft^2)	1364			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 8	**Report Page:**	**(Page 2 of 7)**
	Date Prepared:	2024-06-25T23:50:47-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07	08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	= **Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)		
Conditioned		813.7			=	813.7	≥	792.2		= 792.2	COMPLIES
Unconditioned					=		≥			=	
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

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.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 8	**Report Page:**	**(Page 2 of 7)**
	Date Prepared:	2024-06-25T23:50:47-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
L1/L1E	L1/L1E	No	NA	32.4	Mfr. Spec	23	No	745.2	☐	☐
L2	L2	No	NA	14.2	Mfr. Spec	2	No	28.4	☐	☐
L3	L3	No	NA	18.6	Mfr. Spec	1	No	18.6	☐	☐
							Total Designed Watts: CONDITIONED SPACES	792.2		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

AGENCY APPROVAL DSA# 01-121440

196
991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP



REVISIONS

#		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
TITLE 24

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E503

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWG\Rio Vista\Inc 2\2347.50 - RV - 2E500 - Title 24.dwg
LAST SAVED ON: 7/10/24 at 11:08pm. PLOTTED ON: 9/24/24 at 8:21pm
DATE PLOTTED: FILE LOCATION:

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 8	**Report Page:**	**(Page 4 of 7)**
	Date Prepared:	2024-06-25T23:50:47-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Classroom B1	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Storage 805	Storage - MF common areas	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	Included	Included	No	☐	☐
Toilet 807	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				
					2E204				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Classroom B1	Classroom, Lecture, or Training Vocational	0.6	1,270	762	No	No
Storage 805	Storage - MF common areas	0.45	47	21.15	No	No
Toilet 807	Restroom	0.65	47	30.55	No	No
		TOTALS:	1,364	813.7	See Tables J, or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 8	**Report Page:**	**(Page 5 of 7)**
	Date Prepared:	2024-06-25T23:50:47-04:00

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 8	**Report Page:**	**(Page 6 of 7)**
	Date Prepared:	2024-06-25T23:50:47-04:00

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

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

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Classroom B1; Storage 805; Toilet 807
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Classroom B1; Storage 805

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 8	**Report Page:**	**(Page 7 of 7)**
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:**	2024-06-25T23:50:47-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
J. David Maino	
Company: Atium Engineering	Signature Date: 06/25/24
Address: 3533 York Ln	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

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: J. David Maino	Responsible Designer Signature:
Company: Atium Engineering	Date Signed: 06/25/24
Address: 3533 York Ln	License: E19208
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: Rio Vista ES Modernization Increment 2 - Building 9	**Report Page:**	**(Page 1 of 7)**
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:**	2024-06-25T23:59:51-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Bay Point	04	Total Conditioned Floor Area (ft²)	1,416
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
● Classroom					

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	1416	Area Category Method	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	1416			

STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 9	**Report Page:**	**(Page 2 of 7)**
	Date Prepared:	2024-06-25T23:59:51-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)			Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)			
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		842.85			=	842.85	≥ 759.4		=	759.4	COMPLIES
Unconditioned					=		≥		=		
								Controls Compliance (See Table H for Details)			COMPLIES
								Rated Power Reduction Compliance (See Table Q for Details)			

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.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 9	**Report Page:**	**(Page 3 of 7)**
	Date Prepared:	2024-06-25T23:59:51-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
L1/L1E	L1/L1E	No	NA	32.4	Mfr. Spec	23	No	745.2	☐	☐
L2	L2	No	NA	14.2	Mfr. Spec	1	No	14.2	☐	☐
							Total Designed Watts: CONDITIONED SPACES	759.4		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 9	**Report Page:**	**(Page 4 of 7)**
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Classroom A1	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Storage 901	Storage - MF common areas	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	Included	Included	No	☐	☐
Office 900	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				
					2E204				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Classroom A1	Classroom, Lecture, or Training Vocational	0.6	1,044	626.4	No	No
Storage 901	Storage - MF common areas	0.45	45	20.25	No	No
Office 900	Office (>250 square feet)	0.6	327	196.2	No	No
		TOTALS:	1,416	842.85	See Tables J, or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 9	**Report Page:**	**(Page 5 of 7)**
	Date Prepared:	2024-06-25T23:59:51-04:00

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

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This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

#		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
TITLE 24

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E504

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWG\Rio Vista\Inc 2\2347.50 - RV - 2E500 - Title 24.dwg
LAST SAVED ON: 7/10/24 at 11:08pm, PLOTTED ON: 9/24/24 at 8:21pm
FILE LOCATION:
DATE PLOTTED:

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 9	**Report Page:**	**(Page 6 of 7)**
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R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Classroom A1; Storage 901; Office 900
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Classroom A1; Storage 901; Office 900

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 2 - Building 9	**Report Page:**	**(Page 7 of 7)**
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:**	2024-06-25T23:59:51-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: J. David Maino	Documentation Author Signature:
Company: Atium Engineering	Signature Date: 06/25/24
Address: 3533 York Ln	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

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

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Company: Atium Engineering	Date Signed: 06/25/24
Address: 3533 York Ln	License: E19208
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

Indoor Lighting Mandatory Measures:

110.9 LIGHTING CONTROLS AND COMPONENTS
ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.

NOTE: THE EXCEPTED SPACES DO NOT COUNT TOWARDS THE 10,000 FT2 THRESHOLD.

130.0 GENERAL LUMINAIRE REQUIREMENTS
ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).
ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).

130.1(a) MANUAL AREA CONTROLS
EACH ROOM OR AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL HAVE LIGHTING CONTROLS THAT ALLOW LIGHTING TO BE MANUALLY TURNED ON AND OFF MANUAL CONTROLS SHALL:

1. BE READILY ACCESSIBLE

2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS.

3. PROVIDE SEPARATE CONTROL OF GENERAL, FLOOR, WALL, WINDOW CASE DISPLAY, ORNAMENTAL AND SPECIAL EFFECTS LIGHTING SO EACH TYPE CAN BE TURNED ON AND OFF SEPARATELY WITHOUT AFFECTING OTHER LIGHTING OR EQUIPMENT.

130.1(b) MULTILEVEL LIGHTING CONTROLS
GENERAL LIGHTING IN ALL ROOMS AND AREAS 100 FT2 OR GREATER AND WITH MORE THAN 0.5 WATTS PER FT2 OF LIGHTING LOAD SHALL HAVE MULTILEVEL CONTROLS THAT ALLOW LIGHT LEVELS TO BE ADJUSTED UP AND DOWN. CONTROLS SHALL PROVIDE NUMBER OF CONTROL STEPS AND UNIFORM ILLUMINANCE LIGHT LEVELS PER TABLE 130.1-A.

130.1(c): SHUTOFF CONTROLS
ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN SPACE IS TYPICALLY UNOCCUPIED.

130.1(c)1: CONTROL REQUIREMENTS
ALL INSTALLED INDOOR LIGHTING SHALL HAVE ALL OF THE FOLLOWING:
A. CONTROL(S) CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING IN THE SPACE WHEN TYPICALLY UNOCCUPIED (OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER)
B. SEPARATE CONTROLS FOR LIGHTING ON EACH FLOOR (OTHER THAN STAIRWELLS)

C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT2

Indoor Lighting Mandatory Measures:

130.1(c)5 REQUIRED USE OF FULL-OFF OCCUPANT SENSORS
FULL-OFF OCCUPANT SENSING CONTROLS THAT ARE CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING WHEN THE THE CONTROL ZONE IS UNOCCUPIED FOR 20 MINUTES OR LESS ARE REQUIRED FOR:

- OFFICES 250 FT^2 OR SMALLER
- MULTIPURPOSE ROOMS <1000 FT^2
- CLASSROOMS OF ANY SIZE
- CONFERENCE ROOMS OF ANY SIZE
- RESTROOMS OF ANY SIZE

ADDITIONAL FULL-OFF CONTROL FUNCTIONALITY:
WHEN MULTILEVEL CONTROL IS REQUIRED PER 130.1(b) (ENCLOSED AREA >=100 SQUARE FEET AND LIGHTING LOAD <0.5 W/FT2) PROVIDE VACANCY SENSOR OR PARTIAL-ON OCCUPANCY SENSOR. WHEN MULTILEVEL CONTROL IS NOT REQUIRED PER 130.1(b), PROVIDE OCCUPANT SENSOR, PARTIAL-ON OCCUPANT SENSOR, OR VACANCY SENSOR.

130.1(c)6 PARTIAL OR FULL-OFF OCCUPANT SENSORS
PROVIDE PARTIAL OR FULL-OFF OCCUPANT SENSORS, IN ADDITION TO SHUTOFF CONTROLS PER 130.1(c)1 AND 130.1(c)2, IN THE FOLLOWING SPACES:

- AISLE WAYS AND OPEN AREAS IN WAREHOUSES
- LIBRARY BOOK STACK AISLES
- CORRIDORS AND STAIRWELLS
- OFFICES GREATER THAN 250 SQ. FT.

Indoor Lighting Mandatory Measures:

130.1(d) AUTOMATIC DAYLIGHTING CONTROLS
ALL GENERAL LIGHTING IN THE FOLLOWING ZONES SHALL HAVE CONTROLS THAT AUTOMATICALLY ADJUST THE INSTALLED LIGHTING POWER UP AND DOWN TO KEEP TOTAL LIGHT LEVEL STABLE AS INCOMING DAYLIGHT CHANGES:

- PRIMARY SIDELIT DAYLIT ZONES
- SECONDARY SIDELIT DAYLIT ZONES
- COMBINED PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES IN PARKING GARAGES

ALL DAYLIT ZONES MUST BE SHOWN ON PLANS.

NOTE: PARKING AREAS ON THE ROOF OF A PARKING STRUCTURE ARE NOT SKYLIT DAYLIT AREAS.

IN ADDITION, AUTOMATIC DAYLIGHTING CONTROLS SHALL PROVIDE SEPARATE CONTROL FOR LUMINAIRES IN EACH TYPE OF DAYLIT ZONE. LUMINAIRES THAT FALL IN BOTH SKYLIT AND SIDELIT DAYLIT ZONE SHALL BE CONTROLLED AS PART OF THE SKYLIT ZONE.

130.1(d)3 THE AUTOMATIC DAYLIGHTING CONTROLS SHALL ACHIEVE ALL OF THE FOLLOWING:
A. ADJUST LIGHTING VIA CONTINUOUS DIMMING OR THE NUMBER OF CONTROL STEPS PROVIDED BY THE MULTILEVEL CONTROLS (FOR SPACES REQUIRED TO INSTALL MULTILEVEL CONTROLS UNDER SECTION 130.1(b)).

B. FOR EACH SPACE, ENSURE COMBINED ILLUMINANCE FROM CONTROLLED LIGHTING AND DAYLIGHT IS NOT LESS THAN ILLUMINANCE FROM CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE.

C. ENSURE THAT THE GENERAL LIGHTING POWER IN A DAYLIT ZONE SHALL BE REDUCED BY AT LEAST 90% WHEN DAYLIGHT ILLUMINANCE IN THAT ZONE IS GREATER THAN 150% OF DESIGN ILLUMINANCE RECEIVED FROM THE GENERAL LIGHTING SYSTEM AT FULL POWER (NOT APPLICABLE TO PARKING GARAGES).

D. (FOR PARKING GARAGES ONLY) ENSURE THAT WHEN ILLUMINANCE LEVELS MEASURED AT THE FARTHEST EDGE OF THE SECONDARY SIDELIT ZONE AWAY FROM GLAZING OR OPENING ARE GREATER THAN 150% OF THE ILLUMINANCE PROVIDED BY THE CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE, THE CONTROLLED LIGHTING POWER IN THE COMBINED PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES SHALL BE REDUCED BY 100%.

130.1(d)4 WHEN PHOTOSENSORS ARE LOCATED WITHIN THE DAYLIT ZONE, AT LEAST ONE PHOTOSENSOR SHALL BE LOCATED SO THAT IT IS NOT READILY ACCESSIBLE TO UNAUTHORIZED PERSONNEL.

130.1(d)5 THE LOCATION WHERE CALIBRATION ADJUSTMENTS ARE MADE TO AUTOMATIC DAYLIGHTING CONTROLS SHALL BE READILY ACCESSIBLE TO AUTHORIZED PERSONNEL BUT MAY BE INSIDE A LOCKED CASE OR UNDER A COVER THAT REQUIRES A TOOL FOR ACCESS.

Indoor Lighting Mandatory Measures:

130.1(f) CONTROL INTERACTIONS
EACH LIGHTING CONTROL INSTALLED TO MEET 130.1 REQUIREMENTS SHALL INCORPORATE THE FUNCTIONS OF OTHER LIGHTING CONTROLS REQUIRED BY THIS SECTION.

1. FOR GENERAL LIGHTING, MANUAL AREA CONTROL SHALL PERMIT THE LEVEL OF LIGHT PROVIDED WHILE LIGHTING IS ON TO BE SET OR ADJUSTED BY CONTROLS SPECIFIED IN 130.1(b), (c), (d) and (e).

2. MANUAL AREA CONTROL SHALL PERMIT SHUTOFF CONTROL TO TURN THE LIGHTING DOWN OR OFF.

3. MULTILEVEL CONTROL SHALL PERMIT THE AUTOMATIC DAYLIGHTING CONTROL TO ADJUST ELECTRIC LIGHTING IN RESPONSE TO DAYLIGHT.

4. MULTILEVEL CONTROL SHALL PERMIT THE DEMAND RESPONSIVE (DR) CONTROL TO ADJUST LIGHTING DURING A DR EVENT THEN RETURN IT TO THE LEVEL SET BY THE CONTROL AFTER THE EVENT.

5 SHUTOFF CONTROL SHALL PERMIT THE MANUAL AREA CONTROL TO TURN THE LIGHTING ON.

6. AUTOMATIC DAYLIGHTING CONTROL SHALL PERMIT MULTILEVEL LIGHTING CONTROL TO ADJUST THE LIGHTING LEVEL.

7. FOR LIGHTING CONTROLLED BY MULTILEVEL LIGHTING CONTROLS AND OCCUPANT SENSING CONTROLS THAT PROVIDE AUTOMATIC-ON FUNCTION, CONTROLS SHALL PROVIDE A PARTIAL-ON FUNCTION THAT IS CAPABLE OF AUTOMATICALLY ACTIVATING BETWEEN 50-70% OF CONTROLLED LIGHTING POWER.

8. RESERVED

9. FOR SPACE CONDITIONING SYSTEM ZONES SERVING ONLY SPACES THAT ARE REQUIRED TO HAVE OCCUPANT SENSING CONTROLS SHALL BE CONTROLLED BY OCCUPANCY SENSING CONTROLS.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: Rio Vista ES Modernization Increment 2 - Site	**Report Page:**	**(Page 1 of 8)**
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:**	2024-06-26T00:40:19-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Bay Point	04	Total Illuminated Hardscape Area (ft^2)	3604
02	Climate Zone	12			
03	Outdoor Lighting Zone per Title 24 Part 1	10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
● Classroom					

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6		
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes	○ No
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%			

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05	OR	06	=	07	≥	08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)		Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)		**Total Allowed** (Watts)		**Total Actual** (Watts)	**07 must be >= 08**
343.68	+	---	+	---	+	---	+	---	OR	---	=	343.68	≥	210	COMPLIES
Shielding Compliance (See Table G for Details)															COMPLIES
Controls Compliance (See Table H 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.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
Y1	Y1	☐ Linear	105	Mfr. Spec	2	New	☐	210	Provided	☐	☐
							Total Design Watts:	210			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*

[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*

[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

AGENCY APPROVAL DSA# 01-121440

196
991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
TITLE 24

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E505

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWG\RioVista\nc 2\2347.50 - RV - 2E500 - Title 24.dwg
LAST SAVED ON: 7/10/24 at 11:08pm, PLOTTED ON: 9/24/24 at 8:21pm
FILE LOCATION:
DATE PLOTTED:

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

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G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12	
		Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]			Field Inspector	
Name or Item Tag	Complete Luminaire Description	Mounting Height[1]	Max Allowable Backlight Rating[3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[3]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating[3]	Glare Rating Per Design	Pass	Fail
Y1	Y1	2 MH from property line	No Limit	B3	Area Lighting	U0	U0	> 2 MH from property line	G3	G3	☐	☐

[1] FOOTNOTES: Mounting Height is labeled MH in this table.
[2] Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)
[3] BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. if Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

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H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Parking Lot: "Y1"	Astronomical Timer	Provided	Provided	☐	☐
Parking Lot: "Y1"	Astronomical Timer	Provided	Provided	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Rio Vista ES Modernization Increment 2 - Site	**Report Page:**	**(Page 6 of 8)**
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I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-B while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Parking Lot	3604	0.021	75.68	90	0.2	18	93.68
					Initial Wattage Allowance for Entire Site (Watts):		250
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		343.68

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
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M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

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

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Parking Lot: "Y1"; Parking Lot: "Y1"

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Rio Vista ES Modernization Increment 2 - Site -	**Report Page:**	**(Page 8 of 8)**
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:**	2024-06-26T00:40:19-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: J. David Maino	Documentation Author Signature:
Company: Atium Engineering	Signature Date: 06/25/24
Address: 3533 York Ln	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Ramon/CA/94582	Phone:(913)-961-1658

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: J. David Maino	Responsible Designer Signature:
Company: Atium Engineering	Date Signed: 06/25/24
Address: 3533 York Ln	License: E19208
City/State/Zip: San Ramon/CA/94582	Phone:(913)-961-1658

Outdoor Lighting Mandatory Measures:

110.9 OUTDOOR LIGHTING CONTROLS AND COMPONENTS
ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.

130.0 GENERAL LUMINAIRE REQUIREMENTS
ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).
ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).

130.2(b) LUMINAIRE SHIELDING REQUIREMENTS
ALL OUTDOOR LUMINAIRES WITH INITIAL LUMINAIRE LUMENS >=6,200 SHALL COMPLY WITH THE BACKLIGHT, UPLIGHT AND GLARE (BUG) REQUIREMENTS OF TITLE 24, PART 11, SECTION 5.106.8.

130.2(c) CONTROLS FOR OUTDOOR LIGHTING
ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS AND SHALL HAVE THE FOLLOWING FEATURES:

1. AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE
2. AUTOMATIC SCHEDULING CONTROLS
   - A. AUTOMATIC SCHEDULING CONTROLS SHALL BE INSTALLED FOR ALL OUTDOOR LIGHTING.
   - B. CAPABLE OF REDUCING LIGHTING POWER AT LEAST 50% AND NO MORE THAN 90% AND SEPARATELY CAPABLE OF TURNING LIGHTING OFF DURING UNOCCUPIED PERIODS
   - C. THAT ALLOW SCHEDULING OF AT LEAST TWO NIGHTTIME PERIODS WITH INDEPENDENT LIGHTING LEVELS (MAY INCLUDE OVERRIDE FOR NO MORE THAN 2 HOURS)
3. MOTION SENSING CONTROLS
   - A. SHALL BE INSTALLED FOR THE FOLLOWING AND MAY BE INSTALLED FOR OTHER OUTDOOR LIGHTING AND IN COMBINATION WITH OTHER OUTDOOR LIGHTING CONTROLS:
     (i) ORNAMENTAL HARDSCAPE, OUTDOOR DINING, OR OUTDOOR SALES FRONTAGE LIGHTING MOUNTED 24 FT ABOVE GRADE OR LOWER
     (ii)WALL MOUNTED LUMINAIRES INSTALLED FOR BUILDING FACADE, ORNAMENTAL HARDSCAPE, OUTDOOR DINING LIGHTING THAT HAVE A BILATERALLY SYMMETRIC DISTRIBUTION (AS DESCRIBED IN THE IES HANDBOOK) MOUNTED 24 FEET OR LESS ABOVE GRADE
   - B. CAPABLE OF REDUCING LIGHTING POWER AT LEAST 50% AND NO MORE THAN 90% AND SEPARATELY CAPABLE OF TURNING LIGHTING OFF DURING UNOCCUPIED PERIODS
   - C. CAPABLE OF DIMMING OR TURNING OFF LIGHTING NO LONGER THAN 15 MINUTES AFTER AREA IS VACATED AND TURNING LIGHTING ON WHEN AREA BECOMES OCCUPIED
   - D. SINGLE SENSORS CAN CONTROL NO MORE THAN 1,500 WATTS OF LIGHTING POWER

AGENCY APPROVAL DSA# 01-121440

196
991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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3533 York Ln.
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TEL (913) 961-1658

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BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
TITLE 24

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2E506

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\inc 2\2347.50 - RV - 2E500 - Title 24.dwg
LAST SAVED ON: 7/10/24 at 11:08pm, PLOTTED ON: 9/24/24 at 8:21pm

DATE PLOTTED:
FILE LOCATION:

FIRE ALARM
SEQUENCE OF OPERATIONS MATRIX

● = ACTION

BLANK = NO ACTION

		FIRE ALARM SYSTEM OUTPUTS																
		CONTROL UNIT ANNUNCIATION					NOTIFICATION											
	FIRE ALARM SYSTEM INPUTS	A ACTUATE FIRE ALARM SIGNAL INDICATOR @ FACP	B ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	C ACTUATE AUDIBLE SUPERVISORY SIGNAL @ FACP	D ACTUATE COMMON TROUBLE SIGNAL INDICATOR	E ACTUATE AUDIBLE COMMON TROUBLE SIGNAL @ FACP	F ACTUATE AUDIBLE ALARM SIGNAL THROUGHOUT BLDG	G ACTUATE VISIBLE ALARM SIGNAL THROUGHOUT BLDG	H ACTIVATE LOCAL AUDIBLE SIGNAL/SOUNDER	I TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	J TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	K TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	L SHUT DOWN HVAC UNITS OVER 2000CFM VIA RELAY MODULE				
1	MANUAL FIRE ALARM PULL STATION	●					●	●		●			●					
2	SMOKE DETECTOR AT FACP	●					●	●		●			●					
3	SMOKE DETECTOR - GENERAL AREA	●					●	●		●			●					
6	WATER FLOW SWITCH ACTIVATION	●					●	●	●	●			●					
7	VALVE TAMPER SWITCH ACTIVATION		●	●					●			●						
8	DUCT SMOKE DETECTOR ACTIVATION	●					●	●		●								
9	HEAT DETECTOR ACTIVATION IN ABOVE CEILINGS	●					●	●		●								
15	CELLULAR COMMUNICATOR TROUBLE				●	●							●					
16	DACT COMMUNICATOR TROUBLE				●	●							●					
17	FIRE ALARM AC POWER FAILURE				●	●							●					
18	FIRE ALARM SYSTEM LOW BATTERY				●	●							●					
19	FIRE ALARM OPEN CIRCUIT				●	●							●					
20	FIRE ALARM GROUND FAULT				●	●							●					
21	NAC CIRCUIT SHORT				●	●							●					

FIRE ALARM SYMBOLS

- MANUAL PULL STATION
  MODEL: SIGA-278
  CSFM: 7150-1657:0129
- SMOKE DETECTOR
  MODEL: SIGA-PCD
  CSFM: 7275-1657:0334
- HEAT DETECTOR - ABOVE CEILING
  MODEL: SIGA-HFD
  CSFM: 7270-1657:0333
- HEAT DETECTOR
  - SEE DSA APPLICATION# 105316
- HORN/STROBE
  MODEL: G1AVRF
  CSFM: 7135-1657:0502
- STROBE
  MODEL: G1VRF
  CSFM: 7125-1657:0506
- FACP — FIRE ALARM CONTROL PANEL
  - SEE DSA APPLICATION# 105316
- RNPS — REMOTE NOTIFICATION POWER SUPPLY
  - SEE DSA APPLICATION# 105316
- FATC — FIRE ALARM TERMINAL CABINET, SIZE AS REQ'D
- EOL — END OF LINE RESISTOR

TYPICAL ZONE NOMENCLATURE

FIRE ALARM SEQUENCE OF OPERATIONS

1. ACTIVATION OF ANY SYSTEM PULL STATION, SMOKE DETECTOR, HEAT DETECTOR, WATER FLOW SWITCH OR ANSUL UNIT SHALL CAUSE ALL SIGNAL DEVICES CONNECTED TO THE SYSTEM TO ACTIVATE AND SOUND. FACP(S) AND REMOTE ANNUNCIATOR(S) SHALL INDICATE THE SOURCE OF THE ALARM AND ALARM LIGHT(S) ON THE FIRE ALARM PANEL WILL ILLUMINATE. ACTIVATION OF ALARM SHALL CAUSE THE DIGITAL ALARM COMMUNICATIONS TRANSMITTER TO TRANSMIT THE ALARM TO A U.L. LISTED CENTRAL STATION.

IN ADDITION:

   A. ACTIVATION OF AN AHU DUCT SMOKE DETECTOR SHALL SHUT DOWN THE ASSOCIATED AHU VIA A RELAY BASE.

2. ACTIVATION OF A VALVE SUPERVISORY SWITCH OR SHOULD AN OPEN GROUND OR FAULT OCCUR IN THE WIRING, THE FACP(S) AND REMOTE ANNUNCIATOR(S) SHALL INITIATE A TROUBLE SIGNAL AND SHALL INDICATE THE SOURCE OF THE TROUBLE.
3. ONCE THE SYSTEM IS BACK TO NORMAL, THE PANEL WILL RESOUND FOR PROPER RESETTING.
4. WHERE REMOTE MONITORING IS NOT REQUIRED, THE FIRE ALARM PANEL SHALL BE BACKED UP BY STANDY BATTERIES FOR 24 HOURS AND 5 MINUTES OF ALARM. WHERE REMOTE MONITORING IS REQUIRED, THE FIRE ALARM PANEL SHALL BE BACKED UP BY STANDBY BATTERIES FOR 60 HOURS AND 5 MINUTES OF ALARM.

PROJECT DESCRIPTION

1. OCCUPANCY TYPE: E (EDUCATIONAL)
2. BUILDING CONSTRUCTION TYPE: V-N
3. SYSTEM TYPE: CLASS B, ADDRESSABLE, AUTOMATIC.
4. METHOD OF COMMUNICATION: TELEPHONE
5. SCOPE OF WORK: PROTECT-IN-PLACE EXISTING FIRE ALARM DEVICES FOR ALL BUILDINGS WITH MODERNIZATION WORKS.
6. FIRE ALARM SYSTEM MEETS REQUIREMENTS OF CA SB575 GREEN OAKS FAMILY ACADEMY ELEMENTARY SCHOOL FIRE PROTECTION ACT.

FIRE ALARM GENERAL NOTES

A. PLANS SHALL BE APPROVED BY THE "DIVISION OF THE STATE ARCHITECT" (DSA) PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE AND INSTALLATION OF THE SYSTEM.

B. ALL FIRE ALARM DEVICES SHALL BE CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED.

C. FIRE ALARM WIRING AND MATERIALS SHALL BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760. MINIMUM WIRE SHALL BE TWO (2) #14 AWG FOR INITIATING CIRCUITS AND TWO (2) #14 AWG FOR INDICATING CIRCUITS.

D. FIRE ALARM WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (i.e. THHW OR EQUAL).

E. PER CEC STANDARDS ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM BOX TO THE DEVICE. ALL BOXES SIZED PER CEC.

F. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF FIRE- STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.

G. VISUAL FIRE ALARM DEVICES SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELAS. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE. DEVICES WITHIN 55' OF EACH OTHER SHALL BE SYNCHRONIZED.

H. ALL FIRE ALARM DEVICE CONNECTIONS TO THE LIGHT AND POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTING MEANS SHALL HAVE A PERMANENT RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. (2022 NFPA 72 SECTION 10.6.5.2.1)

I. THE CONTRACTOR SHALL ADJUST ALL DEVICES TO MAXIMUM PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

J. FIRE ALARM EVACUATION SIGNAL SHALL SOUND A THREE-PULSE TEMPORAL PATTERN (2022 CBC 907.5.2.1.3 AND 2022 NFPA 72 18.4.2.1). CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN (2022 NFPA 72, 5.8.6.5.1).

K. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS. (2022 NFPA 72 SECTION 18.4.3.1) (I.E. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS 45 dBA PLUS 15 dBA EQUALS 60 dBA MINIMUM ALARM TONE REQUIRED). SOUND TO BE MAINTAINED FOR A MINIMUM DURATION OF 60 SECONDS.

L. STROBES SHALL FLASH AT A RATE OF NOT EXCEEDING TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND. (2022 NFPA 72 SECTION 18.5.3.1)

M. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC MODE SHOULD HAVE A SOUND LEVEL OF NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 110 dBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. (2022 NFPA 72 SECTION18.4)

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

O. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.

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

Q. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING AT THEIR DISCRETION.

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

S. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE OWNER, ARCHITECT AND INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (2022 NFPA 72 SECTION 7.8.2 AND 14.6 AND FIGURE 7.8.2(a) - 7.8.2(1)).

T. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE ALARM MONITORING CONTRACT OR PROVISIONS. AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72, AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FACTORY MUTUAL (FM) 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH CBC/CFC SECTION 907.6.6.2.

U. PROVIDE A STANDALONE DOCUMENTATION CABINET ADJACENT TO THE FIRE ALARM CONTROL PANEL. ALL RECORDED DOCUMENTATION PERTAINING TO THE FIRE ALARM SYSTEM INSTALLED SHALL BE STORED IN THE DOCUMENTATION CABINET (2022 NFPA 72 7.7.2). THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS" (2022 NFPA 72 7.7.2.5).

V. GAS FURNACE IS REPLACEMENT-IN-KIND. EXCEPTION FROM CEBC 503.15.1 PER DSA IR 9-2 (2.2.1).

ABBREVIATIONS

A	AMPERE	EMT	ELECTRICAL METALLIC TUBING	NIC	NOT IN CONTRACT
ABV	ABOVE	EOL	END OF LINE RESISTOR	NIEC	NOT IN ELECTRICAL CONTRACT
AF	AMPERE FRAME, AMPERE FUSE	EQP	EQUIPMENT	NO	NORMALLY OPEN
AFF	ABOVE FINISHED FLOOR	FA	FIRE ALARM	NTS	NOT TO SCALE
AIC	AMPERE INTERRUPTING CAPACITY	FACP	FIRE ALARM CONTROL PANEL	NUM, #	NUMBER
ARCH	ARCHITECTURAL	(F)	FUTURE	OC	ON CENTER
AS	AMPERE SWITCH	FIN	FINISH	P	POLE
AT	AMPERE TRIP	FLR	FLOOR	PA	PUBLIC ADDRESS
ATS	AUTOMATIC TRANSFER SWITCH	G, GND	GROUND	PB	PULL BOX
BKR	BREAKER	GRC	GALVANIZED RIGID CONDUIT	PF	POWER FACTOR
BLDG	BUILDING	HGT	HEIGHT	PH	PHASE
C	CONDUIT	HP	HORSEPOWER	PNL	PANEL
CATV	CABLE TELEVISION	IC	INTERCOM	PVC	POLYVINYL CHLORIDE
CB	CIRCUIT BREAKER	IDF	INTERMEDIATE DISTRIBUTION FRAME	(R)	EXISTING TO BE RELOCATED
CBC	CALIFORNIA BUILDING CODE	IMC	INTERMEDIATE METAL CONDUIT	REQD	REQUIRED
CD	CANDELA	INFO	INFORMATION	REQT(S)	REQUIREMENT(S)
CEC	CALIFORNIA ELECTRICAL CODE	JB	JUNCTION BOX	RM	ROOM
CFC	CALIFORNIA FIRE CODE	KAIC	KILOAMPERE INTERRUPTING CAPACITY	RSC	RIGID STEEL CONDUIT
CKT	CIRCUIT	KV	KILOVOLT	SAD	SEE ARCHITECTURAL DOCUMENTS
CL	CENTER LINE	KVA	KILOVOLT AMPERE	SHT	SHEET
CLG	CEILING	KW	KILOWATT	SPD	SURGE PROTECTIVE DEVICE
CO	CONDUIT ONLY	LTG	LIGHTING	STC	SIGNAL TERMINAL CABINET
COMM	COMMUNICATIONS	LV	LOW VOLTAGE	SW	SWITCH
CSFM	CALIFORNIA STATE FIRE MARSHALL	MAX	MAXIMUM	SWBD	SWITCHBOARD
CTR	CENTER	KCMIL	THOUSAND CIRCULAR MILS	T24	CALIFORNIA ENERGY CODE
(D)	DEMOLISH	MDF	MAIN DISTRIBUTION FRAME	TC	TERMINAL CABINET
DET	DETAIL	MECH	MECHANICAL	TEL	TELEPHONE
DIM	DIMENSION	MH	MANHOLE	TYP	TYPICAL
DIST	DISTRIBUTION	MIN	MINIMUM	UON	UNLESS OTHERWISE NOTED
DP	DISTRIBUTION PANEL	MTD	MOUNTED	V	VOLT
DWG	DRAWING	MTG	MOUNTING	W	WATT, WIRE
(E)	EXISTING	NC	NORMALLY CLOSED	WP	WEATHERPROOF
ELEC	ELECTRICAL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	XFMR	TRANSFORMER
EM	EMERGENCY				

DRAWING INDEX

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2F114	DEMO FIRE ALARM PLANS
2F115	DEMO FIRE ALARM PLANS
2F201	FIRE ALARM PLANS
2F202	FIRE ALARM PLANS
2F203	FIRE ALARM PLANS
2F204	FIRE ALARM PLANS
2F205	FIRE ALARM PLANS
2F301	DIAGRAMS
2F401	DETAILS

AGENCY APPROVAL DSA# 01-121440

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991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP



REVISIONS

A		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

GENERAL INFORMATION

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.

2F000

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\inc 2\23347.50 - RV - 2F000 - General Information.dwg
LAST SAVED ON: 9/24/24 at 12:54am, PLOTTED ON: 9/24/24 at 8:21pm

DATE PLOTTED: FILE LOCATION:

BATTERY CALCULATION - NEW BOOSTER POWER SUPPLY BPS#3 (BLDG #3)

PANEL MODULES

QTY	MODEL NO.	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	BPS10	BOOSTER POWER SUPPLY	0.070000	0.070000	0.190000	0.190000
		PANEL STANDBY CURRENT		0.070000		
		PANEL ALARM CURRENT				0.190000

FIELD DEVICES

QTY	MODEL NO.	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
0	GIR-HV110	HORN-STROBE 110CD	0.000000	0.000000	0.204000	0.000000
6	GIR-HV75	HORN-STROBE 75CD	0.000000	0.000000	0.157000	0.942000
2	GIR-V15	STROBE 15 CD	0.000000	0.000000	0.058000	0.116000
1	757-1-AT	EXTERIOR HORN	0.000000	0.000000	0.040000	0.040000
		DEVICE STANDBY CURRENT		0.000000		
		DEVICE ALARM CURRENT				1.098000

TOTAL SYSTEM CURRENT

DESCRIPTION	STANDBY	ALARM
CONTROL PANEL	0.070000	0.190000
FIELD DEVICES	0.000000	1.098000
TOTAL STANDBY CURRENT	0.070000	
X 24 HOUR STANDBY	1.680000	
TOTAL ALARM CURRENT		1.288000
5 MINUTES OF ALARM (X .083)		0.106904
TOTAL BATTERY REQUIREMENT		1.786904
BATTERY SUPPLIED		(2) 10Ah

VOLTAGE DROP CALCULATION

NOTIFICATION CIRCUIT 3S1 (BUILDING NO: 3)

DEVICE #		3S1-1	3S1-2	3S1-3	3S1-4	3S1-5	3S1-6	3S1-7	3S1-8	3S1-9
WIRE GAUGE		12	12	12	12	12	12	12	12	12
DISTANCE (FT)		45	20	25	15	45	20	25	15	15
AMPS @ DEVICE		0.158	0.058	0.058	0.158	0.158	0.058	0.058	0.158	0.158
AMPS DEVELOPED		1.180	1.022	0.964	0.906	0.590	0.432	0.374	0.316	0.158
VOLT. DROP		0.213	0.082	0.097	0.055	0.107	0.035	0.038	0.019	0.010
TOTAL CKT V.D.=	0.655									
CKT VOLTAGE=	24									
VOLTAGE AT										
FINAL DEVICE=	23.345									
% VOLTAGE DROP=	2.728									

BATTERY CALCULATION - NEW BOOSTER POWER SUPPLY BPS#4 (BLDG. 4)

PANEL MODULES

QTY	MODEL NO.	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	BPS10	BOOSTER POWER SUPPLY	0.070000	0.070000	0.190000	0.190000
		PANEL STANDBY CURRENT		0.070000		
		PANEL ALARM CURRENT				0.190000

FIELD DEVICES

QTY	MODEL NO.	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
0	GIR-HV110	HORN-STROBE 110CD	0.000000	0.000000	0.204000	0.000000
7	GIR-HV75	HORN-STROBE 75CD	0.000000	0.000000	0.157000	1.099000
0	GIR-V15	STROBE 15 CD	0.000000	0.000000	0.058000	0.000000
1	757-1-AT	EXTERIOR HORN	0.000000	0.000000	0.040000	0.040000
		DEVICE STANDBY CURRENT		0.000000		
		DEVICE ALARM CURRENT				1.139000

TOTAL SYSTEM CURRENT

DESCRIPTION	STANDBY	ALARM
CONTROL PANEL	0.070000	0.190000
FIELD DEVICES	0.000000	1.139000
TOTAL STANDBY CURRENT	0.070000	
X 24 HOUR STANDBY	1.680000	
TOTAL ALARM CURRENT		1.329000
5 MINUTES OF ALARM (X .083)		0.110307
TOTAL BATTERY REQUIREMENT		1.790307
BATTERY SUPPLIED		(2) 10Ah

VOLTAGE DROP CALCULATION

NOTIFICATION CIRCUIT 4S1 (BUILDING N0: 4)

DEVICE #		4S1-1	4S1-2	4S1-3	4S1-4	4S1-5	4S1-6	4S1-7	4S1-8
WIRE GAUGE		12	12	12	12	12	12	12	12
DISTANCE (FT)		55	45	40	25	35	35	35	35
AMPS @ DEVICE		0.158	0.058	0.058	0.158	0.158	0.158	0.158	0.158
AMPS DEVELOPED		1.064	0.906	0.848	0.790	0.632	0.474	0.316	0.158
VOLT. DROP		0.235	0.154	0.136	0.079	0.089	0.067	0.044	0.022
TOTAL CKT V.D.=	0.837								
CKT VOLTAGE=	24								
VOLTAGE AT									
FINAL DEVICE=	23.163								
% VOLTAGE DROP=	3.488								

BATTERY CALCULATION - NEW BOOSTER POWER SUPPLY BPS#5 (BLDG 7 & BLDG 8)

PANEL MODULES

QTY	MODEL NO.	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	BPS10	BOOSTER POWER SUPPLY	0.070000	0.070000	0.190000	0.190000
		PANEL STANDBY CURRENT		0.070000		
		PANEL ALARM CURRENT				0.190000

FIELD DEVICES

QTY	MODEL NO.	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
0	GIR-HV110	HORN-STROBE 110CD	0.000000	0.000000	0.204000	0.000000
8	GIR-HV75	HORN-STROBE 75CD	0.000000	0.000000	0.157000	1.256000
2	GIR-V15	STROBE 15 CD	0.000000	0.000000	0.058000	0.116000
2	757-1-AT	EXTERIOR HORN	0.000000	0.000000	0.040000	0.080000
		DEVICE STANDBY CURRENT		0.000000		
		DEVICE ALARM CURRENT				1.452000

TOTAL SYSTEM CURRENT

DESCRIPTION	STANDBY	ALARM
CONTROL PANEL	0.070000	0.190000
FIELD DEVICES	0.000000	1.452000
TOTAL STANDBY CURRENT	0.070000	
X 24 HOUR STANDBY	1.680000	
TOTAL ALARM CURRENT		1.642000
5 MINUTES OF ALARM (X .083)		0.136286
TOTAL BATTERY REQUIREMENT		1.816286
BATTERY SUPPLIED		(2) 10Ah

VOLTAGE DROP CALCULATION

NOTIFICATION CIRCUIT 5S1 (BLDG #7)

DEVICE #		5S1-1	5S1-2	5S1-3	5S1-4	5S1-5	5S1-6	5S1-7
WIRE GAUGE		12	12	12	12	12	12	12
DISTANCE (FT)		55	45	55	45	45	45	45
AMPS @ DEVICE		0.158	0.058	0.158	0.058	0.058	0.058	0.058
AMPS DEVELOPED		0.664	0.506	0.448	0.290	0.232	0.174	0.116
VOLT. DROP		0.147	0.092	0.099	0.052	0.042	0.031	0.021
TOTAL CKT V.D.=	0.484							
CKT VOLTAGE=	24							
VOLTAGE AT								
FINAL DEVICE=	23.516							
% VOLTAGE DROP=	2.018							

NOTIFICATION CIRCUIT 5S2 (BLDG #8)

DEVICE #		5S2-1	5S2-2	5S2-3	5S2-4	5S2-5	5S2-6	5S2-7	5S2-8
WIRE GAUGE		12	12	12	12	12	12	12	12
DISTANCE (FT)		60	50	5	50	5	5	50	5
AMPS @ DEVICE		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
AMPS DEVELOPED		0.320	0.280	0.240	0.200	0.160	0.120	0.080	0.040
VOLT. DROP		0.077	0.056	0.005	0.040	0.003	0.002	0.016	0.001
TOTAL CKT V.D.=	0.201								
CKT VOLTAGE=	24								
VOLTAGE AT									
FINAL DEVICE=	23.799								
% VOLTAGE DROP=	0.838								

BATTERY CALCULATION - NEW BOOSTER POWER SUPPLY BPS#6 (BLDG #6 & BLDG #9)

PANEL MODULES

QTY	MODEL NO.	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	BPS10	BOOSTER POWER SUPPLY	0.070000	0.070000	0.190000	0.190000
		PANEL STANDBY CURRENT		0.070000		
		PANEL ALARM CURRENT				0.190000

FIELD DEVICES

QTY	MODEL NO.	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
3	GIR-HV110	HORN-STROBE 110CD	0.000000	0.000000	0.204000	0.612000
4	GIR-HV75	HORN-STROBE 75CD	0.000000	0.000000	0.157000	0.628000
3	GIR-V15	STROBE 15 CD	0.000000	0.000000	0.058000	0.174000
2	757-1-AT	EXTERIOR HORN	0.000000	0.000000	0.040000	0.080000
		DEVICE STANDBY CURRENT		0.000000		
		DEVICE ALARM CURRENT				1.494000

TOTAL SYSTEM CURRENT

DESCRIPTION	STANDBY	ALARM
CONTROL PANEL	0.070000	0.190000
FIELD DEVICES	0.000000	1.494000
TOTAL STANDBY CURRENT	0.070000	
X 24 HOUR STANDBY	1.680000	
TOTAL ALARM CURRENT		1.684000
5 MINUTES OF ALARM (X .083)		0.139772
TOTAL BATTERY REQUIREMENT		1.823772
BATTERY SUPPLIED		(2) 10Ah

VOLTAGE DROP CALCULATION

NOTIFICATION CIRCUIT 6S1 (BLDG #6)

DEVICE #		6S1-1	6S1-2	6S1-3	6S1-4	6S1-5
WIRE GAUGE		12	12	12	12	12
DISTANCE (FT)		55	45	40	45	55
AMPS @ DEVICE		0.158	0.058	0.058	0.158	0.158
AMPS DEVELOPED		0.806	0.648	0.590	0.532	0.158
VOLT. DROP		0.178	0.117	0.095	0.096	0.035
TOTAL CKT V.D.=	0.521					
CKT VOLTAGE=	24					
VOLTAGE AT						
FINAL DEVICE=	23.479					
% VOLTAGE DROP=	2.173					

BATTERY CALCULATION - NEW BOOSTER POWER SUPPLY BPS#10 BPS#10 (BLDG #10 **CLASSROOM)**

PANEL MODULES

QTY	MODEL NO.	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	BPS10	BOOSTER POWER SUPPLY	0.070000	0.070000	0.190000	0.190000
		PANEL STANDBY CURRENT		0.070000		
		PANEL ALARM CURRENT				0.190000

FIELD DEVICES

QTY	MODEL NO.	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
0	GIR-HV110	HORN-STROBE 110CD	0.000000	0.000000	0.204000	0.000000
8	GIR-HV75	HORN-STROBE 75CD	0.000000	0.000000	0.157000	1.256000
0	GIR-V15	STROBE 15 CD	0.000000	0.000000	0.058000	0.000000
4	757-1-AT	EXTERIOR HORN	0.000000	0.000000	0.040000	0.160000
		DEVICE STANDBY CURRENT		0.000000		
		DEVICE ALARM CURRENT				1.416000

TOTAL SYSTEM CURRENT

DESCRIPTION	STANDBY	ALARM
CONTROL PANEL	0.070000	0.190000
FIELD DEVICES	0.000000	1.416000
TOTAL STANDBY CURRENT	0.070000	
X 24 HOUR STANDBY	1.680000	
TOTAL ALARM CURRENT		1.606000
5 MINUTES OF ALARM (X .083)		0.133298
TOTAL BATTERY REQUIREMENT		1.813298
BATTERY SUPPLIED		(2) 10Ah

VOLTAGE DROP CALCULATION

NOTIFICATION CIRCUIT 7S1 (BLDG #10 **CLASSROOM)**

DEVICE #		7S1-1	7S1-2	7S1-3	7S1-4	7S1-5	7S1-4	7S1-5
WIRE GAUGE		12	12	12	12	12	12	12
DISTANCE (FT)		25	10	45	35	45	65	55
AMPS @ DEVICE		0.158	0.058	0.058	0.158	0.158	0.158	0.158
AMPS DEVELOPED		1.338	1.180	1.122	1.064	0.690	0.532	0.158
VOLT. DROP		0.134	0.047	0.203	0.150	0.125	0.139	0.035
TOTAL CKT V.D.=	0.833							
CKT VOLTAGE=	24							
VOLTAGE AT								
FINAL DEVICE=	23.167							
% VOLTAGE DROP=	3.472							

NOTIFICATION CIRCUIT 7S2 (EXISTING PORTABLE CLASSROOM)

DEVICE #		7S2-1	7S2-2	7S2-3	7S2-4	7S2-5	7S2-6
WIRE GAUGE		12	12	12	12	12	12
DISTANCE (FT)		75	45	15	35	45	20
AMPS @ DEVICE		0.04	0.04	0.04	0.04	0.04	0.04
AMPS DEVELOPED		0.280	0.240	0.200	0.160	0.120	0.040
VOLT. DROP		0.084	0.043	0.012	0.023	0.022	0.003
TOTAL CKT V.D.=	0.187						
CKT VOLTAGE=	24						
VOLTAGE AT							
FINAL DEVICE=	23.813						
% VOLTAGE DROP=	0.781						

VOLTAGE DROP CALCULATION

NOTIFICATION CIRCUIT 6S2 (BUILDING NO: 9)

DEVICE #		6S2-1	6S2-2	6S2-3	6S2-4	6S2-5	6S2-6
WIRE GAUGE		12	12	12	12	12	12
DISTANCE (FT)		55	45	25	55	65	45
AMPS @ DEVICE		0.04	0.04	0.04	0.04	0.04	0.04
AMPS DEVELOPED		0.280	0.240	0.200	0.160	0.120	0.040
VOLT. DROP		0.062	0.043	0.020	0.035	0.031	0.007
TOTAL CKT V.D.=	0.199	0.179					
CKT VOLTAGE=	24						
VOLTAGE AT							
FINAL DEVICE=	23.801	23.821					
% VOLTAGE DROP=	0.831	0.829					

GENERAL NOTES

A. SEE DSA APPLICATION# 01-105316.

B. EXISTING EQUIPMENT AND DEVICES UNLESS OTHERWISE INDICATED.

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

SCHEDULES

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.

2F001

DATE: AUGUST 28, 2024

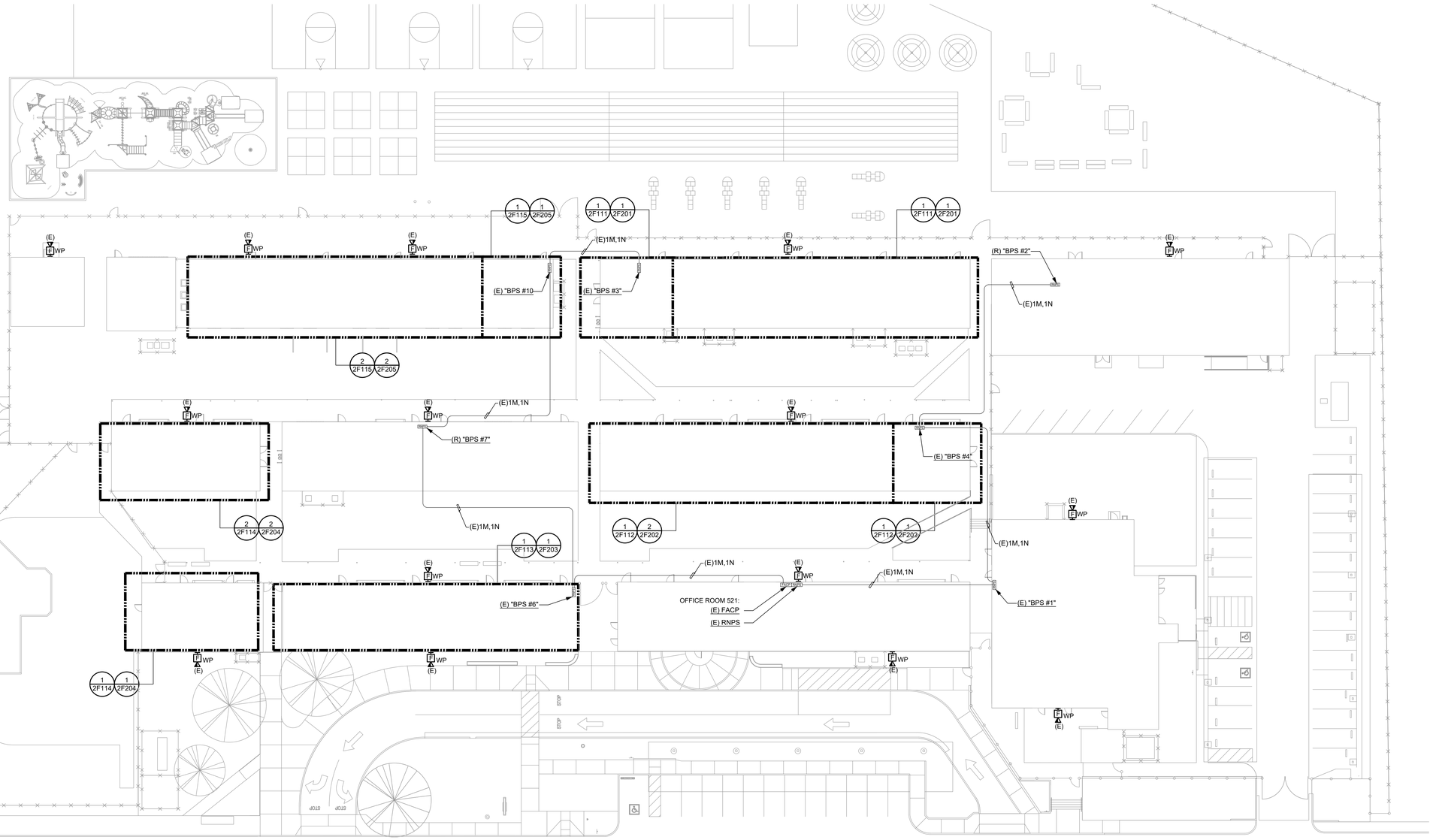
FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\Inc 2\2347.50 - RV - 2F000 - General Information.dwg
LAST SAVED ON: 9/24/24 at 12:54am, PLOTTED ON: 9/24/24 at 8:22pm

DATE PLOTTED: FILE LOCATION:

INTERIOR FIRE ALARM CABLE		
TYPE	**DESCRIPTION**	**USE(S)**
A	1 PAIR #16AWG FPL	FIRE ALARM INITIATING DEVICE CIRCUIT (NON-ADDRESSABLE) ATLAS #202-16-1-2J
M	1 PAIR #16AWG FPL TWISTED NON-SHIELDED	FIRE ALARM DATA & INITIATING CIRCUIT - SLC LOOP ATLAS #218-16-1-1TP
N	1 PAIR #12AWG, FPL NON-SHIELDED	FIRE ALARM NOTIFICATION CIRCUIT ATLAS #202-12-1-2J

GENERAL NOTES

B. EXISTING NOTIFICATION DEVICES, WIRING, AND CIRCUITS SHOWN BASED ON DSA APPLICATION# 01-105316.



1 **SITE PLAN**
1" = 20'-0"

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
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CYPRESS ENGINEERING GROUP
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Monterey, CA 93940
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San Ramon, CA 94582
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San Francisco, CA 94104
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Carmichael, CA 95608
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LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

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Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
SITE PLAN

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F100

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\116503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\Inc 2\23447.50 - RV - 2F100 - Site Plan.dwg
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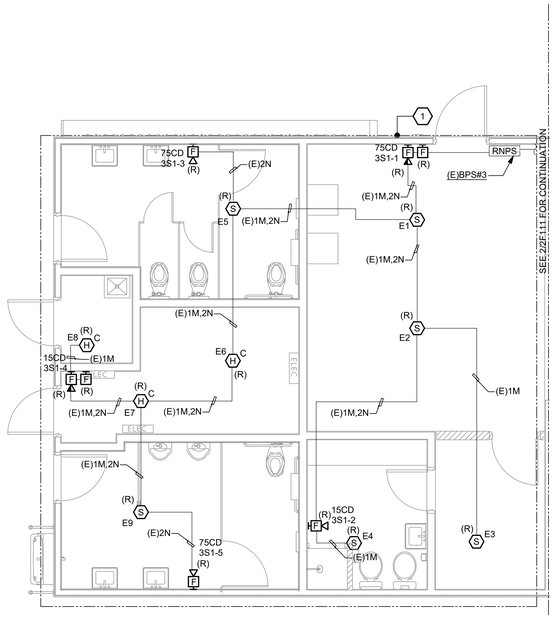
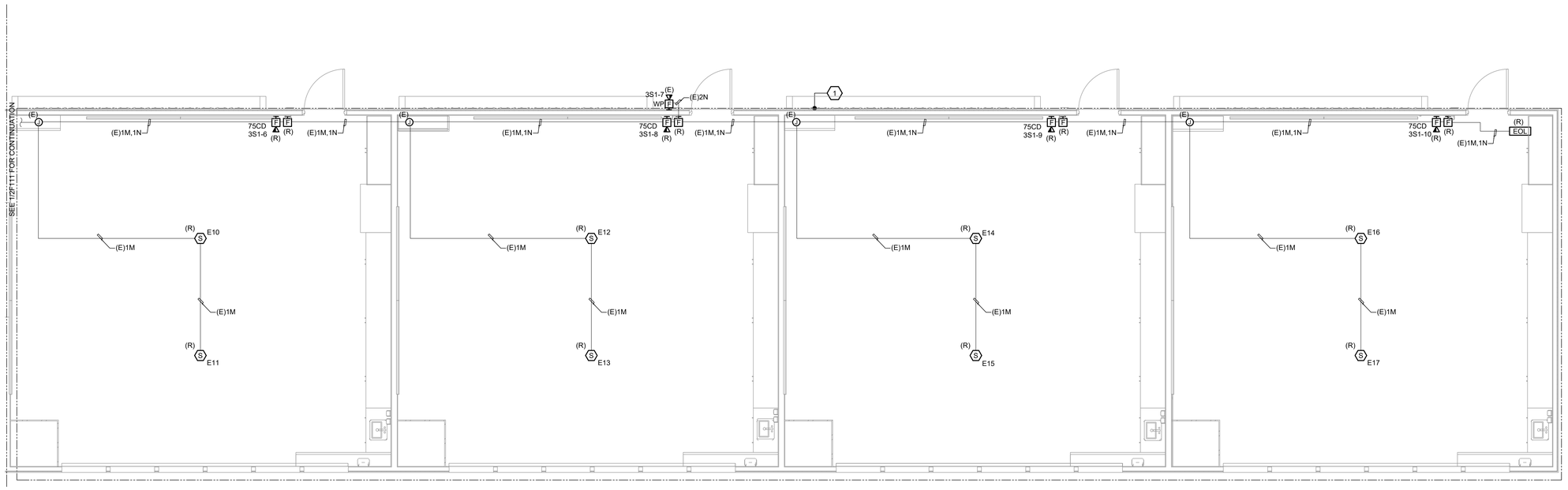
FILE LOCATION:

DATE PLOTTED:



1 BLDG 3 - DEMOLITION FIRE ALARM PLAN

1/4" = 1'-0"



2 BLDG 3 - DEMOLITION FIRE ALARM PLAN

1/4" = 1'-0"

INTERIOR FIRE ALARM CABLE

TYPE	DESCRIPTION	USE(S)
A	1 PAIR #16AWG FPL	FIRE ALARM INITIATING DEVICE CIRCUIT (NON-ADDRESSABLE) ATLAS #202-16-1-2J
M	1 PAIR #16AWG FPL TWISTED NON-SHIELDED	FIRE ALARM DATA & INITIATING CIRCUIT - SLC LOOP ATLAS #218-16-1-1TP
N	1 PAIR #12AWG, FPL NON-SHIELDED	FIRE ALARM NOTIFICATION CIRCUIT ATLAS #202-12-1-2J

GENERAL DEMOLITION NOTES

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

I. ANY ELECTRICAL WORK, WHICH WILL INTERFERE WITH THE NORMAL USE OF THE BUILDING IN ANY MANNER, SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE.

J. EXISTING NOTIFICATION DEVICES, WIRING, AND CIRCUITS SHOWN BASED ON DSA APPLICATION# 01-105316.

(#) SHEET NOTES

1. DISCONNECT AND REINSTALL EXISTING FIRE ALARM DEVICES AT SAME LOCATION, UNLESS OTHERWISE NOTED. INTERCEPT AND EXTEND BRANCH WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALL. EXISTING DEVICES SHOWN ON PLAN FOR REFERENCE ONLY. ANY EXISTING DEVICES THAT ARE NO LONGER IN WORKING CONDITION SHALL BE REPLACED-IN-KIND. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
DEMO FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F111

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524105_Drawings\01_DWG\Rio Vista\Inc 2\2347.50 - RV - 2F110 - Demo Fire Alarm Plan.dwg
LAST SAVED ON: 9/24/24 at 8:13pm, PLOTTED ON: 9/24/24 at 8:23pm
FILE LOCATION:
DATE PLOTTED:

INTERIOR FIRE ALARM CABLE		
TYPE	**DESCRIPTION**	**USE(S)**
A	1 PAIR #16AWG FPL	FIRE ALARM INITIATING DEVICE CIRCUIT (NON-ADDRESSABLE) ATLAS #202-16-1-2J
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J. EXISTING NOTIFICATION DEVICES, WIRING, AND CIRCUITS SHOWN BASED ON DSA APPLICATION# 01-105316.

(#) SHEET NOTES

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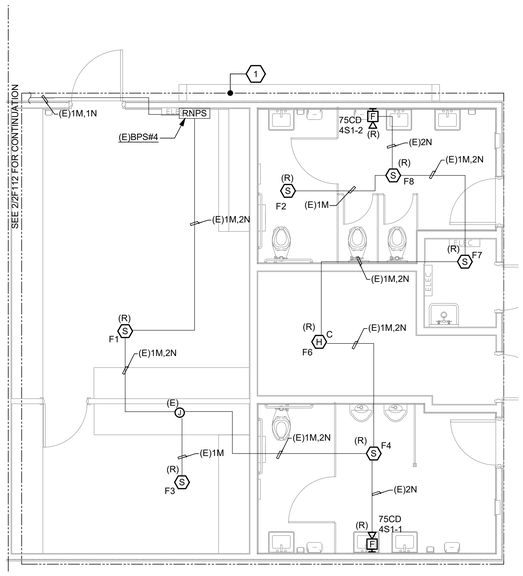
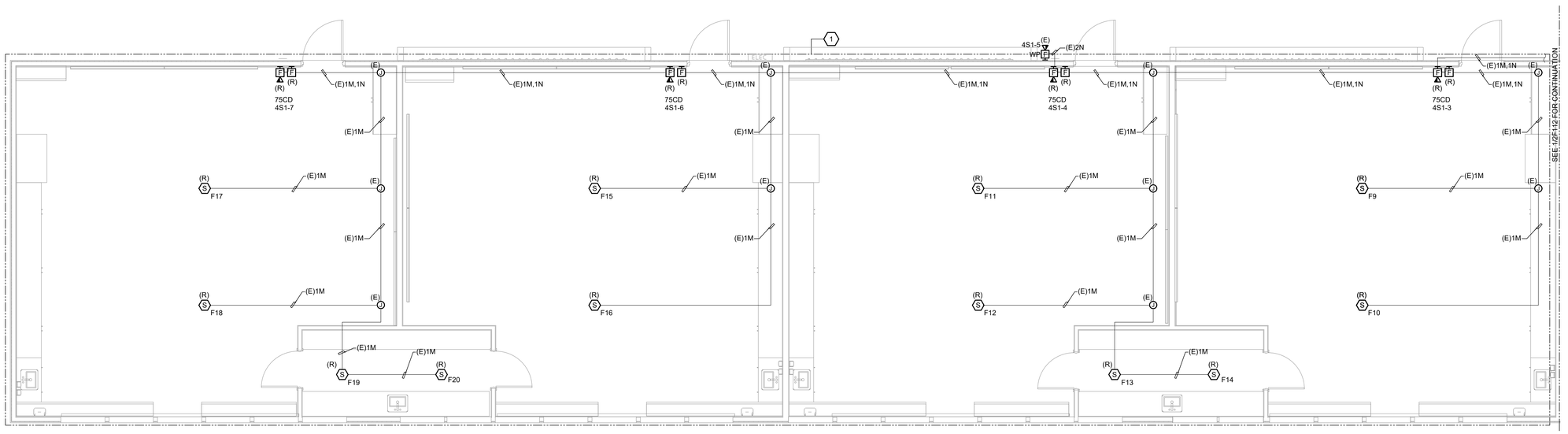


1 BLDG 4 - DEMOLITION FIRE ALARM PLAN
1/4" = 1'-0"



2 BLDG 4 - DEMOLITION FIRE ALARM PLAN
1/4" = 1'-0"

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
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ATIUM ENGINEERING
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San Ramon, CA 94582
TEL (913) 961-1658

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San Francisco, CA 94104
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KMM Services Inc.
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Carmichael, CA 95608
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1223 High Street
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(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
DEMO FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F112

DATE: AUGUST 28, 2024

AGENCY APPROVAL DSA# 01-121440

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524105_Drawings\01_DWG's\Rio Vista\Inc 2\2347.50 - RV - 2F110 - Demo Fire Alarm Plan.dwg
LAST SAVED ON: 9/24/24 at 8:13pm, PLOTTED ON: 9/24/24 at 8:23pm
FILE LOCATION:
DATE PLOTTED:

INTERIOR FIRE ALARM CABLE		
TYPE	**DESCRIPTION**	**USE(S)**
A	1 PAIR #16AWG FPL	FIRE ALARM INITIATING DEVICE CIRCUIT (NON-ADDRESSABLE) ATLAS #202-16-1-2J
M	1 PAIR #16AWG FPL TWISTED NON-SHIELDED	FIRE ALARM DATA & INITIATING CIRCUIT - SLC LOOP ATLAS #218-16-1-1TP
N	1 PAIR #12AWG, FPL NON-SHIELDED	FIRE ALARM NOTIFICATION CIRCUIT ATLAS #202-12-1-2J

GENERAL DEMOLITION NOTES

A. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

I. ANY ELECTRICAL WORK, WHICH WILL INTERFERE WITH THE NORMAL USE OF THE BUILDING IN ANY MANNER, SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE.

J. EXISTING NOTIFICATION DEVICES, WIRING, AND CIRCUITS SHOWN BASED ON DSA APPLICATION# 01-105316.

(#) SHEET NOTES

1. DISCONNECT AND REINSTALL EXISTING FIRE ALARM DEVICES AT SAME LOCATION, UNLESS OTHERWISE NOTED. INTERCEPT AND EXTEND BRANCH WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALL. EXISTING DEVICES SHOWN ON PLAN FOR REFERENCE ONLY. ANY EXISTING DEVICES THAT ARE NO LONGER IN WORKING CONDITION SHALL BE REPLACED-IN-KIND. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.



1 **BLDG 6 - DEMOLITION FIRE ALARM PLAN**
1/4" = 1'-0"

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
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Monterey, CA 93940
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ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
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YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
DEMO FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F113

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWG\Rio Vista\Inc 2\2347.50 - RV - 2F110 - Demo Fire Alarm Plan.dwg
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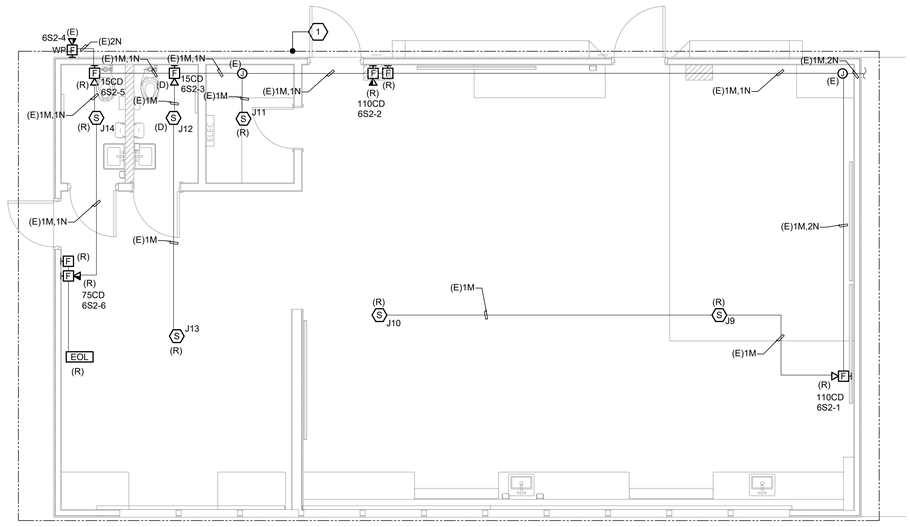
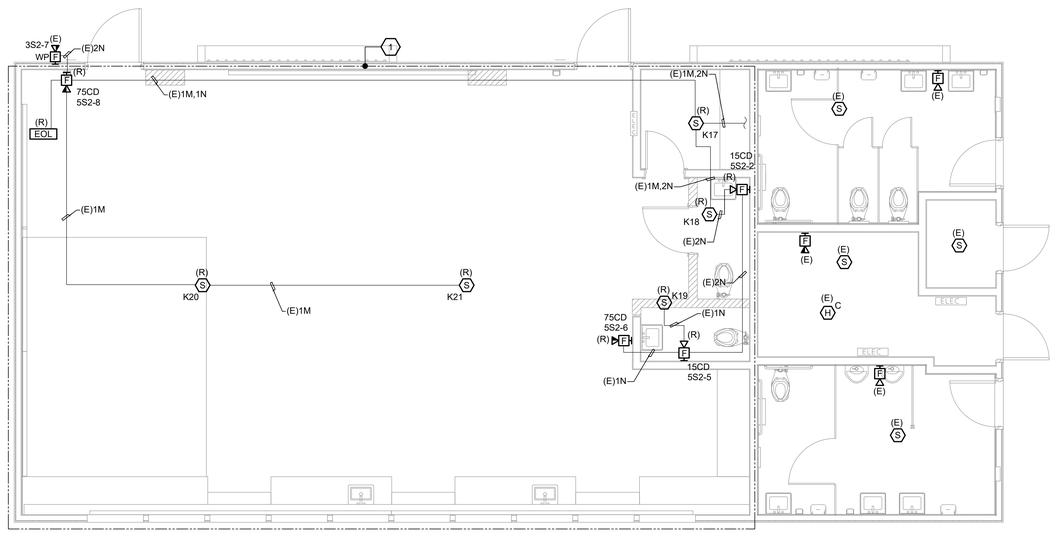


1 BLDG 9 - DEMOLITION FIRE ALARM PLAN

1/4" = 1'-0"



2 BLDG 8 - DEMOLITION FIRE ALARM PLAN

1/4" = 1'-0"

INTERIOR FIRE ALARM CABLE

TYPE	DESCRIPTION	USE(S)
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N	1 PAIR #12AWG, FPL NON-SHIELDED	FIRE ALARM NOTIFICATION CIRCUIT ATLAS #202-12-1-2J

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J. EXISTING NOTIFICATION DEVICES, WIRING, AND CIRCUITS SHOWN BASED ON DSA APPLICATION# 01-105316.

SHEET NOTES

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991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

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CYPRESS ENGINEERING GROUP
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San Ramon, CA 94582
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Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
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Bay Point, CA 94565

SHEET TITLE
DEMO FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F114

DATE: AUGUST 28, 2024

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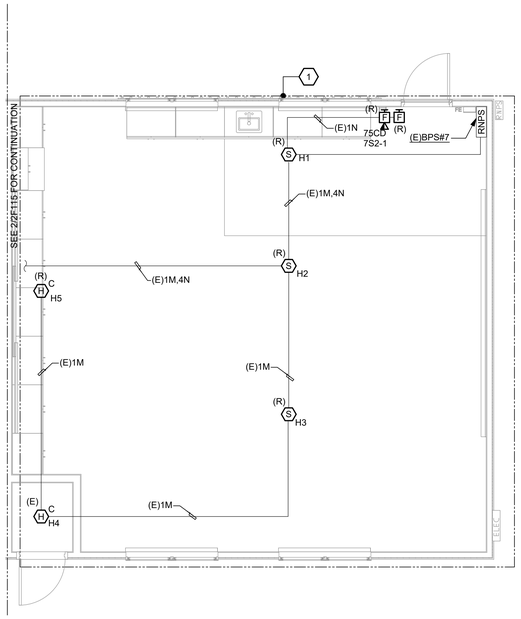
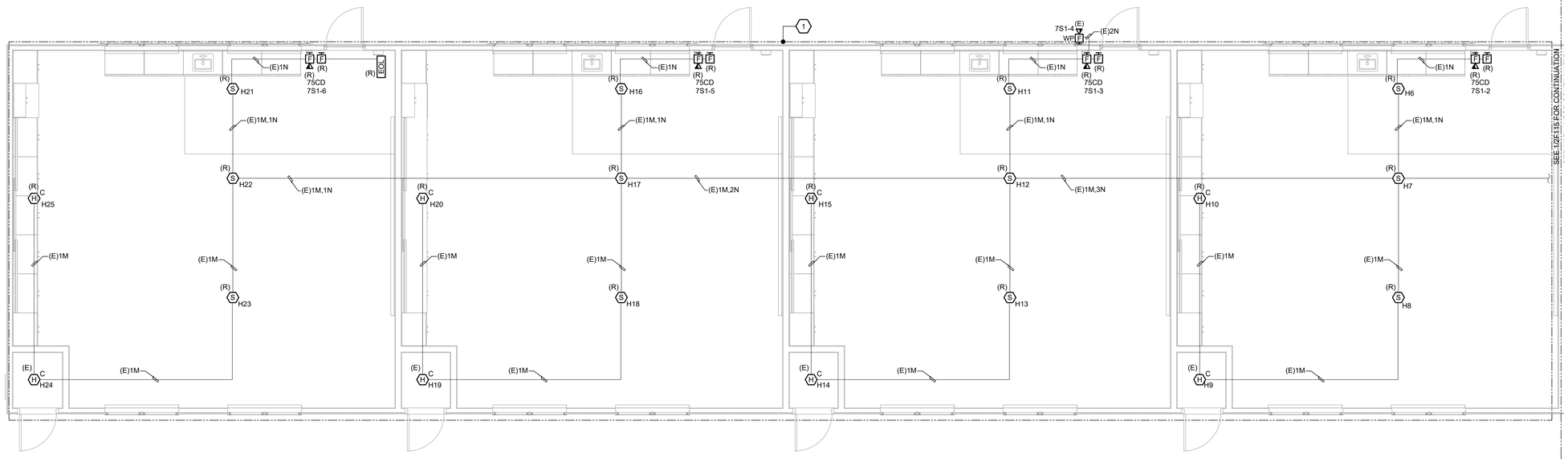


1 BLDG 10 - DEMOLITION FIRE ALARM PLAN

1/4" = 1'-0"



2 BLDG 10 - DEMOLITION FIRE ALARM PLAN

1/4" = 1'-0"

INTERIOR FIRE ALARM CABLE

TYPE	DESCRIPTION	USE(S)
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J. EXISTING NOTIFICATION DEVICES, WIRING, AND CIRCUITS SHOWN BASED ON DSA APPLICATION# 01-105316.

SHEET NOTES

1. DISCONNECT AND REINSTALL EXISTING FIRE ALARM DEVICES AT SAME LOCATION, UNLESS OTHERWISE NOTED. INTERCEPT AND EXTEND BRANCH WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALL. EXISTING DEVICES SHOWN ON PLAN FOR REFERENCE ONLY. ANY EXISTING DEVICES THAT ARE NO LONGER IN WORKING CONDITION SHALL BE REPLACED-IN-KIND. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.

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991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
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ELECTRICAL ENGINEERS
3533 York Lane
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tel: 913.961.1658
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Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
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SHEET TITLE
DEMO FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F115

DATE: AUGUST 28, 2024

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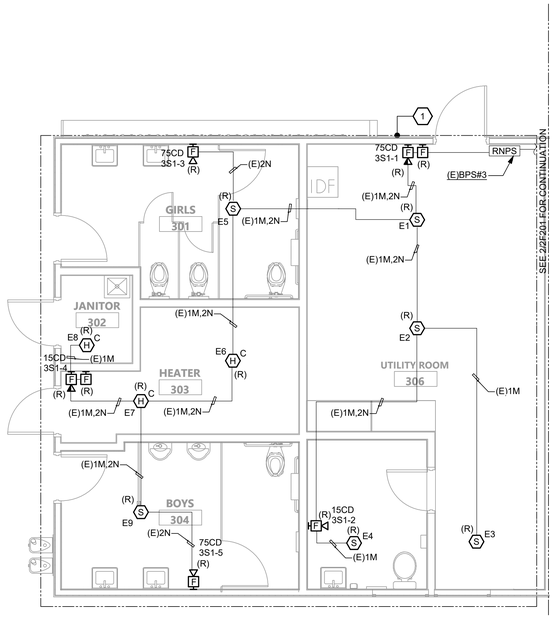
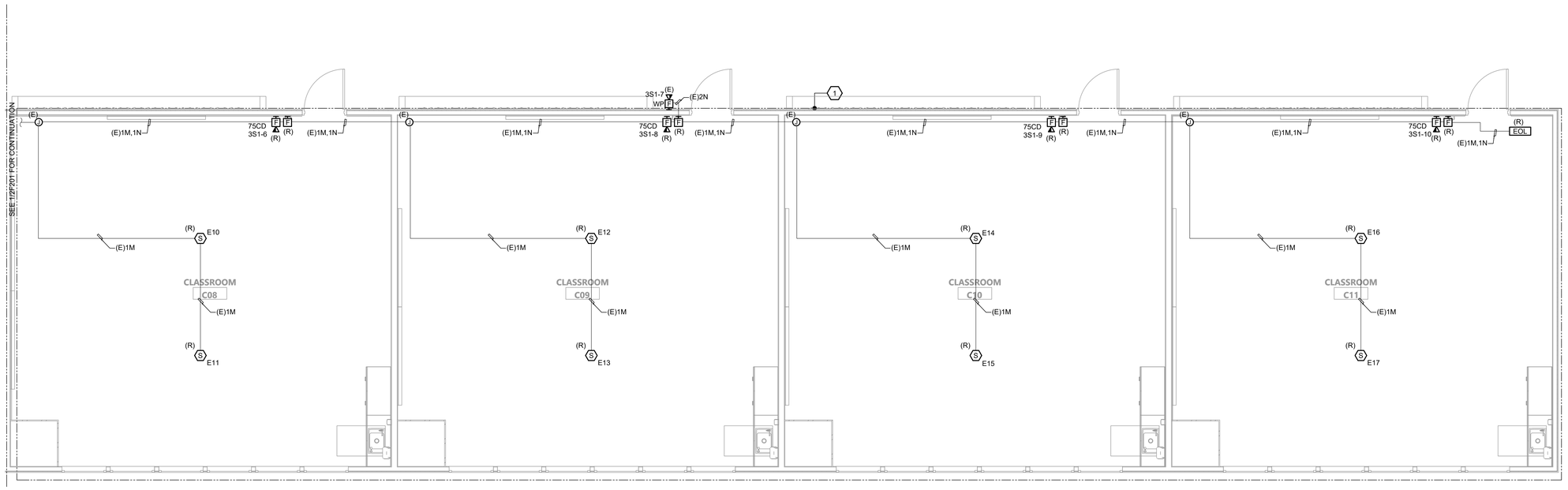


1 BLDG 3 - FIRE ALARM PLAN

1/4" = 1'-0"



2 BLDG 3 - FIRE ALARM PLAN

1/4" = 1'-0"

INTERIOR FIRE ALARM CABLE

TYPE	DESCRIPTION	USE(S)
A	1 PAIR #16AWG FPL	FIRE ALARM INITIATING DEVICE CIRCUIT (NON-ADDRESSABLE) ATLAS #202-16-1-2J
M	1 PAIR #16AWG FPL TWISTED NON-SHIELDED	FIRE ALARM DATA & INITIATING CIRCUIT - SLC LOOP ATLAS #218-16-1-1TP
N	1 PAIR #12AWG, FPL NON-SHIELDED	FIRE ALARM NOTIFICATION CIRCUIT ATLAS #202-12-1-2J

GENERAL NOTES

A. CONNECT REMOTE NOTIFICATION POWER SUPPLIES TO FIRE ALARM CONTROL PANEL WITH TWO (2) #14 AWG, UNLESS OTHERWISE NOTED.

B. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. FOR RACEWAY IN NON-ACCESSIBLE LOCATIONS, USE EXPOSED WIREMOLD V700 SERIES SURFACED MOUNTED RACEWAYS.

F. ALL INTERIOR FIRE ALARM CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.

G. SEE DETAILS FOR MOUNTING REQUIREMENTS OF FIRE ALARM DEVICES.

H. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

I. MAINTAIN ALL SPACING AND PENETRATION REQUIREMENTS THROUGH FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

J. PROVIDE FIRE RATED ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS TO ABOVE CEILING HEAT DETECTORS FOR MAINTENANCE.

K. HEAT DETECTORS MOUNTED BELOW CEILING SHALL BE 135 DEGREE FIXED TEMP/RATE OF RISE. HEAT DETECTORS MOUNTED ABOVE CEILING SHALL BE 190 DEGREE HIGH FIXED TEMPURATURE, UNLESS OTHERWISE NOTED.

L. EXISTING NOTIFICATION DEVICES, WIRING, AND CIRCUITS SHOWN BASED ON DSA APPLICATION# 01-105316.

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FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F201

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524105_Drawings\01_DWG's\Rio Vista\Inc 2\2347.50 - RV - 2F200 - Fire Alarm Plan.dwg
LAST SAVED ON: 9/24/24 at 8:13pm, PLOTTED ON: 9/24/24 at 8:24pm
FILE LOCATION:
DATE PLOTTED:

INTERIOR FIRE ALARM CABLE		
TYPE	**DESCRIPTION**	**USE(S)**
A	1 PAIR #16AWG FPL	FIRE ALARM INITIATING DEVICE CIRCUIT (NON-ADDRESSABLE) ATLAS #202-16-1-2J
M	1 PAIR #16AWG FPL TWISTED NON-SHIELDED	FIRE ALARM DATA & INITIATING CIRCUIT - SLC LOOP ATLAS #218-16-1-1TP
N	1 PAIR #12AWG, FPL NON-SHIELDED	FIRE ALARM NOTIFICATION CIRCUIT ATLAS #202-12-1-2J

GENERAL NOTES

A. CONNECT REMOTE NOTIFICATION POWER SUPPLIES TO FIRE ALARM CONTROL PANEL WITH TWO (2) #14 AWG, UNLESS OTHERWISE NOTED.

B. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. FOR RACEWAY IN NON-ACCESSIBLE LOCATIONS, USE EXPOSED WIREMOLD V700 SERIES SURFACED MOUNTED RACEWAYS.

F. ALL INTERIOR FIRE ALARM CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.

G. SEE DETAILS FOR MOUNTING REQUIREMENTS OF FIRE ALARM DEVICES.

H. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

I. MAINTAIN ALL SPACING AND PENETRATION REQUIREMENTS THROUGH FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

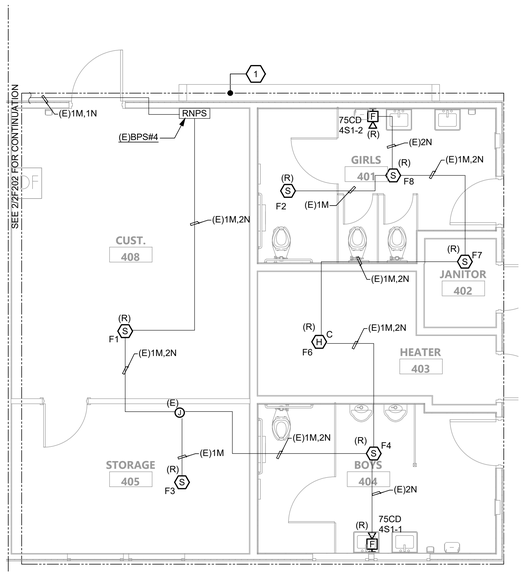
J. PROVIDE FIRE RATED ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS TO ABOVE CEILING HEAT DETECTORS FOR MAINTENANCE.

K. HEAT DETECTORS MOUNTED BELOW CEILING SHALL BE 135 DEGREE FIXED TEMP/RATE OF RISE. HEAT DETECTORS MOUNTED ABOVE CEILING SHALL BE 190 DEGREE HIGH FIXED TEMPURATURE, UNLESS OTHERWISE NOTED.

L. EXISTING NOTIFICATION DEVICES, WIRING, AND CIRCUITS SHOWN BASED ON DSA APPLICATION# 01-105316.

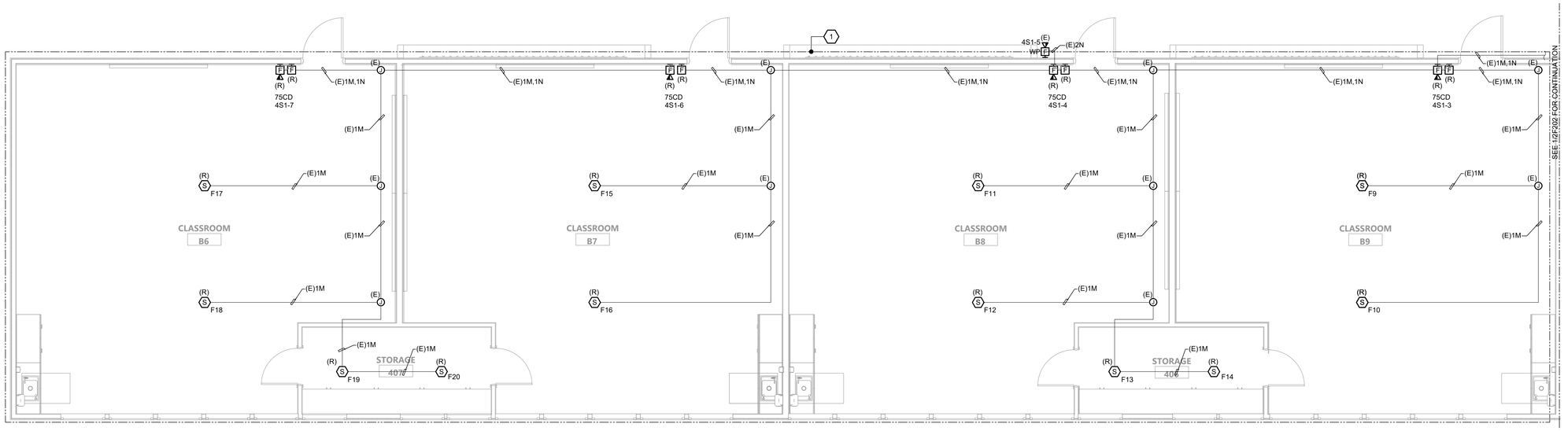
(#) SHEET NOTES

1. DISCONNECT AND REINSTALL EXISTING FIRE ALARM DEVICES AT SAME LOCATION, UNLESS OTHERWISE NOTED. INTERCEPT AND EXTEND BRANCH WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALL. EXISTING DEVICES SHOWN ON PLAN FOR REFERENCE ONLY. ANY EXISTING DEVICES THAT ARE NO LONGER IN WORKING CONDITION SHALL BE REPLACED-IN-KIND. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.



1 BLDG 4 - FIRE ALARM PLAN

1/4" = 1'-0"



2 BLDG 4 - FIRE ALARM PLAN

1/4" = 1'-0"

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AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
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LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
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PROFESSIONAL STAMP

REVISIONS

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F202

DATE: AUGUST 28, 2024

INTERIOR FIRE ALARM CABLE		
TYPE	**DESCRIPTION**	**USE(S)**
A	1 PAIR #16AWG FPL	FIRE ALARM INITIATING DEVICE CIRCUIT (NON-ADDRESSABLE) ATLAS #202-16-1-2J
M	1 PAIR #16AWG FPL TWISTED NON-SHIELDED	FIRE ALARM DATA & INITIATING CIRCUIT - SLC LOOP ATLAS #218-16-1-1TP
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H. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

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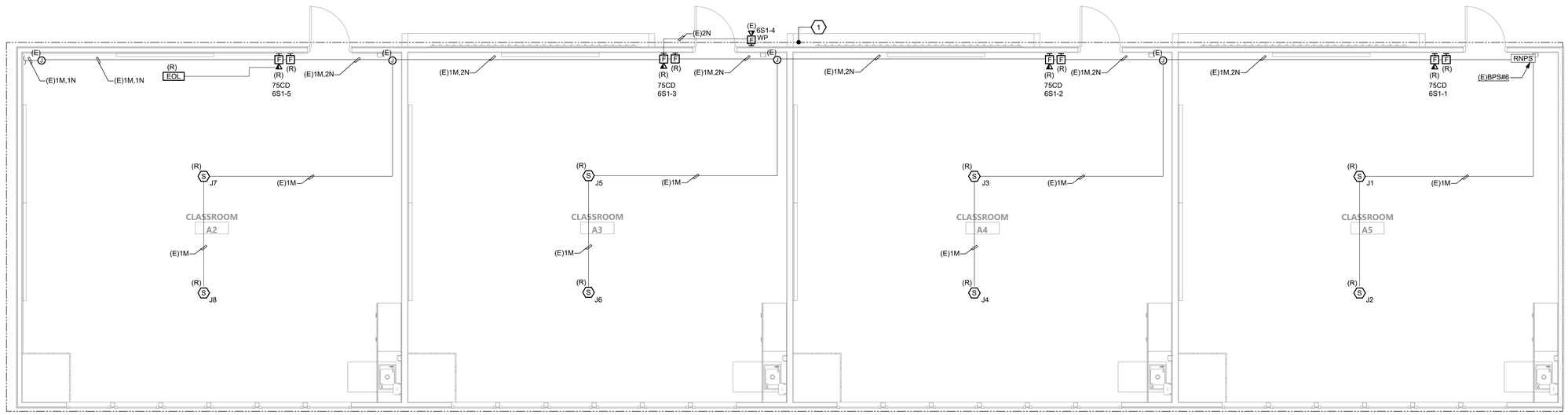

1 **BLDG 6 - FIRE ALARM PLAN**
1/4" = 1'-0"

AGENCY APPROVAL DSA# 01-121440

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
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LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
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SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F203

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWG\RIo Vista\Inc 2\2347.50 - RV - 2F200 - Fire Alarm Plan.dwg
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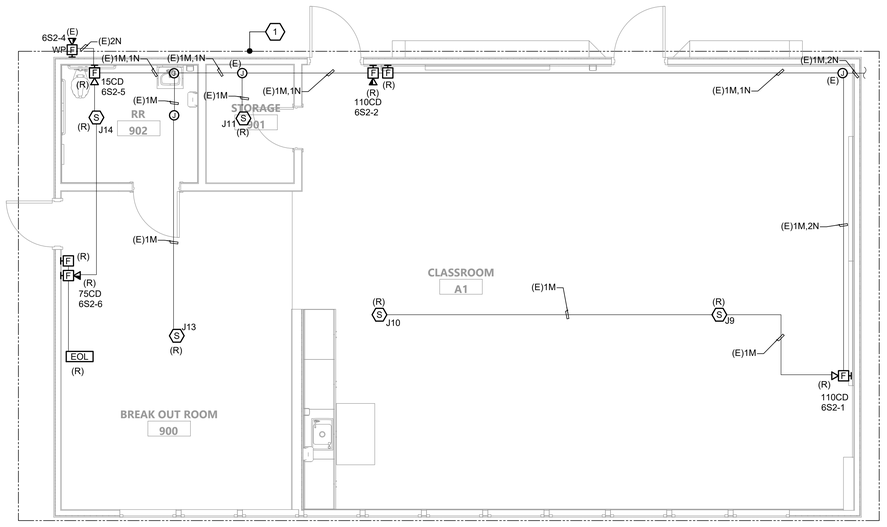
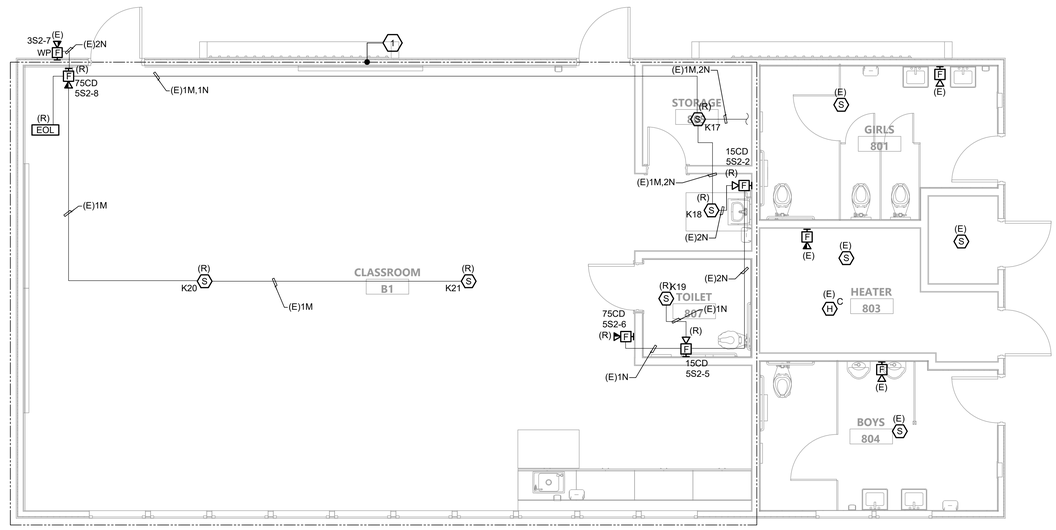


1 BLDG 9 - FIRE ALARM PLAN

1/4" = 1'-0"



2 BLDG 8 - FIRE ALARM PLAN

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SAN JOSE, CA 95126
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CONSULTANTS

CIVIL ENGINEER
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SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F204

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\Inc 2\2347.50 - RV - 2F200 - Fire Alarm Plan.dwg
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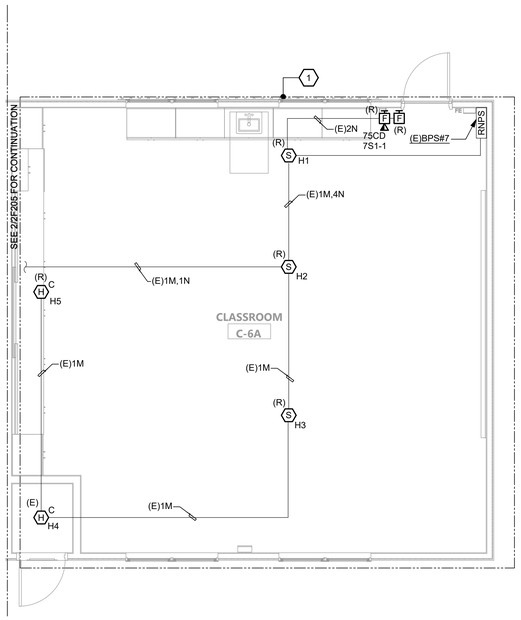
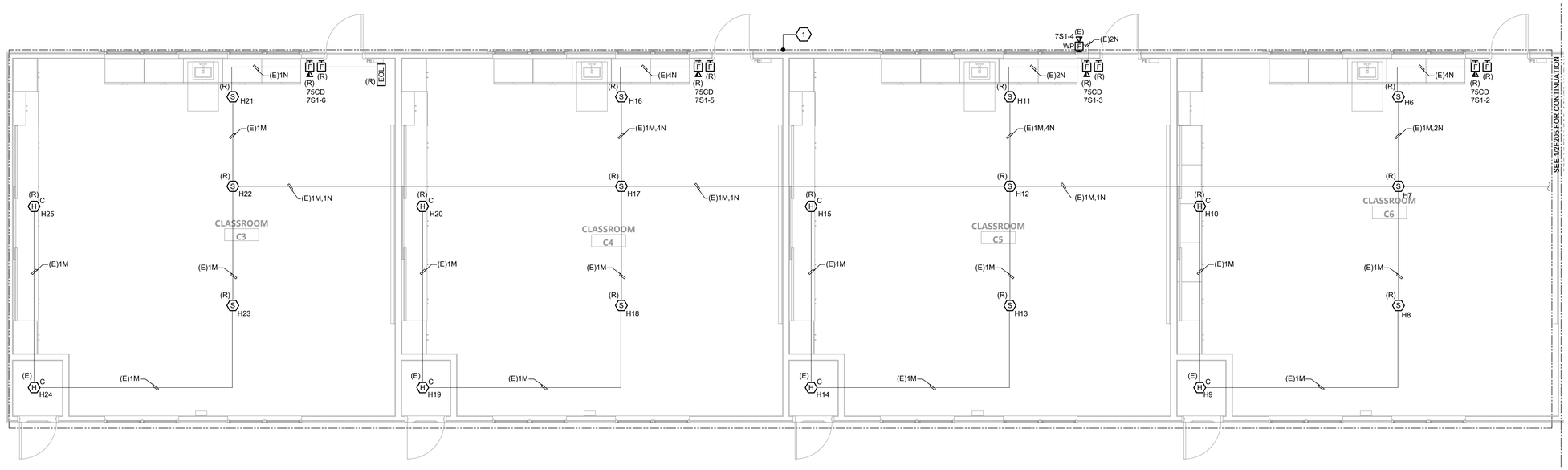


1 BLDG 10 - FIRE ALARM PLAN

1/4" = 1'-0"



2 BLDG 10 - FIRE ALARM PLAN

1/4" = 1'-0"

INTERIOR FIRE ALARM CABLE

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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
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SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F205

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 080524105_Drawings\01_DWG's\Rio Vista\Inc 2\2347.50 - RV - 2F200 - Fire Alarm Plan.dwg
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FIRE ALARM SYMBOLS:

x–y WP	EXTERIOR HORN WITH WEATHERPROOF BACK BOX, WALL MOUNTED AT 90" AFG, TO TOP OF DEVICE (EST #757–1A–T) x = NOTIFICATION ALARM CIRCUIT NUMBER y = DEVICE NUMBER WP = WEATHERPROOF

x–y 75	VISUAL STROBE WALL MOUNTED, +80" AFF, TO BOTTOM OF DEVICE (EST #G1R–V)
	x = NOTIFICATION ALARM CIRCUIT NUMBER
	y = DEVICE NUMBER
	75 = 75 CANDELA

x–y V 75	TEMPORAL HORN/STROBE, +80" AFF (EST #G1R–HV)
	75 = 75 CANDELA
	x = NOTIFICATION ALARM CIRCUIT NUMBER
	y = DEVICE NUMBER

x–y 110	HIGH OUTPUT TEMPORAL HORN/STROBE +80"AFF (EST #G1R–HOV)
	x = NOTIFICATION ALARM CIRCUIT NUMBER
	y = DEVICE NUMBER
	110= 110 CANDELA

	EXISTING MANUAL FIRE ALARM PULL STATION TO BE REMOVED.
F A1	ADDRESSABLE MANUAL PULL STATION, FLUSH, +48" AFF (UON) TO CENTERLINE (EST #278) A1 = ADDRESSABLE LOOP #A, DEVICE #1

A1 S	ADDRESSABLE COMBINATION IONIZATION/PHOTELECTRIC SMOKE DETECTOR (EST #SGA–IPHS)
	A1 = ADDRESSABLE LOOP #A, DEVICE #1

D1 DK	ADDRESSABLE SMOKE DUCT DETECTOR (EST #SIGA–DH, #SIGA–PS)
	D1 = ADDRESSABLE LOOP #D, DEVICES #1

A1 H	135°F FIXED/RATE OF RISE TEMPERATURE ADDRESSABLE HEAT DETECTOR SURFACE CEILING MOUNTED (EST #SIGA–HRS)
	A1 = ADDRESSABLE LOOP #A, DEVICE #1

A1/1 HA	200° F FIXED TEMPERATURE AND RATE–OF–RISE NON ADDRESSABLE HEAT DETECTOR INSTALLED ABOVE T–BAR CEILING OR IN ATTIC SPACE AND CONNECTED VIA ADDRESSABLE MONITOR MODULE (EST #282B–PL). PROVIDE BLUE DOT ON CEILING WHERE DETECTOR IS INSTALLED ABOVE. A1/1 = ADDRESSABLE LOOP #A, ADDRESSABLE MONITOR MODULE #1 NON–ADDRESSABLE DEVICE #1 HA = ATTIC SPACE

A1/1 200 WP H	200°F FIXED TEMPERATURE NON–ADDRESSABLE HEAT DETECTOR SURFACE CEILING MOUNTED (U.O.N.), CONNECTED VIA ADDRESSABLE MONITOR MODULE (EST #284B–PL)
	A1/1=ADDRESSABLE LOOP #A, ADDRESSABLE MONITOR MODULE #1, NON ADDRESSABLE DEVICE #1
	WP = WEATHERPROOF

A1 HF	135°F FIXED TEMPERATURE ADDRESSABLE HEAT DETECTOR CEILING MOUNTED, (EST #SIGA–HFS)
	A1 = ADDRESSABLE LOOP #A, DEVICE #1
	A1 = ADDRESSABLE INITIATING DEVICE #1

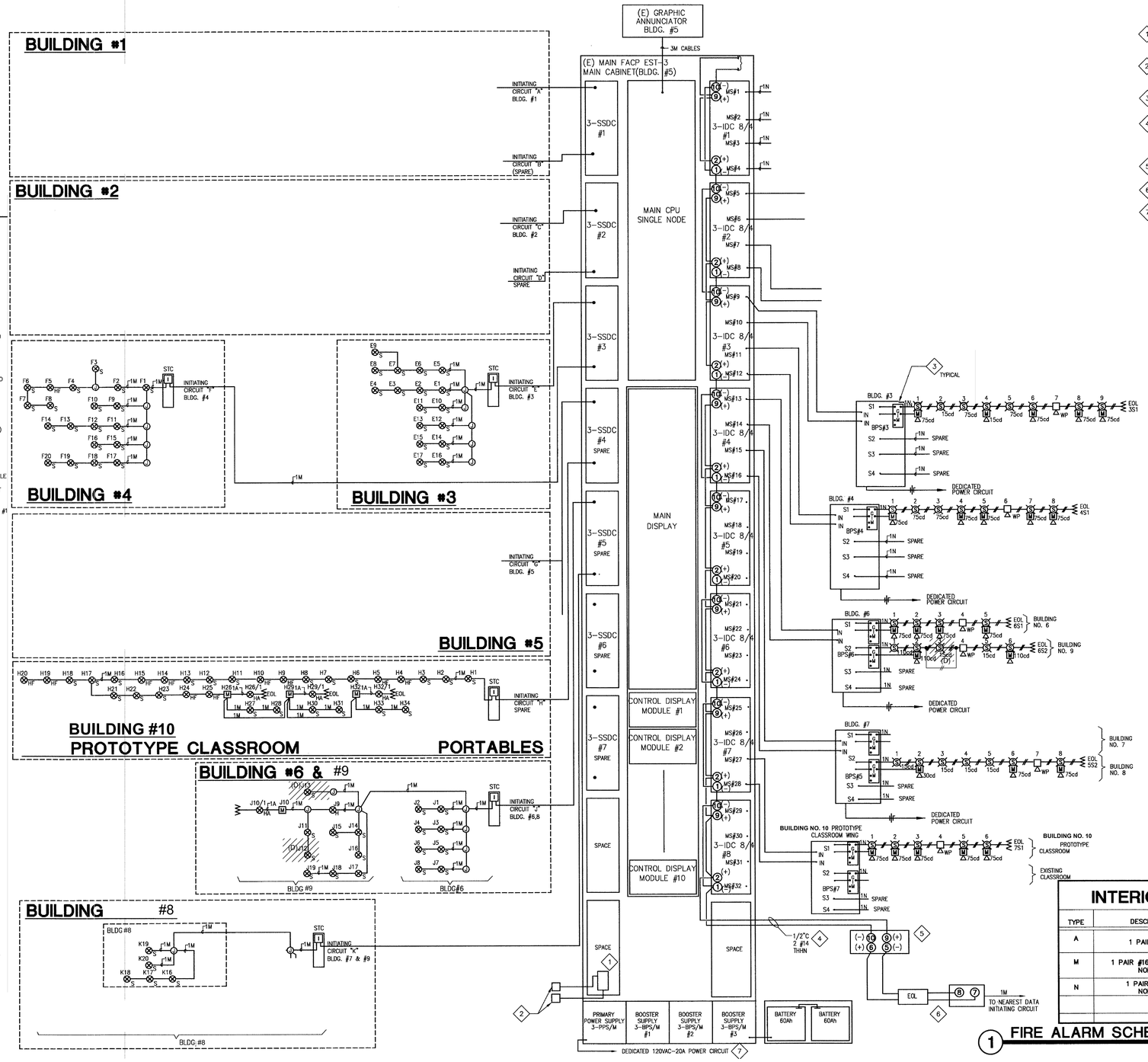
A1 C	FIRE ALARM CONTROL MODULE EST # SIGA–CC1.
	A1 = ADDRESSABLE LOOP #A, ADDRESSABLE MODULE #1

A1 M	ADDRESSABLE INPUT MONITOR MODULE EST # SIGA–CTI OR CT2.
	A1 = ADDRESSABLE LOOP #A, ADDRESSABLE MODULE #1

A1 R	ADDRESSABLE RELAY MODULE EST # SIGA–CR.
	A1 = ADDRESSABLE LOOP #A, ADDRESSABLE MODULE #1

A1 I	ADDRESSABLE FAULT ISOLATOR MODULE EST # SIGA–IM.
	A1 = ADDRESSABLE LOOP #A, ADDRESSABLE MODULE #1

PIV	POST INDICATOR VALVE
TS	TAMPER SWITCH
FS	FLOW SWITCH
(N) BPS	BOOSTER POWER SUPPLY (EST #BPS–10) (N) = NEW
EOL	END OF LINE RESISTOR
J	JUNCTION BOX CEILING MOUNTED
J WP	EXTERIOR JUNCTION BOX NEMA 3R WP = WEATHERPROOF
	NEW FA CONDUIT WITH CONDUCTORS INSTALLED CONCEALED UNDERGROUND
E	EXISTING FA CONDUIT WITH CONDUCTORS INSTALLED EXPOSED
E	EXISTING FA CONDUIT WITH NEW CONDUCTORS INSTALLED UNDERGROUND
	CONDUIT TURNING DOWN
AC 1	MECHANICAL EQUIPMENT DESIGNATION. AC–1 SHOWN.
1	SHEET NOTE TAG
1 FS.1	DETAIL REFERANCE NUMBER DETAIL NUMBER AND SHEET NUMBER.
A	ADDRESSABLE INITIATING CIRCUIT DESIGNATION ON SITE PLAN A= ADDRESSABLE INITIATING CIRCUIT "A"



INTERIOR FIRE ALARM CABLE

TYPE	DESCRIPTION	USE(S)
A	1 PAIR #16AWG FPL	FIRE ALARM INITIATING DEVICE CIRCUIT (NON–ADDRESSABLE) ATLAS #202–16–1–2J
M	1 PAIR #16AWG FPL TWISTED NON–SHIELDED	FIRE ALARM DATA & INITIATING CIRCUIT – SLC LOOP ATLAS 218–16–1–1TP
N	1 PAIR #12 AWG, FPL NON–SHIELDED	FIRE ALARM NOTIFICATION CIRCUIT ATLAS #202–12–1–2J

1 FIRE ALARM SCHEMATIC DIAGRAM

GENERAL NOTES

A. SEE DSA APPLICATION# 01-105316.

B. EXISTING EQUIPMENT AND DEVICES SHOWN UNLESS OTHERWISE NOTED.

SHEET NOTES:

1. EXISTING MODEM COMMUNICATOR DIALER (DACT) EST #3–MODCOM FOR CONNECTION TO THE CENTRAL MONITORING STATIONS.
2. EXISTING TWO TELEPHONE LINES FROM THE MAIN TELEPHONE BOARD (1 2 PAIR #22 EACH) FOR CONNECTION TO THE CENTRAL MONITORING STATION.
3. EXISTING SIGNAL MASTER SYNCHRONIZATION MODULE EST #G1M–RM. INSTALL MODULE INSIDE OF BOOSTER ENCLOSURE.
4. EXISTING EQUIPMENT, MATERIALS AND CONNECTIONS NECESSARY (WHETHER SHOWN ON RISER DIAGRAM OR NOT) TO SYNCHRONIZE ALL EXISTING AND NEW FIRE ALARM NOTIFICATION DEVICES THROUGHOUT THE CAMPUS. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
5. EXISTING ADDRESSABLE SYNCHRONIZED MODULE EST # SIGA – CC1S
6. EXISTING ADDRESSABLE INPUT MODULE EXT # SIGA –CT1.
7. EXISTING CIRCUIT FOR NEW FIRE ALARM CONTROL PANEL.

AGENCY APPROVAL DSA# 01-121440

196

991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

ELECTRICAL ENGINEER
ATIUM ENGINEERING
3533 York Ln.
San Ramon, CA 94582
TEL (913) 961-1658

STRUCTURAL ENGINEER
BASE Design Inc.
582 Market St. Ste 1402
San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
DIAGRAMS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.
2F301

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 08052405_Drawings\01_DWG\Rio Vista\inc 2\23471.50 - RV - 2F000 - General Information.dwg
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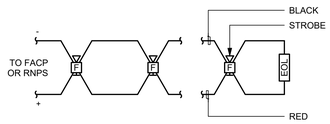
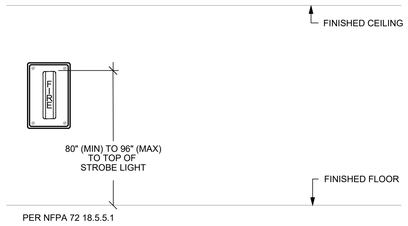
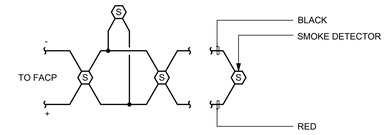


TYPICAL STROBE WIRING DIAGRAM

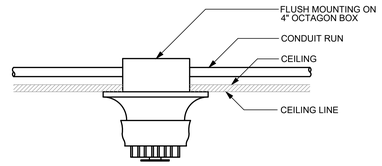


4 STROBE INSTALLATION

NOT TO SCALE

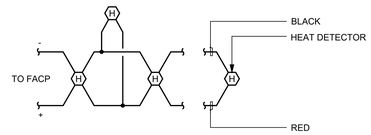


TYPICAL SMOKE DETECTOR WIRING DIAGRAM

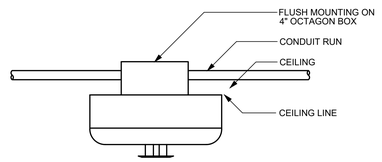


1 ADDRESSABLE SMOKE DETECTOR INSTALLATION

NOT TO SCALE



TYPICAL HEAT DETECTOR WIRING DIAGRAM



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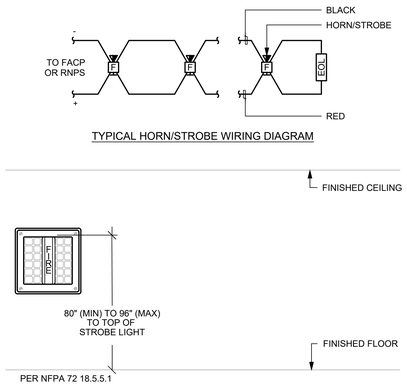
NOT TO SCALE



TYPICAL HORN/STROBE WIRING DIAGRAM

3 2 WIRE HORN/STROBE INSTALLATION

NOT TO SCALE

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991 W HEDDING STREET, SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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SHEET TITLE

DETAILS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23118.02

SHEET NO.

2F401

DATE: AUGUST 28, 2024

FILE LOCATION: C:\Users\116503\OneDrive\Desktop\mt diablo\CAD 080524\05_Drawings\01_DWGs\Rio Vista\Inc 2\23347.50 - RV - 2F400 - Details.dwg
LAST SAVED ON: 9/19/24 at 7:46pm, PLOTTED ON: 9/24/24 at 8:16pm

DATE PLOTTED:

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ABBREVIATIONS:

REVISED: 09/20/2023

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANN	ANNUNCIATOR
AP	ACCESS POINT
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BICSI	BUILDING INDUSTRY CONSTRUCTION SERVICE INTERNATIONAL
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAT	CATEGORY
CATV	CABLE TELEVISION
CD	CANDELA
CFCI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CL	CENTER LINE
CO	CARBON MONOXIDE
DN	DOWN
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FTC	FIRE TERMINAL CABINET
GRC	GALVANIZED RIGID CONDUIT
G OR GB	GROUND BOX
IACP	INTRUSION ALARM CONTROL PANEL
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
J OR JB	JUNCTION BOX
MEP	MECHANICAL / ELECTRICAL / PLUMBING
MDF	MAIN DISTRIBUTION FRAME
MPOE	MINIMUM PONT OF ENTRY
(N)	NEW
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
OFE	OWNER FURNISHED EQUIPMENT
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/OWNER INSTALLED
OSP	OUTSIDE PLANT
PVC	POLYVINYL CHLORIDE
RCDD	REGISTERED COMMUNICATION DISTRIBUTION DESIGNER
RCWY	RACEWAY
RM	ROOM
SR	SURFACE RACEWAY
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRIGHTERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATT
WP	WEATHERPROOF

TECHNOLOGY SYMBOL LEGEND:

ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)

SYMBOL	DESCRIPTION	MFG/MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
R	DATA RACK	PANDUIT	SEE 27 10 00	SEE SINGLE LINE (1 2T-803) (2 2T-803)
G	GROUND BOX	EXISTING	EXISTING	N/A
J	JUNCTION BOX	COMMERCIAL GENERIC	N/A	GREY = EXISTING (8 2T-803)
	UNDERGROUND CONDUIT	COMMERCIAL GENERIC	N/A	GREY = EXISTING
	CONDUIT (EMT & GRC)	COMMERCIAL GENERIC	N/A	GREY = EXISTING (9 2T-803) (12 2T-803) (13 2T-803)
E	CONDUIT STUB	COMMERCIAL GENERIC	N/A	GREY = EXISTING
2300	SURFACE RACEWAY	WIREMOLD	WM2300	N/A (4 2T-801)
J J J	J-HOOK (SINGLE/STACKED)	PANDUIT	SEE 27 05 00	N/A (3 2T-803)
5400	SURFACE RACEWAY	WIREMOLD	WM5400	COORDINATE W/ ELEC. (1 2T-801)
#	CAT6A DATA DROP LOCATION (# = QTY) - DATA PERMANENT LINK	PANDUIT	SEE 27 10 00	N/A (7 2T-801)
M	MODULAR PLUG DATA PERMANENT LINK, CAT6A JACK / CABLE / MOD PLUG	PANDUIT	SEE 27 10 00	N/A
B	FUTURE DATA LOCATION. PATHWAY ONLY WITH BLANK COVER	N/A	N/A	N/A
AP	DATA LOCATION, CAT6A JACK/CABLE, CEILING, QTY 2	PANDUIT	SEE 27 10 00	N/A (5 2T-801) (6 2T-801) (9 2T-801)
	INTERIOR WIRELESS ACCESS POINT	ARUBA	OFCI	OFCI
	MOUNT	ARUBA	S0J40A	N/A
WP AP	CAT6A DATA DROP LOCATION (QTY = 2) - EXTERIOR WIRELESS ACCESS POINT	PANDUIT	SEE 27 10 00	N/A (10 2T-801)
	EXTERIOR WIRELESS ACCESS POINT	ARUBA	OFCI	OFCI
	MOUNT	ARUBA	R9H97A	N/A
W	CAT6A DATA DROP LOCATION (QTY = 1) - IP PHONE	PANDUIT	SEE 27 10 00	+48 AFF, PHONE PLATE (11 2T-801)
	PHONE HANDSET EQUIPMENT (WALL MOUNT)	POLY	OFCI	OFCI
CAM-# TYPE	CAT6A DATA DROP LOCATION (QTY = 1) - NETWORK CAMERA	PANDUIT	SEE 27 10 00	N/A (6 2T-801) (2 2T-801) (1 2T-802) (2 2T-802)
	NETWORK CAMERA	AXIS	OFCI	OFCI
	MOUNT	AXIS	SEE 28 20 00	N/A
STC	SIGNAL TERMINAL CABINET	EXISTING	EXISTING	N/A
TGB	GROUND BUS BAR	PANDUIT	SEE 27 10 00	N/A (10 2T-803) (11 2T-803)
IP SPEAKER	CAT6A DATA DROP LOCATION (QTY = 1) - IP CLOCK/SPEAKER/IP MODULE COMBO BOX	ATLAS	SEE SHEET 2T-701	N/A (8 2T-803)
WP	CAT6A DATA DROP LOCATION - EXTERIOR INTERCOM SPEAKER/IP MODULE	ATLAS	SEE SHEET 2T-701	N/A (4 2T-803)
TEL	PHONE HANDSET EQUIPMENT	POLY	OFCI	OFCI
MPOE	MINIMUM POINT OF ENTRY	EXISTING	EXISTING	N/A

INTRUSION SYMBOL LEGEND:

ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL / PART NUMBER	NOTES / DETAIL REFERENCES
IACP	INTRUSION ALARM CONTROL PANEL	BOSCH	D9412GV4	EXISTING
	CONTROL PANEL ENCLOSURE	BOSCH	D8103	EXISTING
	CONTROL PANEL ENCLOSURE LOCK/KEY	BOSCH	D101	EXISTING
	DUAL BATTERY HARNESS	BOSCH	D122	EXISTING
	POWER SUPPLY / ENCLOSURE	BOSCH	D1640/D8109	EXISTING
	POPEX LOOP MODULE	BOSCH	B299	N/A
	BATTERY 12VDC, 8 AH	POWERSONIC	PS-1280	N/A
KP	ALPHANUMERIC KEYPAD	BOSCH	B930	EXISTING
	MOTION DETECTOR, WALL MOUNT	BOSCH	ZX835	N/A (7 2T-802) (14 2T-802)
	WALL MOUNT GIMBLE	BOSCH	B328	
DC	DOOR CONTACT	GEORGE RISK INDUSTRIES	195-12WG	N/A
	POPIT MODULE	BOSCH	D9127U	
	CABLE 18AWG/2-CONDUCTOR - INTERIOR	WEST PENN	224	COLOR = WHITE
	CABLE 18AWG/2-CONDUCTOR - OSP	WEST PENN	AQ-224	N/A
	CABLE 18AWG/4-CONDUCTOR - INTERIOR	WEST PENN	244	COLOR = GRAY
	CABLE 18AWG/4-CONDUCTOR - OSP	WEST PENN	AQ-244	N/A

TECHNOLOGY SCOPE OF WORK:

1. THE CONTRACTOR SHALL FULLY RE-CABLE THE DATA NETWORK, INCLUDING COPPER AND FIBER, UTILIZING A COMBINATION OF NEW AND EXISTING PATHWAY.
2. ALL EQUIPMENT SHALL BE NEW AND CONTRACTOR FURNISHED, UNO.
3. THE CONTRACTOR SHALL REMOVE OLD OR ABANDONED DATA NETWORK AND AUDIO/VISUAL COMPONENTS, INCLUDING DEVICES, MOUNTS, ENCLOSURES, WIRE AND PATHWAY.
4. THE CONTRACTOR SHALL COORDINATE CUTOVERS AND ACTIVATION/COMMISSIONING OF NEW SYSTEMS WITH DISTRICT REPRESENTATIVE AND DISTRICT STAFF.

ANCHORAGE AND BRACING NOTES:

APPLICABLE CODE: 2022 CBC REVISED: 04/03/2024

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 THRU 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVEABLE 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 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 COMPONENTS.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK AND ELECTRICAL SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTIONS 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5,13.6.6, 13.6.7, 13.6.8 AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTIONS SYSTEM ARE A NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MP ☐ MD ☐ PP ☐ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #)

PRE-CON MEETING REQUIREMENTS:

1. PRIOR TO BEGINNING ANY SITE WORK, INCLUDING DEMO, AN ON-SITE PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE LOW VOLTAGE DESIGNER. ANY SITE WORK COMMENCED PRIOR TO THIS MEETING SHALL BE AT THE CONTRACTOR'S SOLE RISK.

JOB SPECIFIC STANDARDS FOR LOW VOLTAGE:

SEE SPECIFICATIONS DIVISION 27 AND 28 FOR COMPLETE REQUIREMENTS.

1. CONDUIT BODIES, CONDULETS, PULLING ELBOWS, AND/OR "LB" FITTINGS ARE PROHIBITED IN ANY PATHWAY CONTAINING DATA CABLING (COPPER OR FIBER).
2. SINGLE HOLE CONDUIT STRAPS ARE PROHIBITED.
3. ALL WIRE AND CABLE PASSING THROUGH METALWORK SHALL BE SLEEVED WITH AN APPROPRIATE GROMMET OR BUSHING.

INTRUSION ALARM SCOPE OF WORK:

1. CONTRACTOR SHALL PROVIDE (N) MOTION DETECTORS, DOOR CONTACTS, MODULES, PATHWAY, CABLING, MOUNTS, AND OTHER COMPONENTS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL INTRUSION SYSTEM, INCLUDING ANY REQUIRED COMPONENTS NOT SPECIFICALLY NOTED ON THE DRAWINGS.
2. CONTRACTOR SHALL SEAMLESSLY INTEGRATE THE (N) COMPONENTS WITH THE EXISTING BOSCH INTRUSION SYSTEM.
3. CONTRACTOR SHALL PROVIDE ALL PROGRAMMING TO REMOVE DEMOED DEVICES FROM THE SYSTEM AND INTEGRATE NEW DEVICES WITH THE SYSTEM. CONTRACTOR SHALL VERIFY ALL DEVICE NAMES, IDS, AND ROOM NUMBERS SITE WIDE AND UPDATE AS REQUIRED TO MATCH THE CURRENT PLAN SET.

PROJECT CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AND STANDARDS EFFECTIVE JANUARY 1, 2022:
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CCR, TITLE 24, PART 1
2022 CALIFORNIA BUILDING CODE (CBC), CCR, TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), CCR, TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), CCR, TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE, WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), CCR, TITLE 24, PART 5 (2018 UNIFORM PLUMBING CODE, WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6
2022 CALIFORNIA FIRE CODE (CFC), CCR, TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, PART 11
2022 CALIFORNIA REFERENCED STANDARDS CODE, CCR, TITLE 24, PART 12
2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION

PROJECT NOTES:

PRODUCT ORDERING
1. ANY PRODUCTS WITH LONG LEAD TIMES SHALL BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION.
2. PRODUCT ORDERING SHALL ONLY OCCUR AFTER APPROVED PRODUCT SUBMITTALS, APPROVED SUBSTITUTION REQUEST (IF ANY) AND APPROVED SHOP DRAWINGS.

INSTALLATION
1. ANY DISCREPANCIES BETWEEN THE DESIGN DOCUMENTS AND GOVERNING CODE / STANDARDS SHALL BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION.
2. A STAMPED SET OF APPROVED DESIGN DOCUMENTS AND SHOP DRAWINGS SHALL BE ONSITE AT ALL TIMES.
3. CONTRACTOR SHALL CONSTANTLY MAINTAIN ONSITE REDLINE DRAWINGS AND BE AVAILABLE FOR INSPECTION BY THE INSPECTOR OF RECORD.
4. ANY PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRE MATERIALS / EQUIPMENT APPROVED TO MAINTAIN THE RATING OF THE ASSEMBLY.
5. ALL WIRING SHALL BE CONNECTED TO DEVICES, NO SPLICING IS ALLOWED.
6. ALL LOW-VOLTAGE CABLING SHALL BE IN CONDUIT, RACEWAY OR OPEN AIR ON J-HOOKS / CABLE TRAY FOR ABOVE CEILINGS.
7. POWER FOR LOW-VOLTAGE SYSTEMS TO BE DEDICATED TO EACH SYSTEM AND WORK TO BE PERFORMED BY A LICENSED ELECTRICIAN.
8. LOW VOLTAGE EQUIPMENT, CABINETS AND ACCESSORIES TO BE MOUNTED PER MANUFACTURER'S INSTRUCTIONS. NO SINGLE DEVICE SHALL EXCEED 20 POUNDS IN WEIGHT WITHOUT SPECIAL MOUNTING DETAILS.
9. CONTRACTOR SHALL REQUEST A PUNCH WALK INSPECTION 10 WORKING DAYS PRIOR TO FINAL INSPECTION.
10. PRIOR TO FINAL INSPECTION CONTRACTOR SHALL PROVIDE PRINTED REDLINES FOR USE BY THE INSPECTORS.
11. AT THE FINAL INSPECTION THE CONTRACTOR SHALL PROVIDE A SATISFACTORY TEST OF THE ENTIRE SYSTEM(S) IN PRESENCE OF THE DESIGNER/ENGINEER, INSPECTOR OF RECORD, THE OWNER OR THE OWNER'S REPRESENTATIVE.
12. THE CONTRACTOR SHALL PROVIDE OWNER WITH SYSTEM OPERATION TRAINING.

CONTRACTOR FURNISHED DOCUMENTS:

SEE SECTION 27 00 00 FOR MORE INFORMATION / REQUIREMENTS

PRODUCT SUBMITTALS
1. SUBMIT PRODUCT MATERIALS SUBMITTALS PER 27 00 00 REQUIREMENTS
2. ANY PROPOSED ALTERNATIVE PRODUCTS REQUIRE A WRITTEN PRODUCT SUBSTITUTION REQUEST.

SHOP DRAWINGS
1. SUBMIT SHOP DRAWINGS PER 27 00 00 REQUIREMENTS
2. SHOP DRAWINGS ARE REQUIRED FOR MDF/IDF DATA RACK LAYOUTS, MDF/IDF WALL ELEVATIONS, AUDIO-VISUAL SYSTEMS AND INTERCOM SYSTEMS.
3. DESIGN DOCUMENTS ARE AS ACCURATE AS POSSIBLE, BUT SHALL BE CONSIDERED AS DIAGRAMMATIC.
4. SHOP DRAWINGS SHALL PRESENT A LEVEL OF DETAIL FOR A COMPLETE, BUILDABLE AND OPERABLE SYSTEM.
5. SHOP DRAWINGS ALLOW THE CONTRACTOR TO MAKE CORRECTIONS FOR ERRORS/OMISSIONS IN DESIGN DOCUMENTS.
6. IN CASE OF DOUBT OF WORK INTENDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST INSTRUCTIONS FROM THE PROJECT MANAGER.
7. APPROVED SHOP DRAWINGS ARE REQUIRED PRIOR TO START OF WORK. ANY WORK STARTED PRIOR TO SHOP DRAWING APPROVAL SHALL BE AT CONTRACTOR'S OWN RISK.
8. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE AND OPERABLE SYSTEM AND ANY COMPONENT(S) NEEDED FOR A COMPLETE AND OPERABLE SYSTEM AFTER SHOP DRAWING APPROVAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

CONTRACTOR CERTIFICATION
1. STRUCTURED DATA CABLING AND INTERCOM SYSTEMS REQUIRE CERTIFIED INSTALLERS. CONTRACTOR TO PROVIDE CERTIFICATIONS PRIOR TO START OF WORK.
2. CONTRACTOR SHALL ONLY PROVIDE WORK FOR SYSTEMS THAT THEY POSSESS CURRENT AND VALID CERTIFICATIONS.

CLOSEOUT DOCUMENTS
1. DOCUMENTS PER 27 00 00 REQUIREMENTS
2. UPDATED PRINTED AS-BUILT DRAWINGS
3. TYPED RECORD OF COMPLETION

TECHNOLOGY SHEET INDEX:

SHEET	DESCRIPTION
2T-000	TECHNOLOGY INFRASTRUCTURE COVER SHEET
2T-010	TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO
2T-020	TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO
2T-021	TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO
2T-100	TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW
2T-200	TECHNOLOGY INFRASTRUCTURE FLOOR PLANS NEW
2T-201	TECHNOLOGY INFRASTRUCTURE FLOOR PLANS NEW
2T-300	TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW
2T-301	TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW
2T-700	TECHNOLOGY INFRASTRUCTURE SINGLE LINES
2T-701	TECHNOLOGY INFRASTRUCTURE SINGLE LINES
2T-800	TECHNOLOGY INFRASTRUCTURE DETAILS
2T-801	TECHNOLOGY INFRASTRUCTURE DETAILS
2T-802	TECHNOLOGY INFRASTRUCTURE DETAILS
2T-803	TECHNOLOGY INFRASTRUCTURE DETAILS

AGENCY APPROVAL DSA# 01-121440

1996
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

KMM Services Inc.
TECHNOLOGY&FIRE LIFE SAFETY
5433 El Camino Ave. Suite 5
Carmichael, CA 95608
Office: (916) 359-4000
www.kmmservices.com

CONSULTANTS

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CARROLL ENGINEERING
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San Jose, CA 95128
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KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

PROFESSIONAL STAMP

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI
JENNY KOSTROM
Signature
EXPIRES 12/31/24
Regis. No.103629

REVISIONS

#

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE COVER SHEET

INC 2

DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

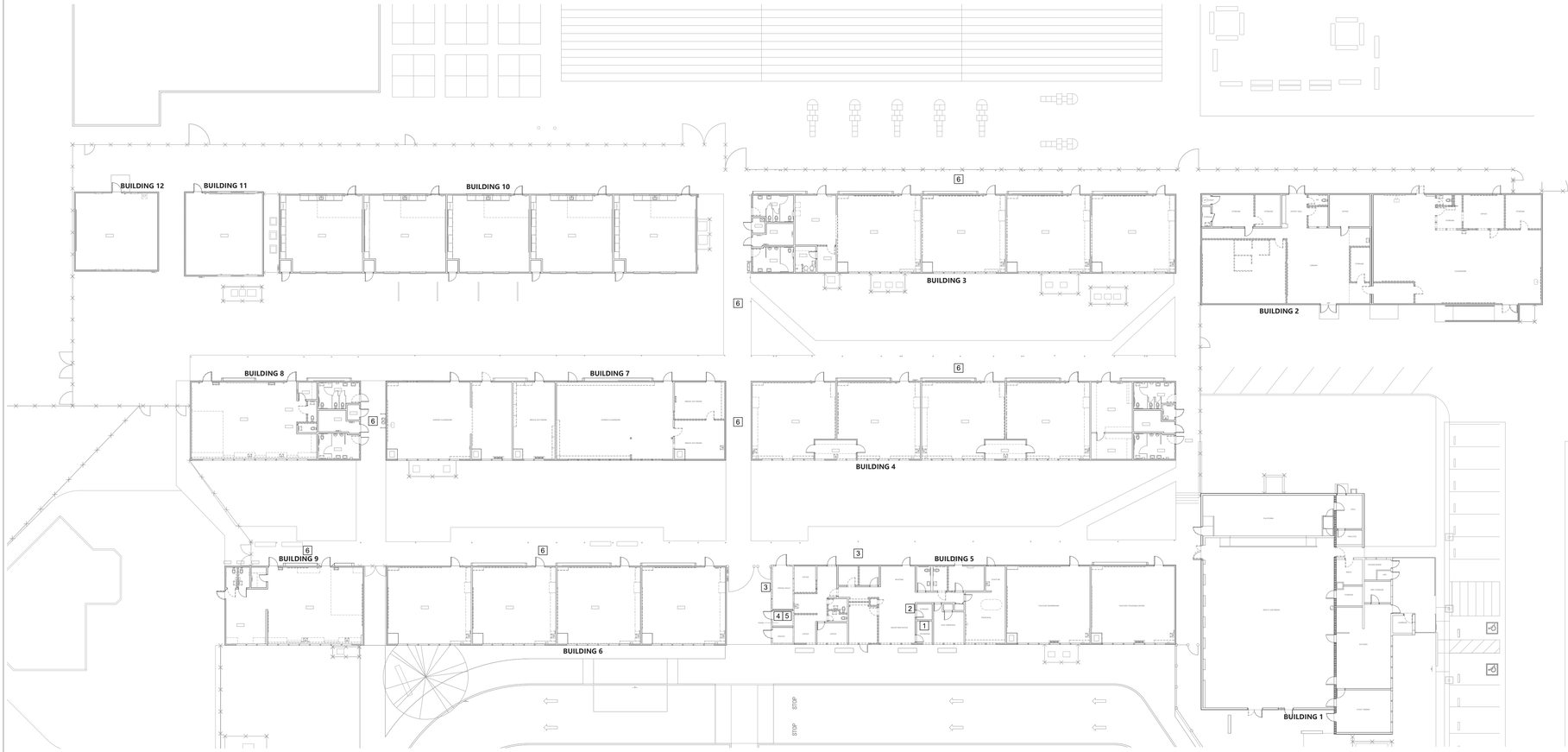
SHEET NO.

2T-000

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/24/2024 8:49:58 AM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



GENERAL NOTES:

1. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) DATA NETWORK COPPER AND FIBER CABLING, SERVING BUILDINGS IN THIS INCREMENT, INCLUDING WITHIN CONDUITS AND PULL BOXES. CARE SHALL BE TAKEN NOT TO DISTURB OR DAMAGE ACTIVE SYSTEMS. COORDINATE WITH DISTRICT REPRESENTATIVE PRIOR TO DEMO.
2. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) ANALOG TELEPHONE CABLING SERVING BUILDINGS IN THIS INCREMENT, INCLUDING WITHIN CONDUITS AND PULL BOXES. PROVIDE BLANK WALL PLATE AT ALL LOCATIONS, RETURN ANALOG PHONES TO DISTRICT.
3. CONTRACTOR TO REMOVE AND RETURN TO DISTRICT ALL (E) VIDEO PROJECTORS, A/V CABLING, CONTROL PANELS, INPUT STATIONS, AND LAPTOP DESKS. PATCH AND PREP FOR PAINT.
4. CONTRACTOR TO REMOVE AND DISPOSE OF ALL UNUSED OR ABANDONED SURFACE RACEWAY. PATCH AND PREP FOR PAINT.
5. CONTRACTOR TO RETURN REMOVED EQUIPMENT IN EXISTING WORKING ORDER. CARE SHALL BE TAKEN NOT TO DAMAGE REMOVED EQUIPMENT. EQUIPMENT SHALL BE LABELED WITH SITE NAME AND BOXED UP PRIOR TO RETURNING TO DISTRICT.
6. ALL EQUIPMENT SHALL BE RETURNED TO MDUSD. CONTACT DISTRICT REPRESENTATIVE COORDINATE RETURN PROCEDURE.
7. CONTRACTOR TO PROVIDE (N) BLANKING PLATES AND/OR (N) CHANNEL COVERS FOR (E) DATA LOCATIONS REMOVED FROM SURFACE RACEWAY AS A RESULT OF DEMO.
8. CONTRACTOR TO REMOVE AND RETURN TO DISTRICT ALL (E) WIRELESS APS AND MOUNTS. PATCH AND PREP FOR PAINT.
9. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) ANALOG INTERCOM AND CLOCK CABLING FROM ENDPOINT TO ENDPOINT, INCLUDING WITHIN CONDUITS AND PULL BOXES.
10. CONTRACTOR TO REMOVE AND RETURN TO DISTRICT ALL (E) ANALOG CLOCKS, SPEAKERS, AND SURFACE BACKBOXES. PATCH AND PREP FOR PAINT.
11. CONTRACTOR TO REMOVE AND DISPOSE OF ALL CABLE OPEN-RUN AND STAPLED TO BUILDING EXTERIOR. REMOVE CABLE FROM ENDPOINT TO ENDPOINT. PATCH PENETRATIONS AND PREP FOR PAINT. SEE PICTURE DETAIL.
12. CONTRACTOR TO REMOVE AND DISPOSE OF ALL ABANDONED OR INACTIVE INTRUSION SYSTEM COMPONENTS INCLUDING ABANDONED RACEWAY, CABINETS, AND WIRING.

SHEET NOTES:

1. DEMO ALL ANALOG INTERCOM FEEDERS, 66-BLOCKS, AND BACKBOARDS AT THIS LOCATION AFTER (N) IP INTERCOM SYSTEM IS FULLY OPERATIONAL. CABLING TO BE REMOVED FROM ENDPOINT TO ENDPOINT INCLUDING WITHIN CONDUITS AND PULL BOXES. PATCH AND PAINT CONDUIT ACCESS WALL OPENING.
2. DEMO ABANDONED INTERCOM CONDUIT ABOVE ACCESSIBLE CEILING AND PENETRATION TO EXTERIOR. PATCH, PAINT, AND MAKE WATERPROOF.
3. DEMO ABANDONED INTERCOM CONDUIT AND J-BOXES ON ROOF AND WALL. PATCH AND PAINT.
4. DEMO BOGEN INTERCOM HEADEND AND RETURN TO DISTRICT AFTER (N) IP INTERCOM SYSTEM IS FULLY OPERATIONAL. DEMO ALL ANALOG INTERCOM FEEDERS AND 66-BLOCKS.
5. DEMO ANALOG PHONE PBX, FEEDER, AND STATION CABLING. COORDINATE WITH DISTRICT REPRESENATIVE PRIOR TO DEMO. DO NOT DEMO MPOE OR ACTIVE ANALOG LINES TO MDF/FACP/IACP.
6. DEMO ABANDONED CONDUITS AND PULL BOXES, ON ROOF OR WALL, AS OCCURS. PATCH AND PREP FOR PAINT. NO DEMO IS TO OCCUR UNTIL NEW PATHWAY AND SYSTEMS ARE FULLY OPERATIONAL. COORDINATE WITH DISTRICT REPRESENTATIVE PRIOR TO DEMO.



OPEN-RUN EXTERIOR CABLE PICTURE DETAIL

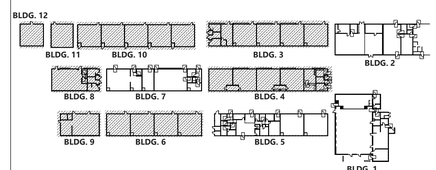
SCALE: NONE

TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO

SCALE: 1"=20'

0 20 40

KEY PLAN



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SAN JOSE, CA 95126
TEL (408) 715-4470

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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO

INC 2

DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

SHEET NO.
2T-010

DATE: SEPTEMBER 24, 2024

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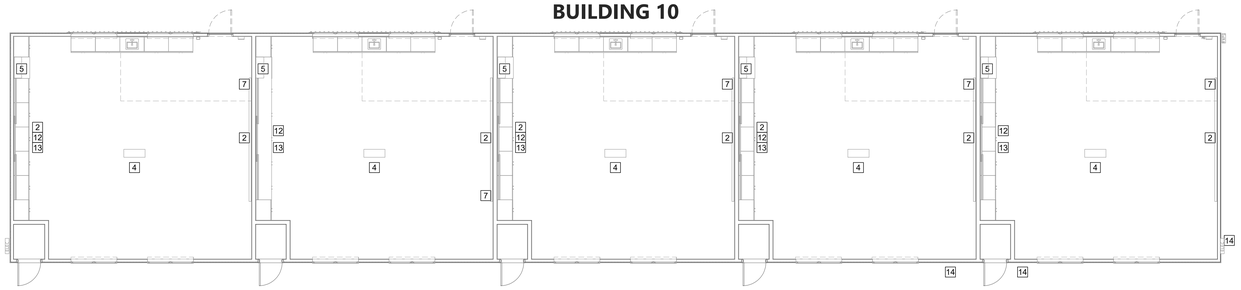
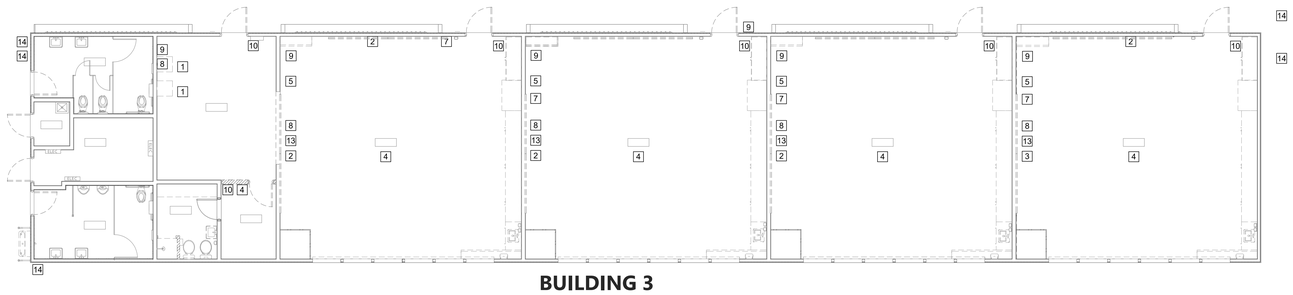


TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING 10

SCALE: 1/8"=1'

0 4 8 12 16



TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING 3

SCALE: 1/8"=1'

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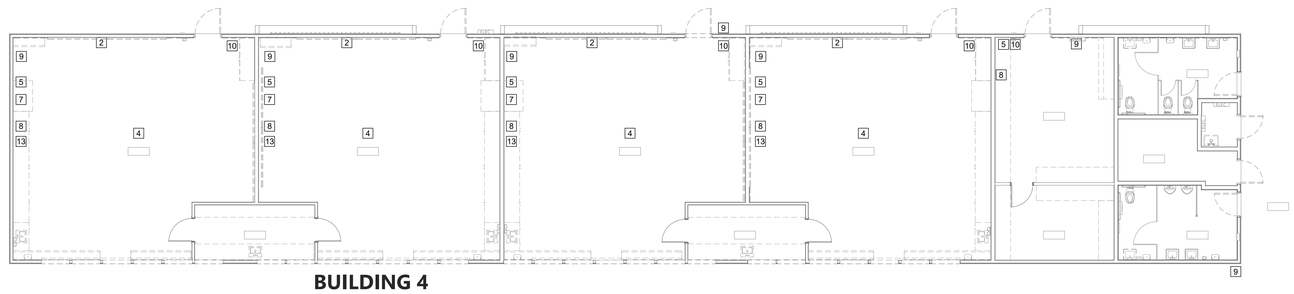


TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING 4

SCALE: 1/8"=1'

0 4 8 12 16

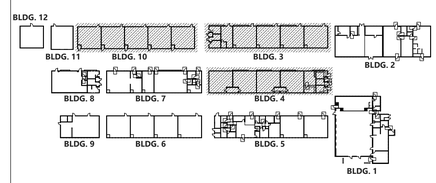
GENERAL NOTES:

1. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) DATA NETWORK COPPER AND FIBER CABLING, SERVING BUILDINGS IN THIS INCREMENT, INCLUDING WITHIN CONDUITS AND PULL BOXES. CARE SHALL BE TAKEN NOT TO DISTURB OR DAMAGE ACTIVE SYSTEMS. COORDINATE WITH DISTRICT REPRESENTATIVE PRIOR TO DEMO.
2. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) ANALOG TELEPHONE CABLING SERVING BUILDINGS IN THIS INCREMENT, INCLUDING WITHIN CONDUITS AND PULL BOXES. PROVIDE BLANK WALL PLATE AT ALL LOCATIONS, RETURN ANALOG PHONES TO DISTRICT.
3. CONTRACTOR TO REMOVE AND RETURN TO DISTRICT ALL (E) VIDEO PROJECTORS, A/V CABLING, CONTROL PANELS, INPUT STATIONS, AND LAPTOP DESKS. PATCH AND PREP FOR PAINT.
4. CONTRACTOR TO REMOVE AND DISPOSE OF ALL UNUSED OR ABANDONED SURFACE RACEWAY. PATCH AND PREP FOR PAINT.
5. CONTRACTOR TO RETURN REMOVED EQUIPMENT IN EXISTING WORKING ORDER. CARE SHALL BE TAKEN NOT TO DAMAGE REMOVED EQUIPMENT. EQUIPMENT SHALL BE LABELED WITH SITE NAME AND BOXED UP PRIOR TO RETURNING TO DISTRICT.
6. ALL EQUIPMENT SHALL BE RETURNED TO MDUSD. CONTACT DISTRICT REPRESENTATIVE COORDINATE RETURN PROCEDURE.
7. CONTRACTOR TO PROVIDE (N) BLANKING PLATES AND/OR (N) CHANNEL COVERS FOR (E) DATA LOCATIONS REMOVED FROM SURFACE RACEWAY AS A RESULT OF DEMO.
8. CONTRACTOR TO REMOVE AND RETURN TO DISTRICT ALL (E) WIRELESS APS AND MOUNTS. PATCH AND PREP FOR PAINT.
9. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) ANALOG INTERCOM AND CLOCK CABLING FROM ENDPOINT TO ENDPOINT, INCLUDING WITHIN CONDUITS AND PULL BOXES.
10. CONTRACTOR TO REMOVE AND RETURN TO DISTRICT ALL (E) ANALOG CLOCKS, SPEAKERS, AND SURFACE BACKBOXES. PATCH AND PREP FOR PAINT.
11. CONTRACTOR TO REMOVE AND DISPOSE OF ALL CABLE OPEN-RUN AND STAPLED TO BUILDING EXTERIOR. REMOVE CABLE FROM ENDPOINT TO ENDPOINT. PATCH PENETRATIONS AND PREP FOR PAINT. SEE PICTURE DETAIL.
12. CONTRACTOR TO REMOVE AND DISPOSE OF ALL ABANDONED OR INACTIVE INTRUSION SYSTEM COMPONENTS INCLUDING ABANDONED RACEWAY, CABINETS, AND WIRING.

SHEET NOTES:

1. DEMO (E) IDF CABINET, BACKBOARD, AND OTHER DATA EQUIP. ON WALL, AS OCCURS. DEMO ALL (E) DATA DROPS AND FIBER TERMINATING AT THIS IDF.
2. DEMO (E) VIDEO PROJECTOR, MOUNT, LOW VOLTAGE CABLING, INPUT PLATE, AND SCREEN, AS OCCURS. REMOVE SURFACE RACEWAY SERVING PROJECTOR LOCATION.
3. DEMO (E) LCD TV, INCLUDING MOUNT, WALL CONTROLLER, INPUT PLATE, AND LOW VOLTAGE CABLING.
4. DEMO (E) WIRELESS AP, MOUNT, CABLING, AND SURFACE RACEWAY.
5. DEMO (E) ANALOG TELEPHONE, WALL PLATE, AND WIRING TO SOURCE. PROVIDE (N) BLANK WALL PLATE.
6. DEMO (E) NETWORK SWITCH ON SHELF OR WALL BRACKET, AS OCCURS. DEMO ALL (E) DATA DROPS TERMINATING AT THIS NETWORK SWITCH.
7. DEMO (E) LAPTOP DESK WALL UNIT.
8. DEMO (E) CLOCK, BACKBOX, CONDUIT, AND CABLE TO HEADEND. PATCH AND PREP FOR PAINT.
9. DEMO (E) SPEAKER. DEMO INTERCOM CABLE TO HEADEND. REMOVE BACKBOX FROM WALL. PATCH AND PREP FOR PAINT.
10. DEMO (E) MOTION DETECTOR, BACKBOX, CONDUIT, AND CABLING TO SOURCE.
11. DEMO (E) DOOR CONTACT, JUNCTION BOX, CONDUIT, AND CABLING TO SOURCE.
12. DEMO (E) CLOCK/SPEAKER COMBO, BACKBOX, AND CABLE TO SOURCE. PATCH AND PREP FOR PAINT.
13. DEMO (E) ATOMIC BATTERY CLOCK. RETURN TO DISTRICT.
14. DEMO (E) CCTV CAMERA, MOUNT, CONDUIT OR RACEWAY, AND CABLING TO SOURCE.

KEY PLAN



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Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE FLOOR PLAN DEMO

INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

SHEET NO.

2T-020

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENT

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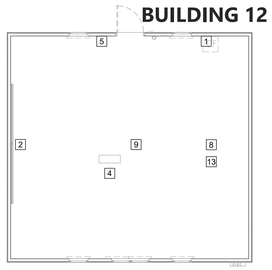
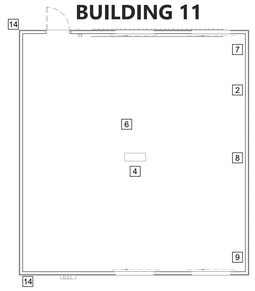
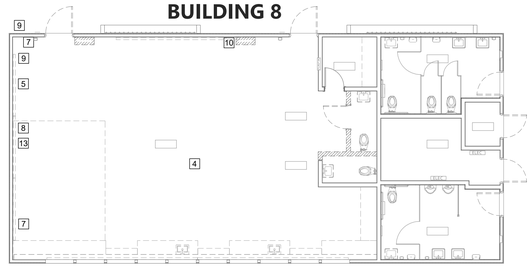




TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDINGS 11 AND 12

SCALE: 1/8"=1'

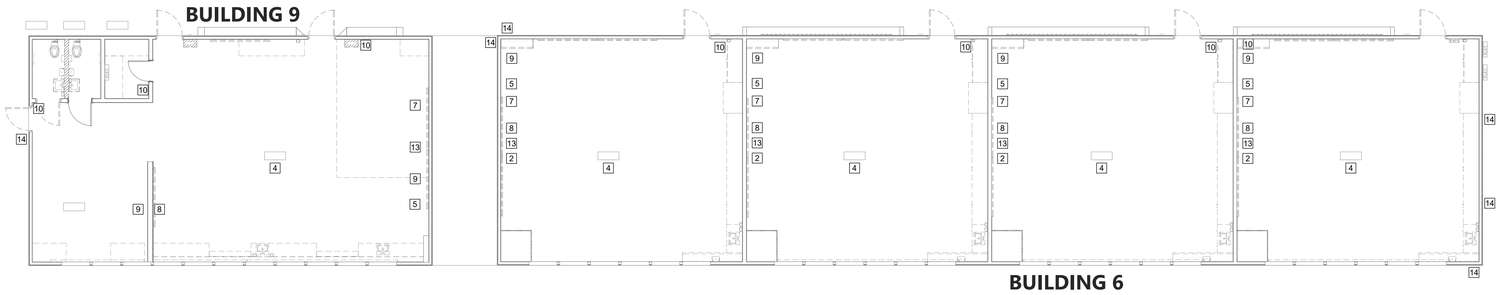
0 4 8 12 16



TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING 8

SCALE: 1/8"=1'

0 4 8 12 16



TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDINGS 6 AND 9

SCALE: 1/8"=1'

0 4 8 12 16

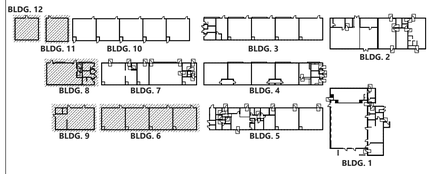
GENERAL NOTES:

1. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) DATA NETWORK COPPER AND FIBER CABLING, SERVING BUILDINGS IN THIS INCREMENT, INCLUDING WITHIN CONDUITS AND PULL BOXES. CARE SHALL BE TAKEN NOT TO DISTURB OR DAMAGE ACTIVE SYSTEMS. COORDINATE WITH DISTRICT REPRESENTATIVE PRIOR TO DEMO.
2. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) ANALOG TELEPHONE CABLING SERVING BUILDINGS IN THIS INCREMENT, INCLUDING WITHIN CONDUITS AND PULL BOXES. PROVIDE BLANK WALL PLATE AT ALL LOCATIONS, RETURN ANALOG PHONES TO DISTRICT.
3. CONTRACTOR TO REMOVE AND RETURN TO DISTRICT ALL (E) VIDEO PROJECTORS, A/V CABLING, CONTROL PANELS, INPUT STATIONS, AND LAPTOP DESKS. PATCH AND PREP FOR PAINT.
4. CONTRACTOR TO REMOVE AND DISPOSE OF ALL UNUSED OR ABANDONED SURFACE RACEWAY. PATCH AND PREP FOR PAINT.
5. CONTRACTOR TO RETURN REMOVED EQUIPMENT IN EXISTING WORKING ORDER. CARE SHALL BE TAKEN NOT TO DAMAGE REMOVED EQUIPMENT. EQUIPMENT SHALL BE LABELED WITH SITE NAME AND BOXED UP PRIOR TO RETURNING TO DISTRICT.
6. ALL EQUIPMENT SHALL BE RETURNED TO MDUSD. CONTACT DISTRICT REPRESENTATIVE COORDINATE RETURN PROCEDURE.
7. CONTRACTOR TO PROVIDE (N) BLANKING PLATES AND/OR (N) CHANNEL COVERS FOR (E) DATA LOCATIONS REMOVED FROM SURFACE RACEWAY AS A RESULT OF DEMO.
8. CONTRACTOR TO REMOVE AND RETURN TO DISTRICT ALL (E) WIRELESS APS AND MOUNTS. PATCH AND PREP FOR PAINT.
9. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) ANALOG INTERCOM AND CLOCK CABLING FROM ENDPOINT TO ENDPOINT, INCLUDING WITHIN CONDUITS AND PULL BOXES.
10. CONTRACTOR TO REMOVE AND RETURN TO DISTRICT ALL (E) ANALOG CLOCKS, SPEAKERS, AND SURFACE BACKBOXES. PATCH AND PREP FOR PAINT.
11. CONTRACTOR TO REMOVE AND DISPOSE OF ALL CABLE OPEN-RUN AND STAPLED TO BUILDING EXTERIOR. REMOVE CABLE FROM ENDPOINT TO ENDPOINT. PATCH PENETRATIONS AND PREP FOR PAINT. SEE PICTURE DETAIL.
12. CONTRACTOR TO REMOVE AND DISPOSE OF ALL ABANDONED OR INACTIVE INTRUSION SYSTEM COMPONENTS INCLUDING ABANDONED RACEWAY, CABINETS, AND WIRING.

SHEET NOTES:

1. DEMO (E) IDF CABINET, BACKBOARD, AND OTHER DATA EQUIP. ON WALL, AS OCCURS. DEMO ALL (E) DATA DROPS AND FIBER TERMINATING AT THIS IDF.
2. DEMO (E) VIDEO PROJECTOR, MOUNT, LOW VOLTAGE CABLING, INPUT PLATE, AND SCREEN, AS OCCURS. REMOVE SURFACE RACEWAY SERVING PROJECTOR LOCATION.
3. DEMO (E) LCD TV, INCLUDING MOUNT, WALL CONTROLLER, INPUT PLATE, AND LOW VOLTAGE CABLING.
4. DEMO (E) WIRELESS AP, MOUNT, CABLING, AND SURFACE RACEWAY.
5. DEMO (E) ANALOG TELEPHONE, WALL PLATE, AND WIRING TO SOURCE. PROVIDE (N) BLANK WALL PLATE.
6. DEMO (E) NETWORK SWITCH ON SHELF OR WALL BRACKET, AS OCCURS. DEMO ALL (E) DATA DROPS TERMINATING AT THIS NETWORK SWITCH.
7. DEMO (E) LAPTOP DESK WALL UNIT.
8. DEMO (E) CLOCK, BACKBOX, CONDUIT, AND CABLE TO HEADEND. PATCH AND PREP FOR PAINT.
9. DEMO (E) SPEAKER. DEMO INTERCOM CABLE TO HEADEND. REMOVE BACKBOX FROM WALL. PATCH AND PREP FOR PAINT.
10. DEMO (E) MOTION DETECTOR, BACKBOX, CONDUIT, AND CABLING TO SOURCE.
11. DEMO (E) DOOR CONTACT, JUNCTION BOX, CONDUIT, AND CABLING TO SOURCE.
12. DEMO (E) CLOCK/SPEAKER COMBO, BACKBOX, AND CABLE TO SOURCE. PATCH AND PREP FOR PAINT.
13. DEMO (E) ATOMIC BATTERY CLOCK. RETURN TO DISTRICT.
14. DEMO (E) CCTV CAMERA, MOUNT, CONDUIT OR RACEWAY, AND CABLING TO SOURCE.

KEY PLAN



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SAN JOSE, CA 95126
TEL (408) 715-4470

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YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

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Regis. No.163629

REVISIONS

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO

INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

SHEET NO.

2T-021

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENT

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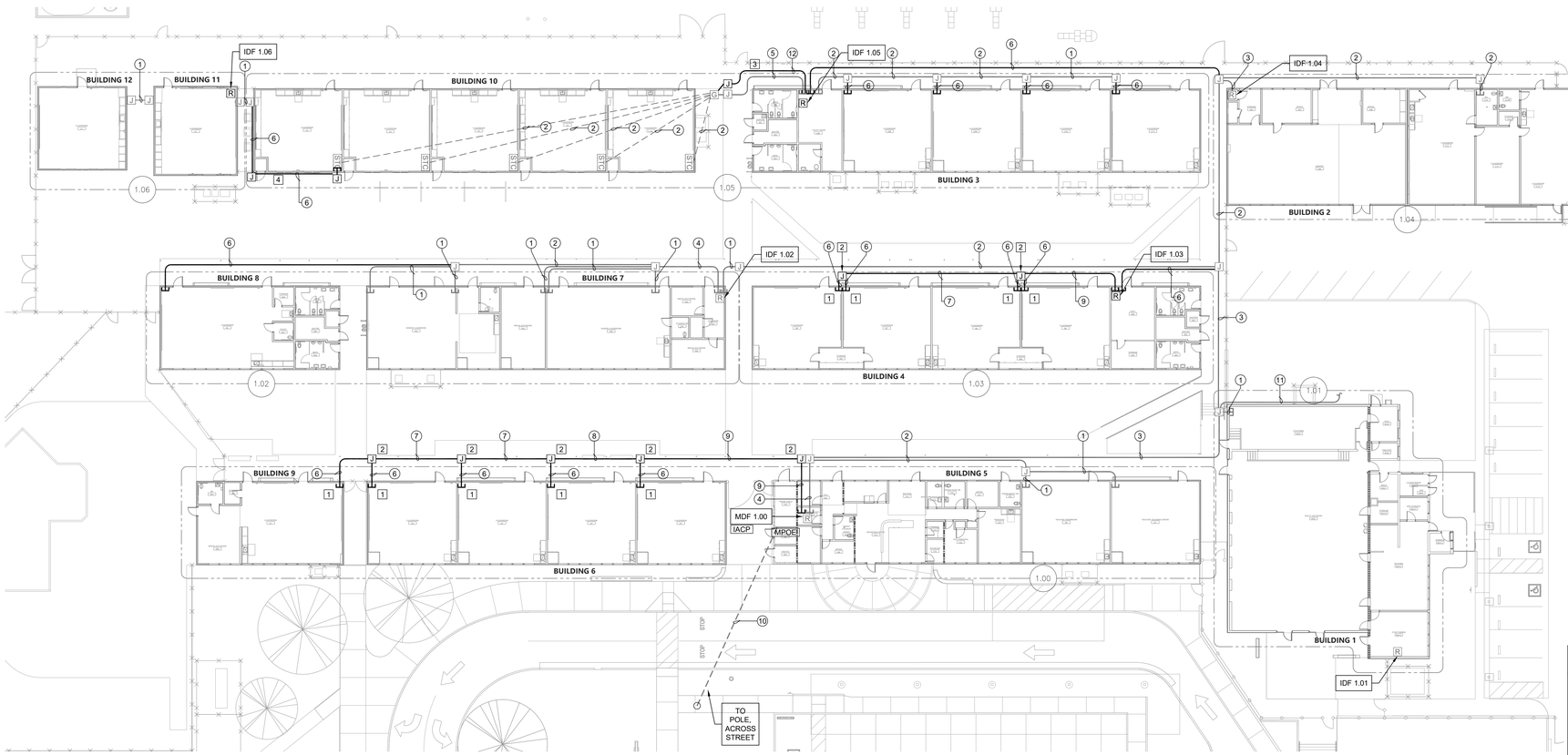


TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW

SCALE: 1"=20'

0 20 40

CONDUIT QTY. AND SIZE:

1. (E) 1 EA. 2" CONDUITS.
2. (E) 2 EA. 2" CONDUITS.
3. (E) 3 EA. 2" CONDUITS.
4. (E) 4 EA. 2" CONDUITS.
5. (E) 2 EA. 3" CONDUITS.
6. (N) 1 EA. 2" CONDUITS.
7. (N) 2 EA. 2" CONDUITS.
8. (N) 3 EA. 2" CONDUITS.
9. (N) 4 EA. 2" CONDUITS.
10. (E) 1 EA. 1-1/2" CONDUITS (AT&T) TO POLE.
11. (E) 1 EA. 1" CONDUITS.
12. (N) 1 EA. 4" CONDUITS.

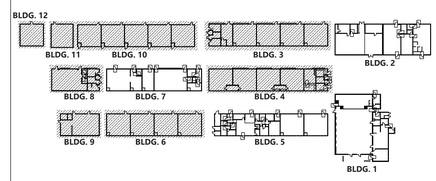
GENERAL NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL ALL PATHWAY, CABLING, ENCLOSURES, MOUNTS, TERMINATIONS, AND ACCESSORIES REQUIRED FOR COMPLETE AND FULLY OPERATIONAL TECHNOLOGY SYSTEMS.
2. CONTRACTOR TO INSTALL AND MAKE OPERATIONAL ALL OWNER-FURNISHED ACTIVE EQUIPMENT AS NOTED IN THE PLANS AND SPECIFICATIONS.
3. ALL ACTIVE EQUIPMENT FURNISHED BY THE OWNER WILL BE PROGRAMMED BY THE OWNER.
4. EXTERIOR BACKBONE CONDUIT WALL PENETRATIONS ARE EXISTING OR NEW AT 110', TYP. NO STRUCTURAL BEAMS SHALL BE ALTERED OR PENETRATED.

SHEET NOTES:

1. REUSE (E) J-BOX AND WALL PENETRATION. PROVIDE (N) 2" CONDUIT TO J-BOX.
2. PROVIDE 1 EA. (N) NEMA 4 J-BOX WITH CONTINUOUS HINGE LID AND CLAMP STYLE CLOSURE MOUNTED ON DURA-BLOCKS. SEE DETAIL 8/2T-801.
3. PROVIDE (N) CONDUIT PATHWAY AND J-BOXES BETWEEN IDF LOCATION AND (E) GROUND BOX, AS NOTED.
4. PROVIDE (N) CONDUIT PATHWAY AND J-BOXES BETWEEN ROOM C-3 STC AND (E) J-BOX TO ROOM C-2, AS NOTED.

KEY PLAN



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YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

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JEFFREY KOSTROM
Signature
EXPIRES: 12/31/24
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SHEET TITLE

TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW

INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

SHEET NO.

2T-100

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENT

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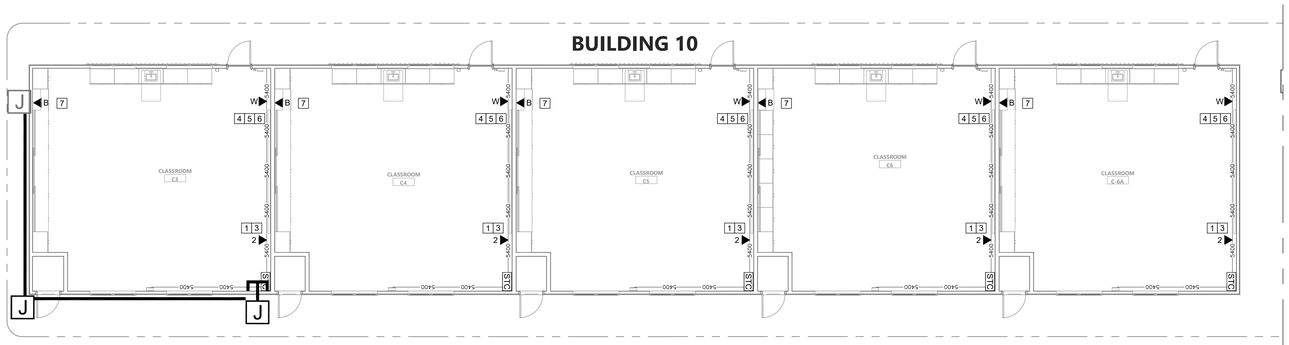
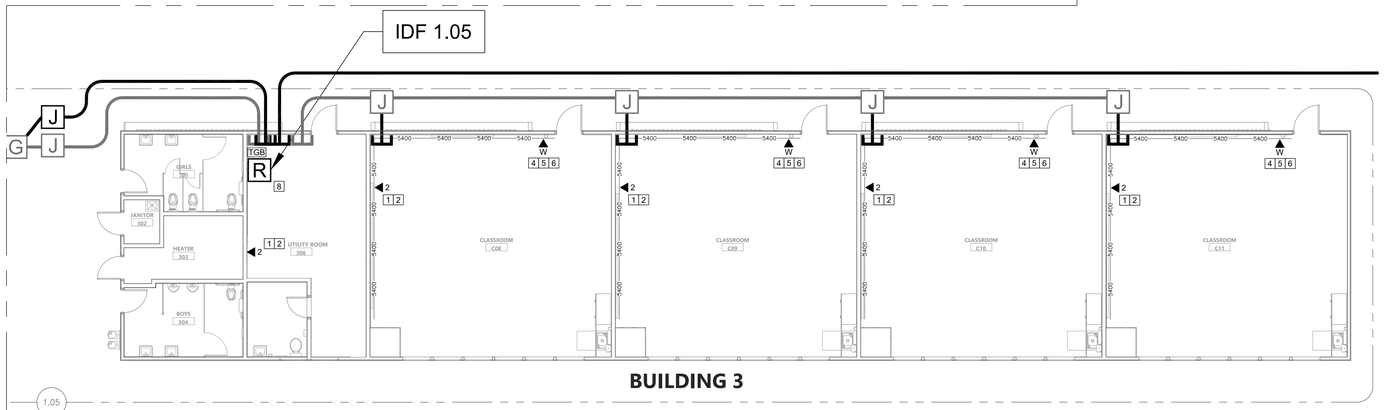


TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING 10

SCALE: 1/8"=1'

0 4 8 12 16



TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING 3

SCALE: 1/8"=1'

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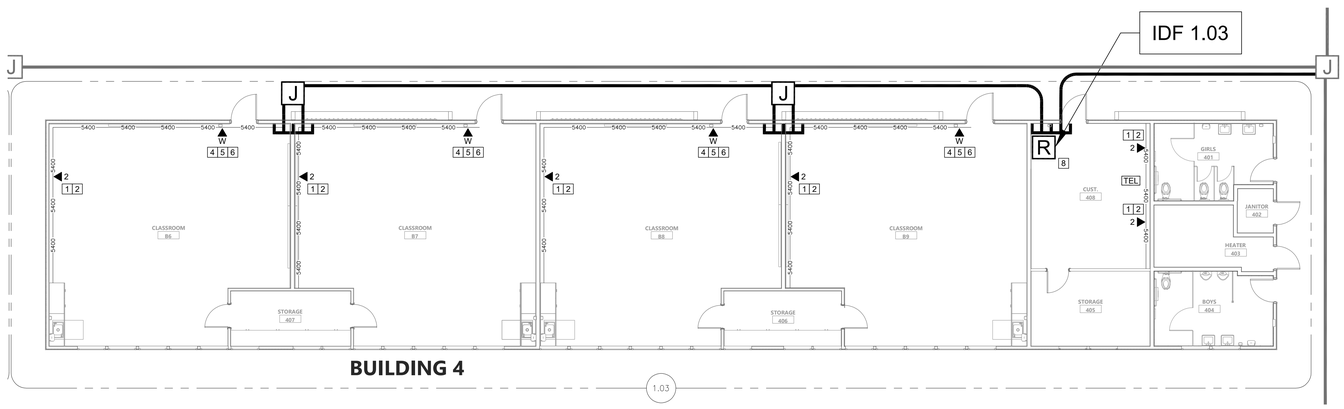

TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING 4

SCALE: 1/8"=1'

0 4 8 12 16

GENERAL NOTES:

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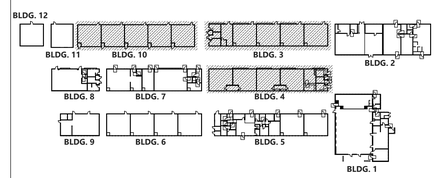
4. EXTERIOR BACKBONE CONDUIT WALL PENETRATIONS ARE EXISTING OR NEW AT 11' 0". TYP. NO STRUCTURAL BEAMS SHALL BE ALTERED OR PENETRATED.

SHEET NOTES:

1. PROVIDE (N) CAT6A DATA DROP, QUANTITY INDICATED.
2. ROUTE (N) CABLING VIA (N) SURFACE RACEWAY (BY ELEC.) TO EXTERIOR BACKBONE. PROVIDE (N) DATA PLATES AND DATA PLATE RACEWAY ADAPTERS.
3. ROUTE (N) CABLING VIA (E) SURFACE RACEWAY TO ROOM STC. PROVIDE (N) DATA PLATES AND DATA PLATE RACEWAY ADAPTERS.
4. PROVIDE (N) 1 EA. CAT6A DATA DROP FOR WALL MOUNTED VOIP PHONE WITH PHONE HANGER WALL PLATE.
5. PROVIDE (N) CUT IN BOX AT WALL PHONE LOCATION. FISH CABLE BETWEEN (N) CUT IN BOX AND WM5400.
6. MOUNT OWNER-PROVIDED VOIP PHONE HANDSET ON WALL HANGER PLATE. UTILIZE MFG. PROVIDED WALL MOUNT HARDWARE AND PATCH CABLE.
7. PROVIDE (N) BLANK COVER AT (E) DATA WALL LOCATION.
8. PROVIDE (N) IDF ENCLOSURE. SEE SINGLE LINE FOR DETAILS.
9. ROUTE (N) CABLING VIA (E) CONDUIT STUB TO ACCESSIBLE CEILING.

KEY PLAN



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DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

SHEET NO.

2T-200

DATE: SEPTEMBER 24, 2024

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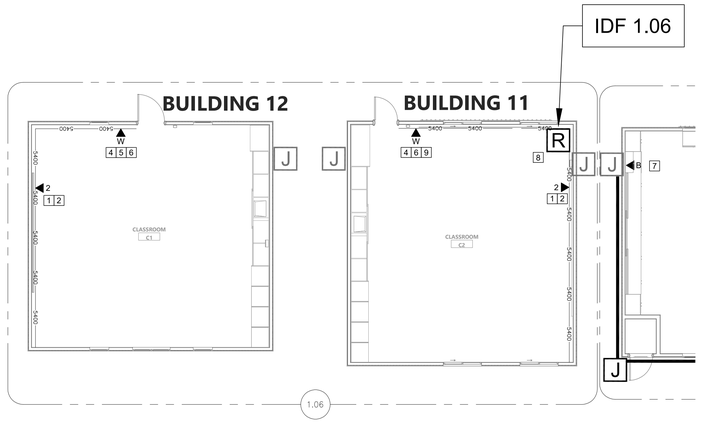
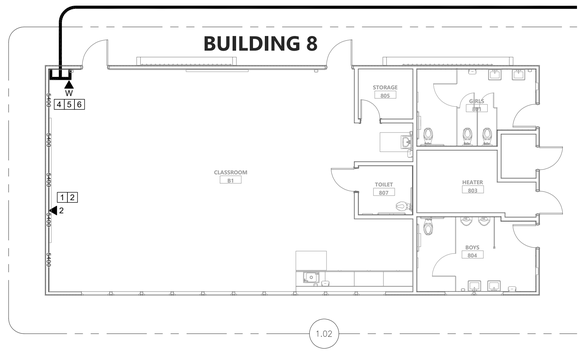


TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDINGS 11 AND 12

SCALE: 1/8"=1'

0 4 8 12 16



TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING 8

SCALE: 1/8"=1'

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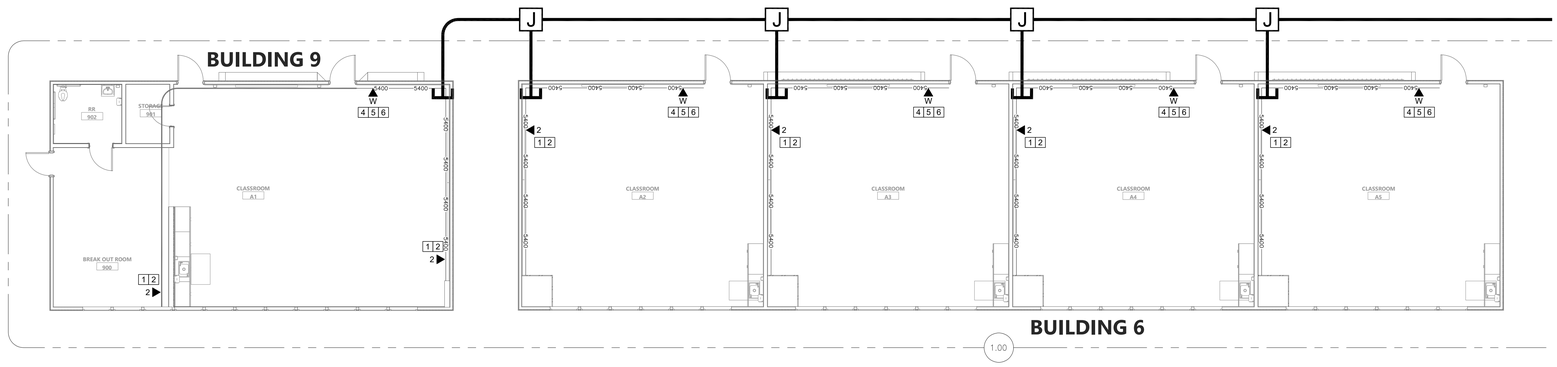

TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDINGS 6 AND 9

SCALE: 1/8"=1'

0 4 8 12 16

GENERAL NOTES:

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SHEET NOTES:

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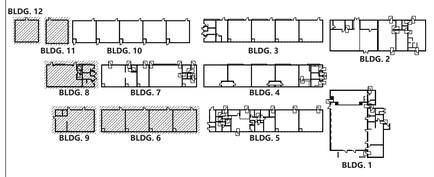

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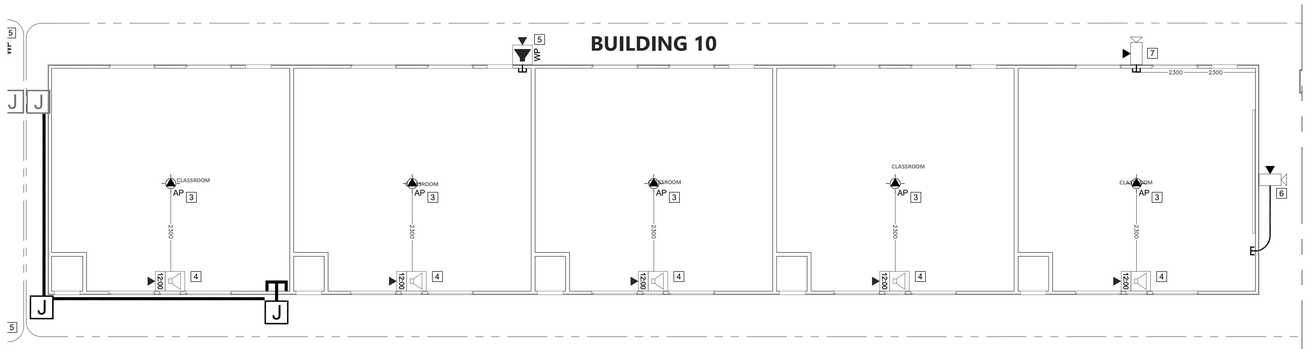
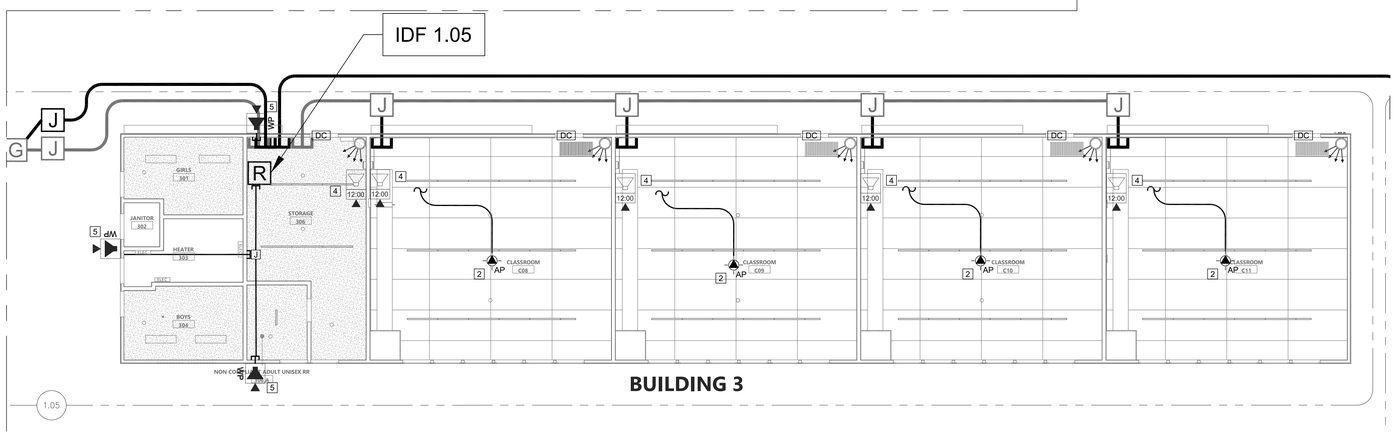


TECHNOLOGY INFRA. RCP NEW - BUILDING 10

SCALE: 1/8"=1'

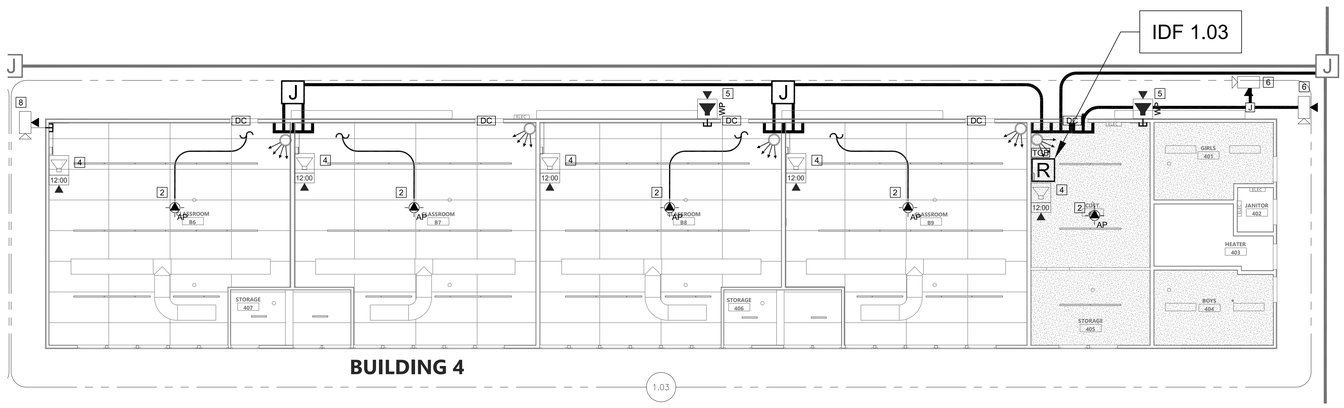
0 4 8 12 16



TECHNOLOGY INFRA. RCP NEW - BUILDING 3

SCALE: 1/8"=1'

0 4 8 12 16



TECHNOLOGY INFRA. RCP NEW - BUILDING 4

SCALE: 1/8"=1'

0 4 8 12 16

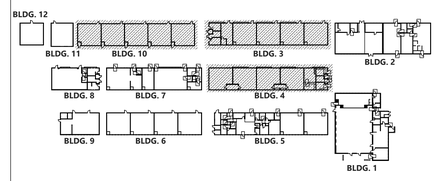
GENERAL NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL ALL PATHWAY, CABLING, ENCLOSURES, MOUNTS, TERMINATIONS, AND ACCESSORIES REQUIRED FOR COMPLETE AND FULLY OPERATIONAL TECHNOLOGY SYSTEMS.
2. CONTRACTOR TO INSTALL AND MAKE OPERATIONAL ALL OWNER-FURNISHED ACTIVE EQUIPMENT AS NOTED IN THE PLANS AND SPECIFICATIONS.
3. ALL ACTIVE EQUIPMENT FURNISHED BY THE OWNER WILL BE PROGRAMMED BY THE OWNER.
4. EXTERIOR BACKBONE CONDUIT WALL PENETRATIONS ARE EXISTING OR NEW AT 11' 0". TYP. NO STRUCTURAL BEAMS SHALL BE ALTERED OR PENETRATED.

SHEET NOTES:

1. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT ACCESSIBLE CEILING. PROVIDE (N) MOUNT. INSTALL OWNER-PROVIDED AP. SEE DETAIL.
2. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT HARD LID CEILING. PROVIDE (N) EMT CONDUIT FROM NEAREST DATA J-BOX. PROVIDE (N) MOUNT. INSTALL OWNER-PROVIDED AP. SEE DETAIL.
3. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT HARD LID CEILING. PROVIDE (N) WM2300 FROM CLOCK LOCATION. PROVIDE (N) MOUNT. INSTALL OWNER-PROVIDED AP. SEE DETAIL.
4. PROVIDE (N) 1 EA. CAT6A DATA DROP FOR IP CLOCK/SPEAKER COMBO. PROVIDE (N) COMBO SURFACE BACKBOX. TERMINATE DATA DROP IN BISCUIT BLOCK MOUNTED IN SURFACE BACKBOX. MOUNT OWNER-PROVIDED CLOCK/SPEAKER COMBO UNIT. PROVIDE (N) 1 EA. CAT6A PATCH CABLE.
5. PROVIDE (N) 1 EA. CAT6A DATA DROP FOR IP EXTERIOR SPEAKER. PROVIDE (N) EXTERIOR SURFACE BACKBOX AND MAKE WATERPROOF. TERMINATE DATA DROP IN BISCUIT BLOCK MOUNTED IN SURFACE BACKBOX. MOUNT OWNER-PROVIDED EXTERIOR SPEAKER UNIT. PROVIDE (N) 1 EA. CAT6A PATCH CABLE.
6. REMOVE (E) CAMERA PRIOR TO EXTERIOR PAINTING. PROVIDE (N) CAT6A DATA DROP VIA (N) PATHWAY. RE-MOUNT CAMERA AND MAKE WATERPROOF. RE-AIM CAMERA IN PRESENCE OF DISTRICT REPRESENTATIVE.
7. PROVIDE (N) CAT6A DATA DROP AND (N) WALL MOUNT FOR OWNER-PROVIDED PANORAMIC NETWORK CAMERA. CONTRACTOR TO CONFIRM WITH DISTRICT REPRESENTATIVE THAT CAMERA VIEWS ARE NOT OBSTRUCTED PRIOR TO INSTALLATION.
8. PROVIDE (N) CAT6A DATA DROP AND (N) CANOPY FLUSH MOUNT BACKBOX FOR OWNER-PROVIDED MULTIDIRECTIONAL NETWORK CAMERA. CONTRACTOR TO VERIFY MOUNTING LOCATION WITH DISTRICT PRIOR TO INSTALLATION. CONTRACTOR TO CONFIRM WITH DISTRICT REPRESENTATIVE THAT CAMERA VIEWS ARE NOT OBSTRUCTED PRIOR TO INSTALLATION.
9. PROVIDE (N) CAT6A DATA DROP AND (N) CORNER MOUNT FOR OWNER-PROVIDED MULTIDIRECTIONAL NETWORK CAMERA. CONTRACTOR TO CONFIRM WITH DISTRICT REPRESENTATIVE THAT CAMERA VIEWS ARE NOT OBSTRUCTED PRIOR TO INSTALLATION.
10. PROVIDE (N) CAT6A DATA DROP AND (N) CORNER MOUNT FOR OWNER-PROVIDED DOME NETWORK CAMERA. CONTRACTOR TO CONFIRM WITH DISTRICT REPRESENTATIVE THAT CAMERA VIEWS ARE NOT OBSTRUCTED PRIOR TO INSTALLATION.
11. PROVIDE (N) CAT6A DATA DROP AND (N) CEILING MOUNT UNDER CORNER OF EVE FOR OWNER-PROVIDED MULTIDIRECTIONAL NETWORK CAMERA. CONTRACTOR TO CONFIRM WITH DISTRICT REPRESENTATIVE THAT CAMERA VIEWS ARE NOT OBSTRUCTED PRIOR TO INSTALLATION.
12. PROVIDE (N) CUT IN BACKBOX BEHIND DEVICE LOCATION AND FISH CABLE TO ACCESSIBLE CEILING.
13. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR EXTERIOR WIRELESS AP. PROVIDE (N) MOUNT. INSTALL OWNER-PROVIDED AP. SEE DETAIL.
14. INSTALL ON PARAPET WALL ABOVE CANOPY.

KEY PLAN



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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

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REVISIONS

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW

INC 2

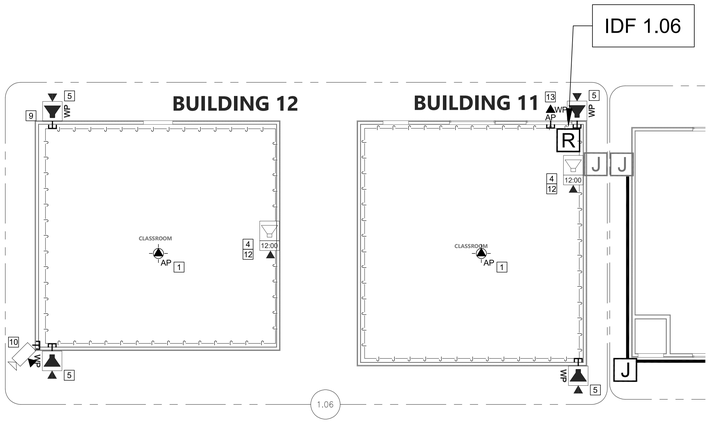
DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

SHEET NO.
2T-300

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENT

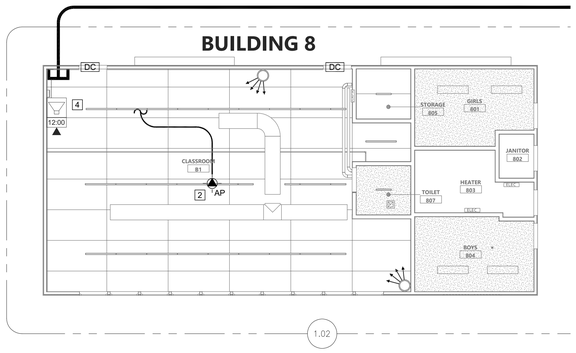
DATE PLOTTED: 9/24/2024 8:49:58 AM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



TECHNOLOGY INFRA. RCP NEW - BUILDINGS 11 AND 12

SCALE: 1/8"=1'

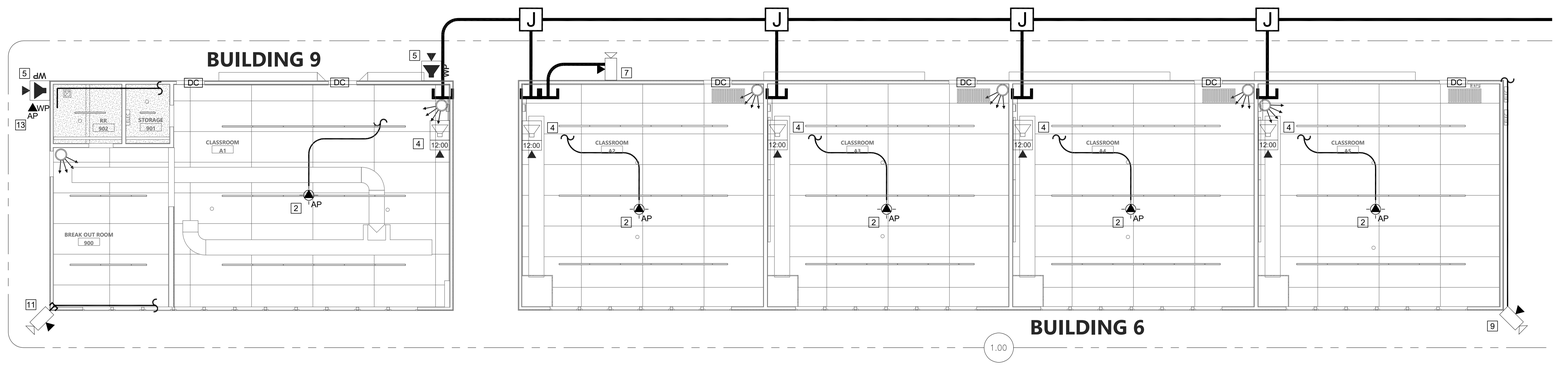
0 4 8 12 16



TECHNOLOGY INFRA. RCP NEW - BUILDING 8

SCALE: 1/8"=1'

0 4 8 12 16



TECHNOLOGY INFRA. RCP NEW - BUILDINGS 6 AND 9

SCALE: 1/8"=1'

0 4 8 12 16

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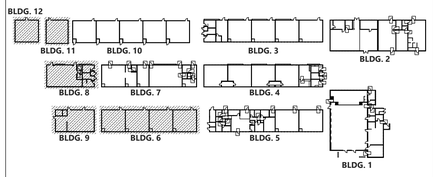

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991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

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YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

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Regis. No.103629

REVISIONS

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW

INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

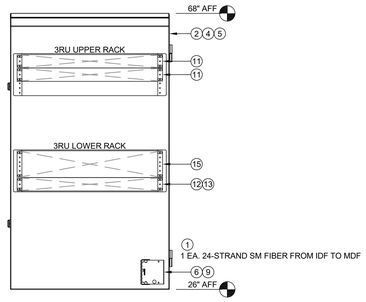
SHEET NO.

2T-301

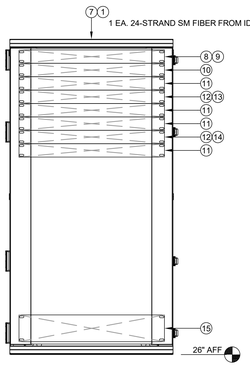
DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENT

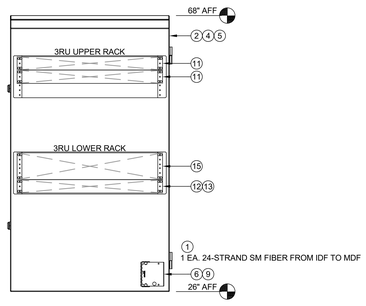
DATE PLOTTED: 9/24/2024 8:49:58 AM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt



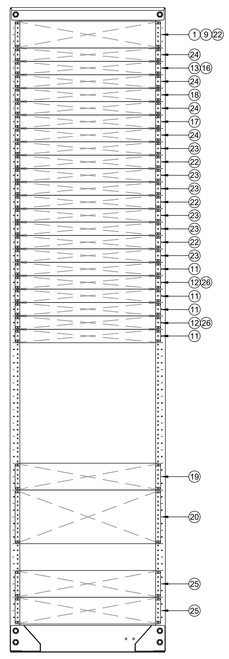
5 (N) IDF 1.06 - BUILDING 11 CLASSROOM C2
SCALE: NONE



3 (N) IDF 1.05 - BUILDING 3 STORAGE 306
SCALE: NONE



2 (N) IDF 1.03 - BUILDING 4 ROOM B10
SCALE: NONE



1 (E) MDF 1.00 - BUILDING 5 ROOM 510

ALL IDF GENERAL NOTES:

1. PROVIDE 1 EA. (N) 208V/20A (L6-20R) DEDICATED CIRCUIT IN QUAD BOX ON REAR PAN OF RACK. (BY ELEC.)
2. SET RACK RAIL DEPTH SO THAT THE FRONT DOOR WILL BE ABLE TO CLOSE AND LATCH AFTER EQUIPMENT AND PATCH CABLES ARE INSTALLED.
3. PROVIDE ALL (N) EQUIPMENT CALLED FOR IN THE ELEVATION.
4. INSTALL ALL OWNER-FURNISHED EQUIPMENT CALLED FOR IN THE ELEVATION.
5. ROUTE POWER FOR ALL EQUIPMENT SO THAT IT IS PROTECTED BY THE UNINTERRUPTIBLE POWER SUPPLY.
6. REMOVE ALL (E) EQUIPMENT NOT NOTED FOR REUSE AND DELIVER TO DISTRICT WAREHOUSE IN GOOD CONDITION.
7. PROVIDE (N) 6" SLIMLINE CAT6A PATCH CABLES FOR ALL (N) DATA DROPS.
8. PROVIDE (N) LC/LC FIBER PATCH CABLES AS REQUIRED.

MDF GENERAL NOTES:

1. ANY DOWNTIME OR CUTOVERS MUST BE SCHEDULED IN ADVANCE AND APPROVED BY THE DISTRICT REPRESENTATIVE. CAREFUL COORDINATION WILL BE REQUIRED TO MINIMIZE DOWNTIME AND SO THAT NORMAL CAMPUS OPERATONS WILL NOT BE AFFECTED.
2. PROVIDE ALL (N) EQUIPMENT CALLED FOR IN THE ELEVATION.
3. INSTALL ALL OWNER-FURNISHED EQUIPMENT CALLED FOR IN THE ELEVATION.
4. ROUTE POWER FOR ALL EQUIPMENT SO THAT IS EVENLY DISTRIBUTED BETWEEN AND FULLY PROTECTED BY THE UNINTERRUPTIBLE POWER SUPPLIES.
5. REMOVE ALL (E) EQUIPMENT NOT NOTED FOR REUSE AND DELIVER TO DISTRICT WAREHOUSE IN GOOD CONDITION.
6. PROVIDE (N) 6" SLIMLINE CAT6A PATCH CABLES FOR ALL (N) DATA DROPS.
7. PROVIDE (N) LC/LC FIBER PATCH CABLES AS REQUIRED.

EQUIPMENT SCHEDULE:

ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)

SYMBOL	DESCRIPTION	MFG/MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
1	24-STRAND SINGLE MODE FIBER, ARMORED	PANDUIT	FSLP924	N/A
2	TELECOMMUNICATIONS RACK, WALL VERTICAL 3U/3U	PANDUIT	WME3BL	N/A
3	NOT USED	N/A	N/A	N/A
4	FAN KIT FOR WALL VERTICAL RACK	PANDUIT	PZAEFAN	N/A
5	GROUND KIT FOR WALL VERTICAL RACK	PANDUIT	WMEGK	N/A
6	FIBER ENCLOSURE BRACKET FOR VERTICAL RACK	PANDUIT	FWME1BL	N/A
7	TELECOMMUNICATIONS RACK, WALL, 26U	PANDUIT	PZWMC2630P	N/A
	FAN KIT FOR WALL RACK		PZCFK	N/A
	GROUND KIT FOR WALL RACK		PZWMCGK	N/A
8	FIBER TRAY LIU, 1U	PANDUIT	FRME1U	N/A
	FIBER SPLICE MODULE		FOSMF	N/A
9	FIBER ADAPTER PANEL 12 PAIR	PANDUIT	FAP12WBUDLCZ	N/A
10	1U HORIZONTAL CABLE MANAGER	PANDUIT	NCMHF1	N/A
11	1U 24 PORT PATCH PANEL	PANDUIT	CPPL24M6BLY	N/A
	STRAIN RELIEF BAR FOR PATCH PANEL		SRB19BLY	N/A
12	48 PORT SWITCH	ARUBA	R8S90A	OFCI
	POWER SUPPLY		JL670A	OFCI
13	SFP+ MODULE	ARUBA	J9151E	OFCI
14	STACK CABLE	ARUBA	R0M46A	OFCI
15	UNINTERRUPTIBLE POWER SUPPLY	N1C	N1C.L3000G	OFCI
16	CORE SWITCH	ARUBA	EXISTING	N/A
17	AP CONTROLLER	ARUBA	EXISTING	N/A
18	SERVICE PROVIDER EQUIPMENT	CIENA	EXISTING	N/A
19	2U NVR SERVER	EXISTING	EXISTING	N/A
20	4U NVR SERVER	EXISTING	EXISTING	N/A
21	1U RACK MOUNT MONITOR	EXISTING	EXISTING	N/A
22	2U LIU	EXISTING	EXISTING	N/A
23	1U 24 PORT PATCH PANEL	EXISTING	EXISTING	N/A
24	1U HORIZONTAL CABLE MANAGER	EXISTING	EXISTING	N/A
25	UNINTERRUPTIBLE POWER SUPPLY	EXISTING	EXISTING	N/A
26	DAC CABLE	ARUBA	J9281D	OFCI

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SAN JOSE, CA 95126
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SHEET TITLE

TECHNOLOGY INFRASTRUCTURE SINGLE LINES

INC 2

DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

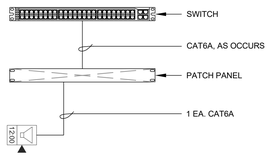
SHEET NO.

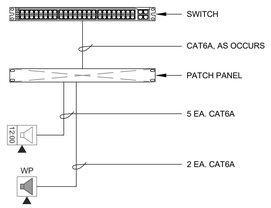
2T-700

DATE: SEPTEMBER 24, 2024

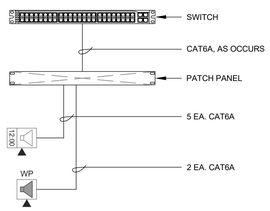
CONSTRUCTION DOCUMENT

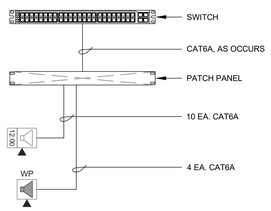
DATE PLOTTED: 9/24/2024 8:49:58 AM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

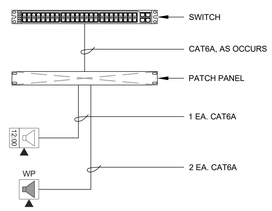


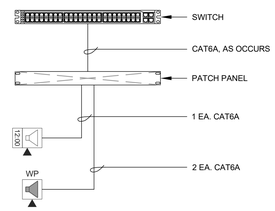


EQUIPMENT INTERCOM SCHEDULE: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
SYMBOL	DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
IDF	IP CLOCK/SPEAKER COMBO	ATLAS	IP-SDMF	OFCI (8 / 2T-809)
	SURFACE BACKBOX		IP-SEST-SD	N/A
WP	IP SPEAKER (EXTERIOR)	ATLAS	IP-HVP	OFCI (4 / 2T-809)
	SURFACE BACKBOX		IP-SEST-HVP	N/A

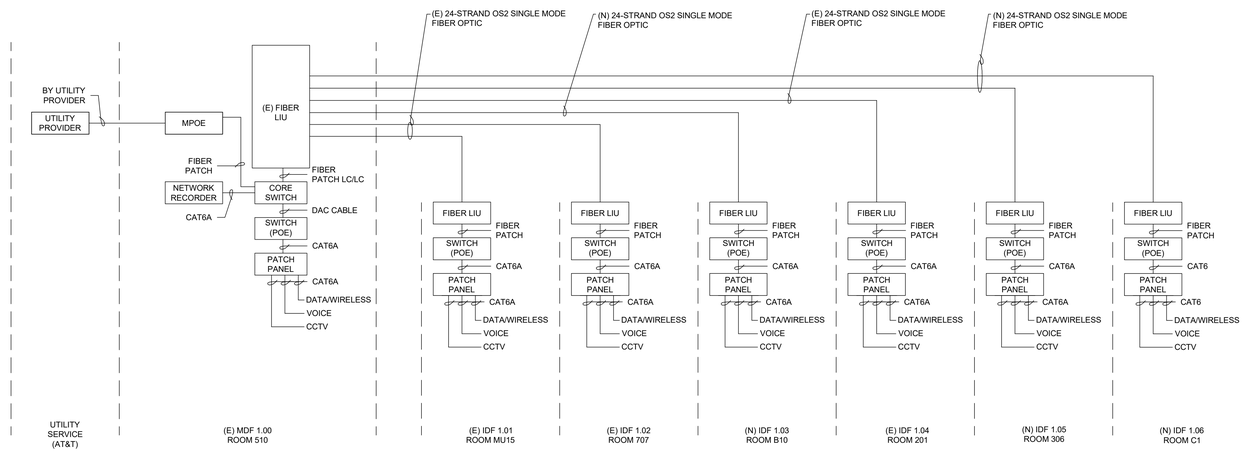








2 INTERCOM NETWORK SINGLE LINE DIAGRAM
SCALE: NONE



1 DATA/VOICE/CCTV NETWORK SINGLE LINE DIAGRAM
SCALE: NONE

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SAN JOSE, CA 95126
TEL (408) 715-4470

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Office: (916) 359-4000
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(530) 885 0040

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE SINGLE LINES

INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

SHEET NO.

2T-701

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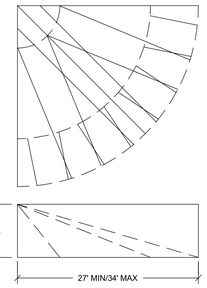
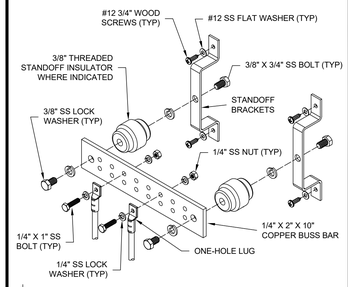


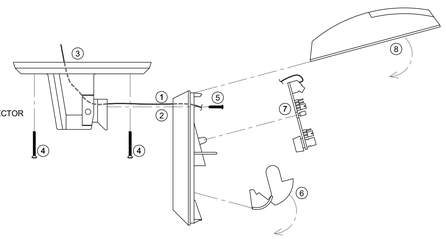
14 INTRUSION DETECTOR COVERAGE DETAIL
SCALE: NONE



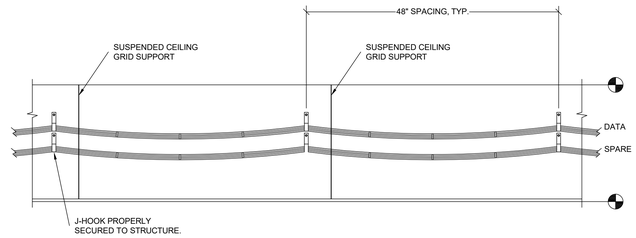
11 MAIN GROUND BAR DETAIL
SCALE: NONE

1. REMOVE KNOCKOUT FROM MOUNTING PLATE
2. DRILL 2 EA. 1/8" HOLES THROUGH MOUNTING PLATE. CENTER OVER MOUNTING HOLES ON ADJUSTABLE FACEPLATE
3. INSERT WIRE THOUGH ADJUSTABLE FACEPLATE AND KNOCKOUT, ATTACH TO CIRCUIT BOARD
4. ATTACH ADJUSTABLE FACEPLATE TO BACKBOX WITH FACTORY SCREWS
5. ATTACH MOUNTING BRACKET TO ADJUSTABLE FACEPLATE WITH 2 EA. 1/8" SCREWS
6. INSERT PLASTIC REFLECTOR
7. INSERT CIRCUIT BOARD, ADJUST PLASTIC REFLECTOR
8. ATTACH COVER TO MOUNTING BRACKET AND SNAP INTO PLACE

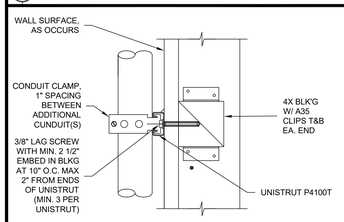
NOTE: ASSEMBLY WEIGHT LESS THAN 5LBS



7 INTRUSION DETECTION SENSOR INSTALLATION ADJUSTABLE CEILING MOUNTING DETAIL
SCALE: NONE

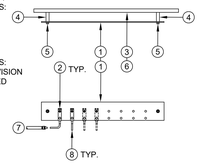


3 J-HOOK PATHWAY ABOVE CEILING DETAIL
SCALE: NONE

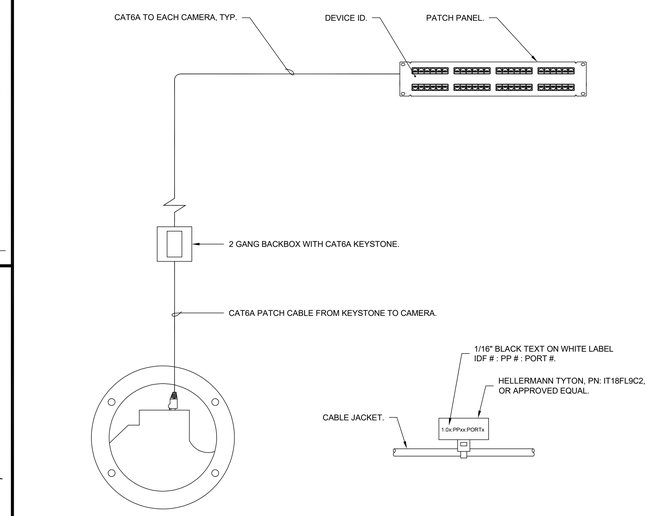


13 CONDUIT SUPPORT DETAIL - VERTICAL
SCALE: NONE

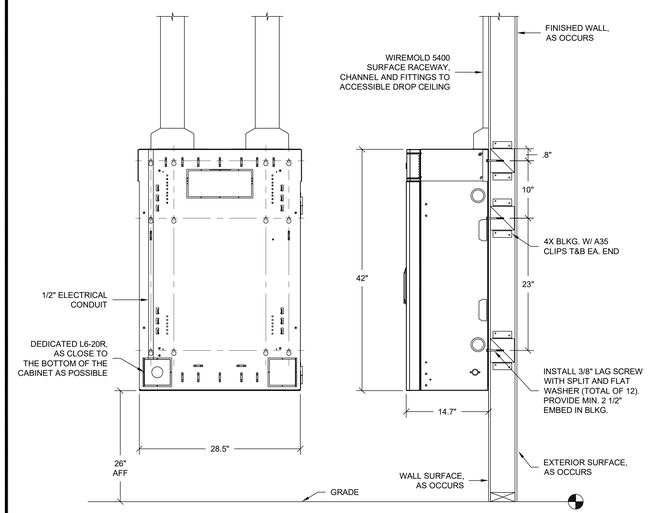
1. BARE COPPER GROUND BUS BAR
2. TYPICAL 2 HOLE LUGS, SECURE TO BAR WITH 2-5/6" BOLTS WITH NAMEPLATES MOUNTED ABOVE. PROVIDE NUMBER OF LUGS AS REQUIRED
3. 1" FIRE RATED PLYWOOD BACKBOARD
4. PROVIDE ISOLATION SUPPORT SPACERS AS REQUIRED
5. 3/8" WOOD LAG SCREW, 1" MIN. EMBED
6. MOUNTING LOCATION PER PLAN
7. MAIN BONDING CONDUCTOR FOR TELECOMMUNICATIONS: #4 AWG TO GROUNDING ELECTRODE SYSTEM (PER ELECTRICAL)
8. BONDING CONDUCTOR(S) FOR TELECOMMUNICATIONS: #6 AWG TO DIVISION 27, DIVISION 28 EQUIPMENT AS REQUIRED



10 GROUND BUS BAR DETAIL
SCALE: NONE



6 CCTV NETWORK SEGMENT DETAIL
SCALE: NONE



NOTES:
1. 3RU TOTAL LOAD CAPACITY = 200 LBS.

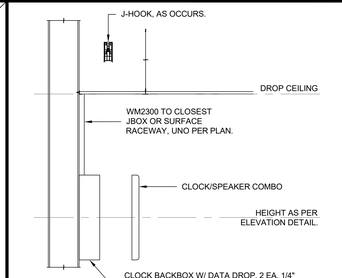
2 TELECOMMUNICATIONS WALL CABINET, 3RU
SCALE: NONE

1. DRAFT STOP OR FIRE CAULK ACCORDING TO WALL PENETRATION DETAILS
2. ALL THREAD CONDUIT
3. SCREW ON BUSHING
4. WALL
5. REDUCING WASHER OR PLATE
6. SCREW ON LOCKING RINGS FRONT & BACK (TYP.)

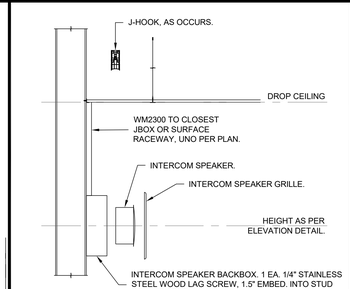
12 CONDUIT SLEEVE PENETRATION DETAIL
SCALE: NONE

9 CONDUIT ON ROOF DETAIL
SCALE: NONE

NOT USED

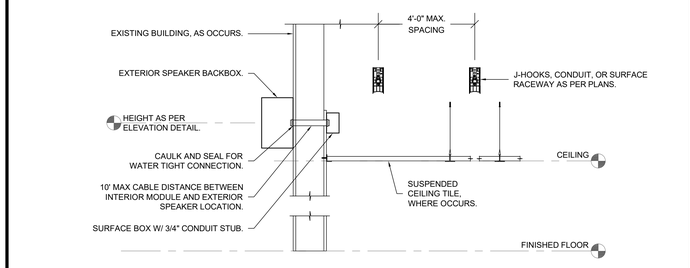


8 SURFACE MOUNTED CLOCK/SPEAKER COMBO DETAIL
SCALE: NONE

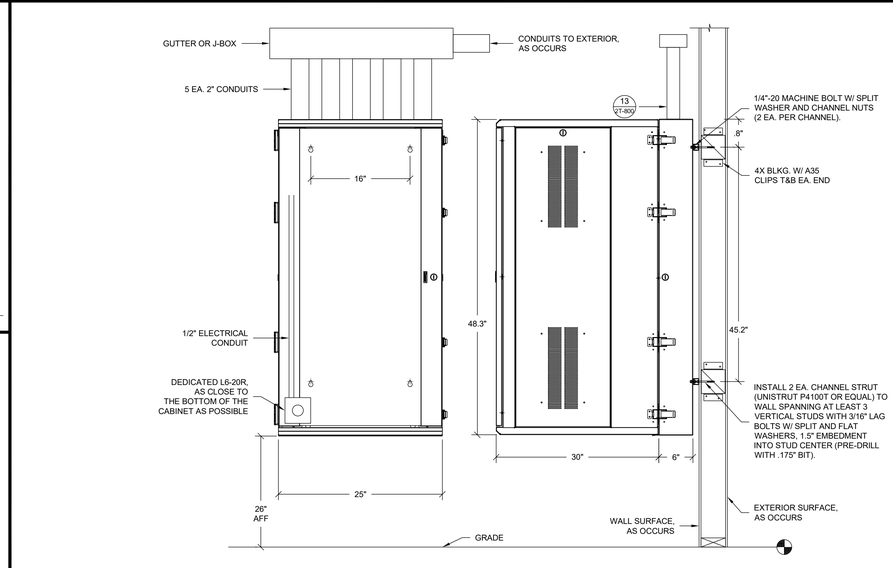


5 SURFACE MOUNTED INTERIOR INTERCOM SPEAKER DETAIL
SCALE: NONE

NOT USED



4 EXTERIOR INTERCOM SPEAKER MOUNTING DETAIL
SCALE: NONE



NOTES:
1. TOTAL LOAD CAPACITY = 350.09 LBS.

1 TELECOMMUNICATIONS WALL CABINET, 26RU
SCALE: NONE

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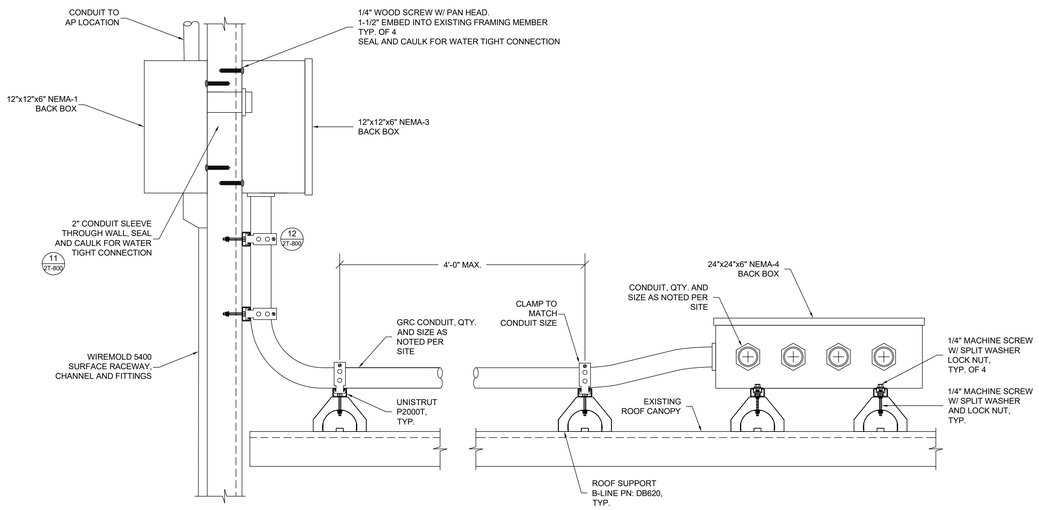
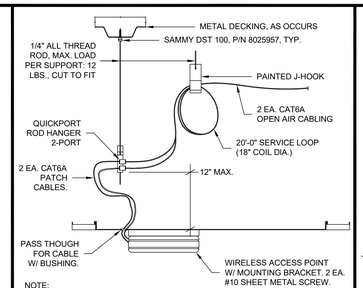
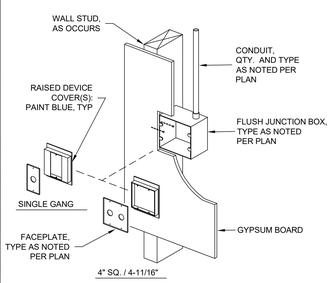


8 EXTERIOR CANOPY CONDUIT AND BACK BOX MOUNTING DETAIL

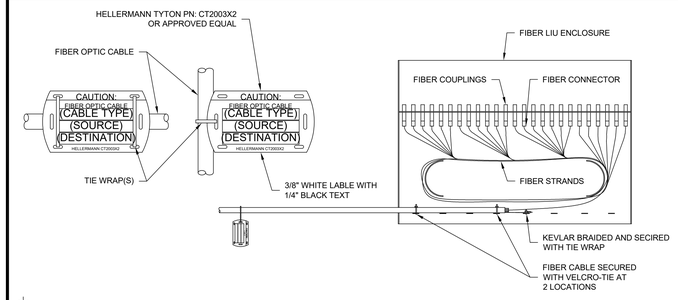


NOTE:
1) TOTAL ASSEMBLY WEIGHT UNDER 20 LBS.

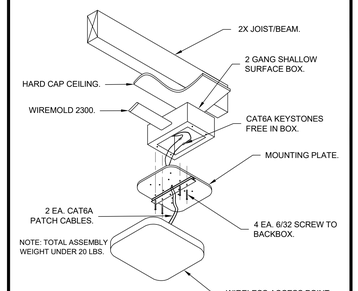
5 WIRELESS ACCESS POINT ON METAL T-BAR CEILING MOUNTING DETAIL
SCALE: NONE



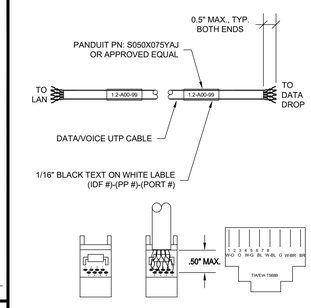
4 JUNCTION BOX, WALL MOUNT DETAIL
SCALE: NONE



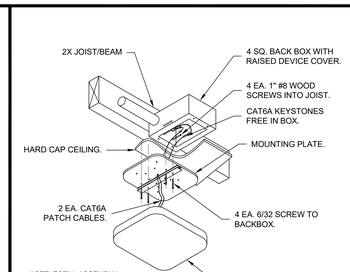
3 FIBER LIU DETAIL W/ FIBER OPTIC CABLE LABELING (ABV./BELOW GROUND)
SCALE: NONE



9 WAP MOUNTING AT HARD CAP CEILING DETAIL - SURFACE RACEWAY
SCALE: NONE

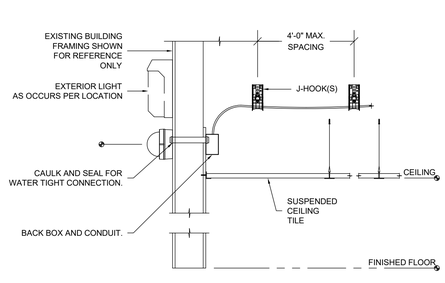


DATA CABLE LABELING DETAIL - AT PATCH PANEL / END POINT

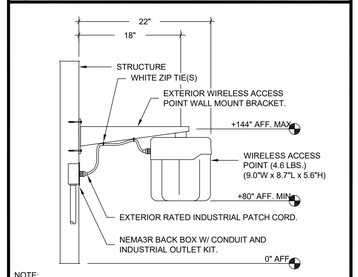


DATA/ VOICE BACKBOX AND FACE PLATE DETAIL

6 WAP MOUNTING AT HARD CAP CEILING DETAIL - CONDUIT
SCALE: NONE

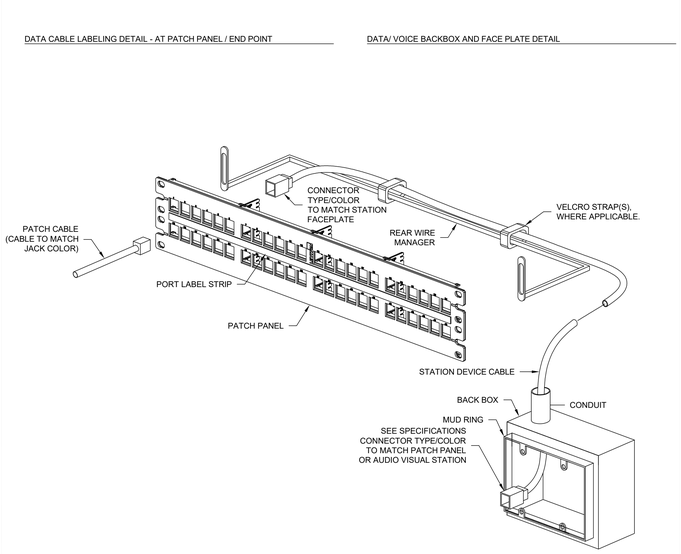


2 CCTV EXTERIOR WALL MOUNTING DETAIL
SCALE: NONE

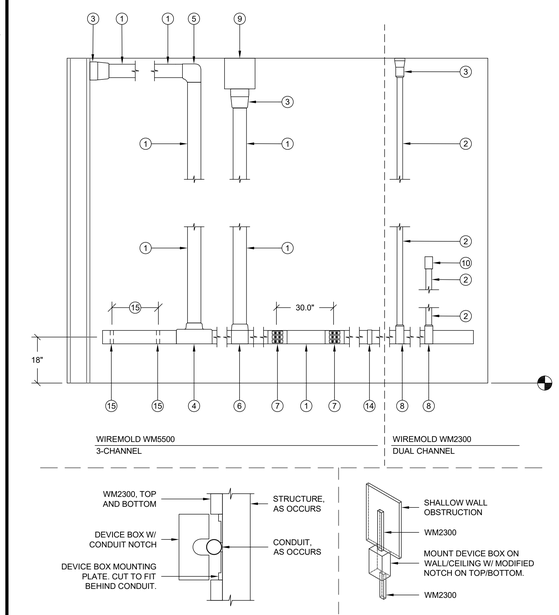


NOTE:
1) ASSEMBLY DOES NOT EXCEED 20 LBS.

10 EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT DETAIL
SCALE: NONE



7 PATCH PANEL CONNECTION DETAIL - 2RU
SCALE: NONE

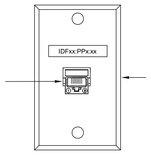


1 TYPICAL SURFACE MOUNTED RACEWAY W/ ASSEMBLY COMPONENTS DETAIL
SCALE: NONE

WIREMOLD SURFACE RACEWAY

SYMBOL	DESCRIPTION	WM5500 PART NUMBER	WM2300 PART NUMBER
1	WIREMOLD WM5500	5500	N/A
2	WIREMOLD WM2300	N/A	2300
3	ENTRANCE END FITTING	5510D	2310A
4	FULL CAPACITY TEE (FIBER READY)	N/A	N/A
5	FULL CAPACITY FLAT ELBOW 90°	5511F0	2311DFO
6	TEE	5515	2315
7	DEVICE BRACKET W/ DUAL RJ FACEPLATE. DUPLEX FACEPLATE OR BLACK FACEPLATE AS NEEDED	5550 / 5507FRJ / 5507D / 5507B	5474 / 5574
8	TRANSITION FITTING FOR WM2300	5574	2348
9	WALL MOUNTED PULL BOX SIZE AS NOTED PER PLAN	N/A	2300
10	DEVICE BOX	N/A	2348
11	END CAP	5510	2310B
12	INTERNAL ELBOW	5517FO	2317DFO
13	EXTERNAL ELBOW	5518FO	2318DFO
14	BASE SEAM COVER	5506	2306
15	WIRE CLIP	5500WC (INSTALL CLIPS AT 48" O.C. ENTIRE LENGTH OF WIREMOLD)	2300WC (INSTALL CLIPS AT 48" O.C. ENTIRE LENGTH OF WIREMOLD)
16	TRANSITION FITTING FOR WM5500 TO WM5400	5574A	N/A

NOTE:
1) DEVICE BOX (10) TO BE USED TO TRANSITION OVER CONDUIT AND SHALLOW WALL OBSTRUCTIONS (I.E. BULLETIN BOARD, TRIM, CASEWORK, ETC.) WHERE REQUIRED. UNDER NO CIRCUMSTANCES SHOULD SURFACE RACEWAY BE BENT OVER OBSTRUCTIONS.



11 TELEPHONE WALL PLATE DETAIL
SCALE: NONE

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SAN JOSE, CA 95126
TEL (408) 715-4470

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YAMASAKI LANDSCAPE ARCHITECTURE
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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
TECHNOLOGY INFRASTRUCTURE DETAILS
INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

SHEET NO.
2T-801

DATE: SEPTEMBER 24, 2024

CONSTRUCTION DOCUMENT

DATE PLOTTED: 9/24/2024 8:49:58 AM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC02_A22.rvt

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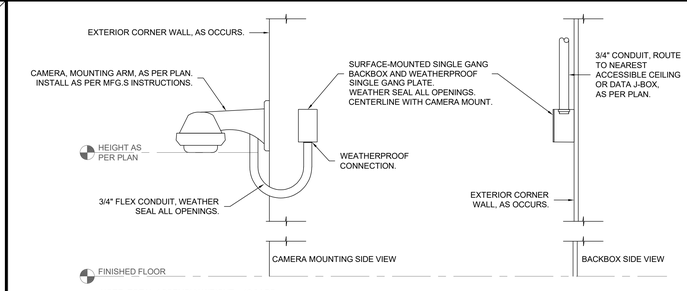
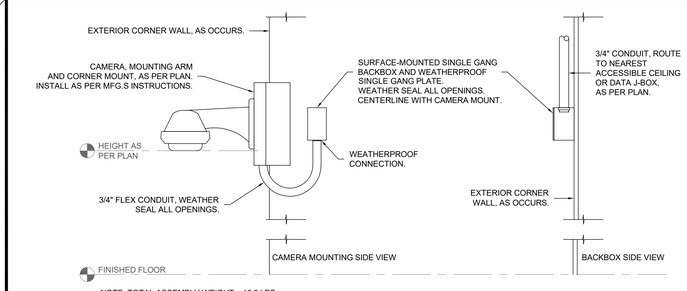


NOTE: TOTAL ASSEMBLY WEIGHT = 18.8 LBS.

2 MULTI-VIEW CCTV EXTERIOR WALL MOUNTING DETAIL
SCALE: NONE



NOTE: TOTAL ASSEMBLY WEIGHT = 18.8 LBS.

1 MULTI-VIEW CCTV EXTERIOR CORNER MOUNTING DETAIL
SCALE: NONE

AGENCY APPROVAL DSA# 01-121440

196

991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

KMM Services Inc.
TECHNOLOGY&FIRE LIFE SAFETY
5433 El Camino Ave. Suite 5
Carmichael, CA 95608
Office: (916) 359-4000
www.kmmservices.com

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
8 Harris Court, Suite A8
Monterey, CA 93940
TEL (831) 218-1802

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San Francisco, CA 94104
TEL (415) 466-2997

TECHNOLOGY ENGINEER
KMM Services Inc.
5433 El Camino Ave. Ste 5
Carmichael, CA 95608
TEL (916) 359-4000

LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

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DRAWN BY: CS/RW/JG JOB NUMBER: 23118.01

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CONSTRUCTION DOCUMENT

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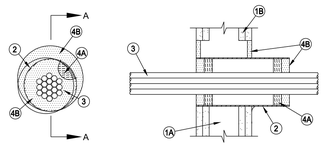
Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 **System No. W-L-3210**

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 3/4 Hr	FT Rating - 3/4 Hr
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Rating - 3/4 Hr



Section A-A

1. Wall Assembly - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (76 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* - Thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, V300, U400 , V400 or W400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 6-1/2 in. (165 mm) when sleeve (Item 2) is installed. Max diam of opening is 4 in. (102 mm) when sleeve is not used.
   The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Steel Sleeve - (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT), steel conduit, Schedule 5 (or heavier) steel pipe sleeve or min 0.016 in. thick (0.41 mm, No. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between the steel sleeve and periphery of opening shall be min 0 in. (continuous point contact) to max 2 in. (51 mm). When Schedule 5 steel pipe or EMT is used, sleeve may be installed flush with or extend up to 18 in. (46 cm) beyond one or both wall surfaces. Steel sleeve may be installed at an angle not greater than 45 degrees from perpendicular. Schedule 5 steel pipe or EMT sleeves may extend continuously beyond one wall surface. Sleeve to be rigidly supported when extending from the wall surfaces.

3. Cables - Aggregate cross-sectional area of cables in steel sleeve to be max 48 percent of the aggregate cross-sectional area of the opening or sleeve. Cables to be bundled and rigidly supported on both sides of wall assembly. When the sleeve (Item 2) is installed, the annular space between the cables and the sleeve shall be min 0 in. (point contact) to max 1-1/2 in. (38 mm). When the sleeve (Item 2) is not used, the annular space between the cables and the opening shall be a min 0 in. (point contact) to a max 1/2 in. (13 mm). Cable bundle, using cables described below, may penetrate the wall at an angle not greater than 45 degrees. Any combination of the following types and sizes of copper conductor cable may be used:
   A. Max 200 pair No. AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) or plenum-rated jacketing and insulation.
   B. Max 3/C No. 2/0 AWG (or smaller) aluminum or copper conductor service entrance cable with PVC insulation and jacket.
   C. Max 3/C No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with copper conductors, PVC insulation and jacket.
   D. Max 7/C No. 2/0 AWG (or smaller) multiconductor power and control cables with XLPE or PVC insulation and XLPE or PVC jacket.
   E. Max RG/U (or smaller) coaxial cable with fluorinated ethylene or plenum-rated insulation and jacketing.
   F. Max 62.5/48 fiber optic cable with PVC or plenum-rated insulation and jacketing.
   G. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC or plenum-rated insulation and jacket.
   H. Max 4/C No. 2/0 aluminum or copper conductor aluminum or steel Metal-Clad® or Armored-Clad® cable.
   I. Max ¾-in. (19 mm) copper ground cable with or without a PVC jacket.
4. Firestop System - The firestop system shall consist of the following:
   A. Packing Material - When required (See table in Item 4B), min 1 in. (25 mm) thickness of min 4.0 pcf (64 kg/m3) mineral wool batt insulation firmly packed into each end of sleeve as a permanent form. Packing material to be recessed from each end of sleeve as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* - Sealant or Putty - Fill material applied to appropriate thickness within steel sleeve, flush with edges of steel sleeve on both surfaces of wall. Min 1/2 in. (13 mm) thickness of fill material installed into annular space between sleeve and wall flush with both surfaces of the wall. Min 1/2 in. (13 mm) diam bead of sealant or "rope" of putty shall be applied around the perimeter of the sleeve on each side of the wall when sleeve extends beyond surface of wall and is installed at continuous point contact. See table below for fill material thickness requirements around cables.

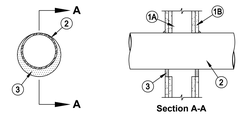
Sealant or Putty Type	Thickness, In. (mm)	Packing Material Required
SpecSeal Series SSS Sealant or LCI Sealant	1/2 in. (13)	Yes
SpecSeal Series SSS Sealant or LCI Sealant	1 in. (25)	No
SpecSeal Putty	1 in. (25)	No

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal Putty

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 **System No. W-L-1049**

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft



Section A-A

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* - 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
1A. Metallic Sleeve - (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

2. Through Penetrant - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). For maximum 16 in. (406 mm) diam (or smaller) pipes, annular space shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe - Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 36 in. (914 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing, nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
   D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum board, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.
   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

AGENCY APPROVAL DSA# 01-121440

196
991 W HEDDING ST., SUITE 101
SAN JOSE, CA 95126
TEL (408) 715-4470

KMM Services Inc.
TECHNOLOGY&FIRE LIFE SAFETY
5433 El Camino Ave. Suite 5
Carmichael, CA 95608
Office: (916) 359-4000
www.kmmservices.com

CONSULTANTS

CIVIL ENGINEER
CARROLL ENGINEERING
1101 South Winchester Blvd., Suite H184
San Jose, CA 95128
TEL (408) 261-9800

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8 Harris Court, Suite A8
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5433 El Camino Ave. Ste 5
Carmichael, CA 95608
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LANDSCAPE ARCHITECT
YAMASAKI LANDSCAPE ARCHITECTURE
1223 High Street
Auburn, CA 95603
(530) 885 0040

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