MOUNT DIABLO UNIFIED SCHOOL DISTRICT

MEADOW HOMES ES MODERNIZATION

INC.2

01-121400

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

VIEW REFERENCES

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

ABBREVIATIONS

@	AT	ID	INSIDE DIAMETER
℄	CENTER LINE	INSUL	INSULATION OR INSULATED
d	PENNY	INV	INVERT
0#	POUND	LAV	LAVATORY
⊥	PERPENDICULAR	MATL	MATERIAL
∠	ANGLE	MAX	MAXIMUM
AB	ANCHOR BOLT	MB	MACHINE BOLT
AC	ASPHALTIC CONCRETE	MECH	MECHANICAL
ACT	ACOUSTICAL CEILING TILE	MFR	MANUFACTURE OR MANUFACTURER
AFF	ABOVE FINISH FLOOR	MH	MAN HOLE
ALT	ALTERNATE	MIN	MINIMUM
ALUM	ALUMINUM	MISC	MISCELLANEOUS
ANOD	ANODIZED	MO	MASONRY OPENING
APPROX	APPROXIMATE	N	NORTH
ARCH	ARCHITECT OR ARCHITECTURAL	(N)	NEW
BD	BOARD	NIC	NOT IN CONTRACT
BLDG	BUILDING	NO OR #	NUMBER
BLK(G)	BLOCK(ING)	NTS	NOT TO SCALE
BOB	BOTTOM OF BEAM	OC	ON CENTER
BM	BEAM	OD	OUTSIDE DIAMETER
CB	CATCH BASIN	OPNG	OPENING
CI	CAST IRON	PL	PLATE OR PROPERTY LINE
CJ	CONSTRUCTION JOINT	PLAM	PLASTIC LAMINATE
CLG	CEILING	PLAS	PLASTER (NUMBER - SEE SPECS)
CLR	CLEAR	PLYWD	PLYWOOD
CMU	CONCRETE MASONRY UNIT	PNT	PAINT (NUMBER - SEE SPECS)
CO	CLEAN OUT	PTDF	PRESSURE TREATED DOUGLAS FUR
COL	COLUMN	QT	QUARRY TILE
CONC	CONCRETE	RD	ROOF DRAIN
CONT	CONTINUOUS	REF	REFRIGERATOR
CSK	COUNTERSINK	REINF	REINFORCE OR REINFORCING
CW	COLD WATER	RH	ROUND HEAD
⊏	CHANNEL	RM	ROOM
DBL	DOUBLE	RO	ROUGH OPENING
DEPT	DEPARTMENT	RWD	REDWOOD
DET	DETAIL	S	SOUTH
DF	DRINKING FOUNTAIN	S.C.D.	SEE CIVIL DRAWINGS
DIA	DIAMETER	SCH	SCHEDULE
DIAG	DIAGONAL	SD	STORM DRAIN
DN	DOWN	S.E.D.	SEE ELECTRICAL DRAWINGS
DS	DOWNSPOUT	S.F.A.D.	SEE FIRE ALARM DRAWINGS
DWG	DRAWING	SHR	SHOWER
E	EAST	SHT	SHEET
(E)	EXISTING	SHTHG	SHEATHING
EB	EXPANSION BOLT	SIM	SIMILAR
EJ	EXPANSION JOINT	SMACNA	THE ARCH SHEET METAL MANUAL
ELEV	ELEVATION	S.MP.D	SEE MECHANICAL & PLUMBING DRAWINGS
ELEC	ELECTRIC(AL)	SPEC	SPECIFICATION
EP	EDGE OF PAVING	SQ	SQUARE
EQ	EQUAL	S.S.D.	SEE STRUCTURAL DRAWINGS
EQUIP	EQUIPMENT	SSTL	STAINLESS STEEL
FD	FLOOR DRAIN	STD	STANDARD
FE(C)	FIRE EXTINGUISHER (& CABINET)	S.T.D.	SEE TECHNOLOGY DRAWINGS
FF	FINISHED FLOOR	STL	STEEL
FG	FINISHED GRADE	SUSP	SUSPENDED
FH	FLAT HEAD OR FIRE HYDRANT	SYM	SYMMETRICAL
FIN	FINISH	TOB	TOP OF BEAM
FL	FLOW LINE	TOC	TOP OF CURB OR TOP OF CONCRETE
FLG	FLASHING	TCB	TOP OF CATCH BASIN
FLR	FLOOR	TEL	TELEPHONE
FOC	FACE OF CONCRETE	TEMP	TEMPERATURE OR TEMPERED
FOF	FACE OF FINISH	T&G	TONGUE & GROOVE
FOM	FACE OF MASONRY	TP	TOP OF PAVING
FOS	FACE OF STUD	TS	STRUCTURAL TUBING
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
HTR	HEATER	WP	WATERPROOF
HVAC	HEATING/VENTILATING/AIR CONDITIONING	WS	WOOD SCREW
		WSCT	WAINSCOT
		WWF	WELDED WIRE FABRIC
		W/	WITH
		W/O	WITHOUT

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.

PROJECT DESCRIPTION

INCREMENT 2

GENERAL ALTERATION OF CLASSROOM BUILDINGS A, B, C, D, & MULTI-USE, CONSISTING OF:

- RECONFIGURATION/ACCESSIBILITY UPGRADES AT TWO RESTROOM IN BUILDING E.
- FLOORING IN-KIND REPLACEMENT
- FLOORING REPLACEMENT WITH NEW MATERIAL
- NEW CASEWORK WITH NEW ACCESSIBLE SINKS
- NEW LIGHTING
- NEW INTERIOR AND EXTERIOR PAINTING
- REPLACEMENT OF GLUE-UP TILES WITH NEW CEILING
- REPLACEMENT OF TACKABLE BOARDS
- REPLACEMENT OF ALL EXTERIOR DOORS WITH NEW FRP DOORS
- HARDWARE REPLACEMENT AT ALL EXTERIOR DOORS
- WINDOWS AND CLERESTORY REPLACEMENT WITH NEW
- REPLACEMENT IN-KIND OF HVAC EQUIPMENT IN SOME BUILDINGS.

ACCESSIBILITY UPGRADES

- NEW OUTDOOR DRINKING FOUNTAINS WITH WATER BOTTLE FILLER
- ACCESSIBILITY UPGRADES AT KINDERGARTEN CLASSROOMS
- ACCESSIBILITY UPGRADES AT PARKING LOT, DROP-OFF AREA, AND CONCRETE WALKWAYS.

INCREMENT 1
GENERAL ALTERATION TO CLASSROOM BUILDINGS G.1, G.2, G.3, G.4, H.1, H.2, H.3, H.4, I.1, I.2, J.1, & J.2 CONSISTING OF:
- FLOORING REPLACEMENT WITH NEW MATERIAL
- REPLACEMENT OF ALL EXTERIOR DOORS WITH NEW FRP DOORS
- REPLACEMENT IN-KIND OF HVAC EQUIPMENT
- NEW INTERIOR PAINTING
- NEW FIRE ALARM AT BUILDING H.1
- NEW IDF AND DATA NETWORK REPLACEMENT
- NEW CLOCK/SPEAKERS

ACCESSIBILITY UPGRADES
- ACCESSIBILITY UPGRADES AT CONCRETE WALKWAYS.
- ADA MODIFICATIONS TO WOMENS STAFF BATHROOM AT BLDG D.1

BUILDING AREAS

Name	Area
BUILDING A	4,093 SF
BUILDING B.1	3,674 SF
BUILDING B.2	2,720 SF
BUILDING C	1,521 SF
BUILDING D.1	4,093 SF
BUILDING D.2	2,720 SF
BUILDING E	5,223 SF
BUILDING F	2,728 SF
BUILDING G.1	868 SF
BUILDING G.2	2,090 SF
BUILDING G.3	1,839 SF

BUILDING AREAS

Name	Area
BUILDING G.4	1,839 SF
BUILDING H.1	901 SF
BUILDING H.2	2,776 SF
BUILDING H.3	416 SF
BUILDING H.4	883 SF
BUILDING I.1	599 SF
BUILDING I.2	1,262 SF
BUILDING I.3	4,539 SF
BUILDING J.1	1,262 SF
BUILDING J.2	4,513 SF
MULTI-USE BUILDING	5,386 SF

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

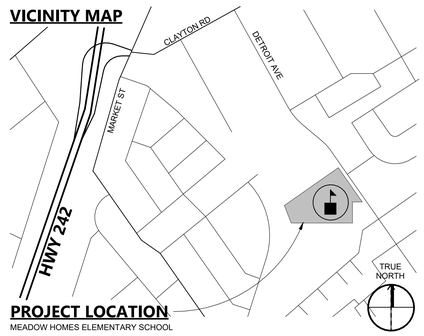
UL 300-2005(R2010) - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT

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



PROJECT LOCATION
MEADOW HOMES ELEMENTARY SCHOOL

AGENCY APPROVAL DSA# 01-121400

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

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

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
9 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

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

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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
TITLE SHEET

INCREMENT: INC.2

DRAWN BY: ZF JOB NUMBER: 23119.01

SHEET NO.
2G-001

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:29:40 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

SHEET INDEX INCREMENT 1

SHEET #	SHEET NAME
1. OVERALL GENERAL INFORMATION	
1G-001	TITLE SHEET
1G-002	CALGREEN CODE COMPLIANCE
1G-100	CODE SITE PLAN
1G-900	ACCESSIBILITY CLEARANCES
GENERAL SHEETS TOTAL: 4	
2. CIVIL ENGINEERING	
1C1.1	DEMOLITION PLAN
1C2.1	DRAINAGE & GRADING PLAN
1C3.1	NOTES, DETAILS & LEGEND
1C3.2	DETAILS
CIVIL SHEETS TOTAL: 4	
3. ARCHITECTURAL DRAWINGS	
1A-021	DEMOLITION PLAN - BLDG F, G
1A-022	DEMOLITION PLAN - BLDG H, I
1A-023	DEMOLITION PLAN - BLDG J & D
1A-101	ENLARGED SITE PLAN
1A-111	SITE DETAILS
1A-201	FLOOR PLAN - BLDG F, G
1A-202	FLOOR PLAN - BLDG H, I
1A-203	FLOOR PLAN - BLDG J
1A-221	DEMO&NEW ROOF PLAN - BLDG H1
1A-251	FINISH PLAN - BLDG F, G
1A-252	FINISH PLAN - BLDG H, I
1A-253	FINISH PLAN - BLDG J & D
1A-301	EXTERIOR ELEVATIONS
1A-302	EXTERIOR ELEVATIONS
1A-501	ENLARGED PLANS
1A-502	ENLARGED PLANS
1A-601	INTERIOR ELEVATIONS
1A-801	DOOR SCHEDULE
1A-901	WALL AND DOOR DETAILS
1A-921	INTERIOR DETAILS
1A-923	SIGNAGE DETAILS
ARCHITECTURAL SHEETS TOTAL: 21	
4. STRUCTURAL ENGINEERING	
1S-100	GENERAL NOTES
1S-201	BLDG H1 ROOF FRAMING PLAN & DETAILS
STRUCTURAL SHEETS TOTAL: 2	
5. ELECTRICAL ENGINEERING	
1E000	GENERAL INFORMATION
1E001	SCHEDULES
1E100	SITE PLAN
1E301	POWER & SIGNAL PLANS
1E302	POWER & SIGNAL PLANS
1E303	POWER & SIGNAL PLANS
1E304	POWER & SIGNAL PLANS
1E305	POWER & SIGNAL PLANS
1F000	GENERAL INFORMATION
1F001	SCHEDULES
1F100	SITE PLAN
1F301	POWER & SIGNAL PLAN
1F302	DIAGRAMS
1F401	DETAILS

SHEET #	SHEET NAME
ELECTRICAL SHEETS TOTAL: 14	
6. MECHANICAL & PLUMBING ENGINEERING	
1MP-001	LEGEND & NOTES - MECHANICAL & PLUMBING
1MP-002	SCHEDULES - MECHANICAL & PLUMBING
1MP-003	SCHEDULES - MECHANICAL & PLUMBING
1MP-201	BLDG F - DEMO & NEW FLOOR PLANS
1MP-202	BLDGS G.1 - G.4 - DEMO & NEW FLOOR PLANS
1MP-203	BLDGS H.1-H.4 - DEMO & NEW FLOOR PLANS - MECH. & PLUMB.
1MP-204	BLDG 1.2, 1.3 - DEMO & NEW FLOOR PLANS
1MP-205	BLDG J.1, J.2 - DEMO & NEW FLOOR PLANS
1MP-301	BLDG H.1 DEMO & NEW ROOF PLANS
1MP-601	DETAILS - MECHANICAL & PLUMBING
1MP-602	DETAILS - MECHANICAL & PLUMBING
1MP-801	T24 - MECHANICAL
1MP-802	T24 - MECHANICAL
MECHANICAL & PLUMBING SHEETS TOTAL: 13	
7. TECHNOLOGY	
1T-000	TECHNOLOGY INFRASTRUCTURE COVER SHEET
1T-010	TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO
1T-020	TECHNOLOGY INFRA. FLOOR PLANS DEMO
1T-021	TECHNOLOGY INFRA. FLOOR PLANS DEMO
1T-100	TECHNOLOGY INFRA. SITE PLAN NEW
1T-200	TECHNOLOGY INFRA. FLOOR PLANS NEW
1T-201	TECHNOLOGY INFRA. FLOOR PLANS NEW
1T-700	TECHNOLOGY INFRA. SINGLE LINES
1T-701	TECHNOLOGY INFRA. CCTV VIEWS
1T-800	TECHNOLOGY INFRA. DETAILS
1T-801	TECHNOLOGY INFRA. DETAILS
1T-802	TECHNOLOGY INFRA. DETAILS
TECHNOLOGY SHEETS TOTAL: 12	
OVERALL SHEET TOTAL: 70	

SHEET INDEX INCREMENT 2

SHEET #	SHEET NAME
1. OVERALL GENERAL INFORMATION	
2G-001	TITLE SHEET
2G-002	SHEET INDEX
2G-003	CALGREEN CODE COMPLIANCE
2G-100	CODE SITE PLAN
2G-201	BLDG A, B, C - EXIT ANALYSIS
2G-202	BLDG D, E - EXIT ANALYSIS
2G-900	ACCESSIBILITY CLEARANCES
GENERAL SHEETS TOTAL: 7	
2. CIVIL ENGINEERING	
2C1.1	DEMOLITION PLAN
2C2.1	DRAINAGE & GRADING PLAN
2C3.1	HORIZONTAL CONTROL PLAN
2C4.1	NOTES, DETAILS & LEGEND
2C4.2	DETAILS
CIVIL SHEETS TOTAL: 5	
3. ARCHITECTURAL DRAWINGS	
2A-021	DEMOLITION PLAN - BLDG A, C
2A-022	DEMOLITION PLAN - BLDG B
2A-023	DEMOLITION PLAN - BLDG D, E
2A-031	DEMO REFLECTED CEILING PLAN - BLDG A, B
2A-032	DEMO REFLECTED CEILING PLAN - BLDG D, E
2A-041	DEMO EXTERIOR ELEVATIONS - BLDG A, B1, B2
2A-042	DEMO EXTERIOR ELEVATIONS - BLDG C, D1, D2
2A-043	DEMO EXTERIOR ELEVATIONS - BLDG E
2A-101	ENLARGED SITE PLANS
2A-111	SITE DETAILS
2A-201	FLOOR PLAN - BLDG A, B, C
2A-202	FLOOR PLAN - BLDG D, E
2A-211	REFLECTED CEILING PLAN - BLDG A, B
2A-212	REFLECTED CEILING PLAN - BLDG D, E
2A-221	DEMO & NEW ROOF PLAN - BLDG B
2A-222	DEMO & NEW ROOF PLAN - BLDG C, MULTI-USE
2A-251	SIGNAGE & FINISH PLANS - BLDG A, B, C
2A-252	SIGNAGE & FINISH PLANS - BLDG D, E
2A-301	EXTERIOR ELEVATIONS - BLDG A, B1
2A-302	EXTERIOR ELEVATIONS - BLDG B2, C, D1& MPR
2A-303	EXTERIOR ELEVATIONS - BLDG D2, E
2A-401	BUILDING SECTIONS A, B.1
2A-402	BUILDING SECTIONS D.2, E
2A-403	WALL SECTIONS
2A-501	RESTROOM PLAN ENLARGEMENTS
2A-502	RESTROOM PLAN ENLARGEMENTS
2A-601	INTERIOR ELEVATIONS
2A-602	INTERIOR ELEVATIONS
2A-603	INTERIOR ELEVATIONS
2A-604	INTERIOR ELEVATIONS
2A-605	INTERIOR ELEVATIONS
2A-606	INTERIOR ELEVATIONS
2A-607	CASEWORK PLANS & ELEVATIONS
2A-608	CASEWORK PLANS & 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-923	CEILING DETAILS
2A-924	CEILING DETAILS
2A-925	SIGNAGE DETAILS
2A-931	CASEWORK DETAILS
ARCHITECTURAL SHEETS TOTAL: 44	
4. STRUCTURAL ENGINEERING	
2S-100	GENERAL NOTES
2S-201	BUILDING E - FOUNDATION BUILDING PLAN
2S-202	BUILDING FRAMING PLAN - BLDG B.1, C AND MULTIUSE BUILDING
2S-501	TYPICAL CONCRETE DETAILS
2S-800	NAILING SCHEDULE
2S-801	FRAMING DETAILS
STRUCTURAL SHEETS TOTAL: 6	

SHEET #	SHEET NAME
5. ELECTRICAL ENGINEERING	
2E000	GENERAL INFORMATION
2E001	SCHEDULES
2E002	SCHEDULES
2E003	SCHEDULES
2E100	SITE PLAN
2E201	LIGHTING PLANS
2E202	LIGHTING PLANS
2E203	LIGHTING PLANS
2E204	LIGHTING PLANS
2E205	LIGHTING PLANS
2E300	POWER & SIGNAL 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	GENERAL INFORMATION
2E502	SCHEDULES
2E503	SCHEDULES
2E504	SCHEDULES
2E505	SCHEDULES
ELECTRICAL SHEETS TOTAL: 24	
6. FIRE ALARM	
2F000	GENERAL INFORMATION
2F100	SITE PLAN
2F200	FIRE ALARM PLANS
2F201	FIRE ALARM PLANS
2F202	FIRE ALARM PLANS
2F203	FIRE ALARM PLANS
2F204	FIRE ALARM PLANS
2F205	FIRE ALARM PLANS
2F206	FIRE ALARM PLANS
FIRE ALARM SHEETS TOTAL: 9	
7. MECHANICAL & PLUMBING ENGINEERING	
2MP-001	LEGENDS & NOTES - MECHANICAL & PLUMBING
2MP-002	SCHEDULES - MECHANICAL & PLUMBING
2MP-201	BLDG C - DEMO & NEW FLOOR PLANS
2MP-202	BLDG B.1, B.2 - DEMO & NEW FLOOR PLANS
2MP-203	BLDG D.1, D.2 - DEMO & NEW FLOOR PLANS
2MP-204	BLDG E - DEMO & NEW FLOOR PLANS
2MP-205	BLDG MULTI-USE - DEMO & NEW FLOOR PLANS
2MP-301	BLDGS C & MU - DEMO & NEW ROOF PLAN
2MP-401	BLDG E - DEMO & NEW RESTROOM PLANS
2MP-402	BLDG E - DEMO & NEW RESTROOM PLANS
2MP-501	CONTROLS - MECHANICAL
2MP-601	DETAILS - MECHANICAL & PLUMBING
2MP-602	DETAILS - MECHANICAL & PLUMBING
2MP-801	T24 - MECHANICAL
MECHANICAL & PLUMBING SHEETS TOTAL: 14	
8. TECHNOLOGY	
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 CCTV VIEWS
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: 124	

OVERALL SITE PLAN

LEGEND

SCHOOL PROPERTY LINE.

(E) BUILDING

(E) FENCE

NOTE: THE PURPOSE OF THIS SITE PLAN IS ONLY TO SHOW OVERALL SITE PLAN WITH ENCLOSED PROPERTY LINE.



TRUE NORTH

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

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

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

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

AGENCY APPROVAL DSA# 01-121400

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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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
SHEET INDEX

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2G-002

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:29:42 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

CODE SECTION & DESCRIPTION	LOCATION IN DOCUMENTS/ COMPLIANCE
5.106 SITE DEVELOPMENT	
5.106.4.2 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.*	N/A

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."

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.*	N/A - NO CHANGE TO EXISTING DRAINAGE
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	
5.303.1 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.*	N/A - NO NEW FIXTURES
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.*	SEE PLUMBING DRAWINGS
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 meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.*	SEE PLUMBING DRAWINGS
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.*	N/A
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 DRAWINGS
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 SPECIFICATIONS
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.*	N/A
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.*	N/A
5.504.4.4.2 CARPET ADHESIVE *All carpet adhesive shall meet the requirements of Table 5.504.4.1.*	N/A
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 described 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 SPECIFICATIONS
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.

THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE 2022 CALGREEN CODE (TITLE 24CCR, PART II) AS ADOPTED BY THE CITY OF _____, WITH APPLICABLE CITY CODE AMMENDMENTS. MANDATORY MEASURES ARE LOCATED AT DRAWING SHEET 1G-002.

C-36107 01-31-25

SIGNATURE OF THE ARCHITECT/ENGINEER DATE LICENSE NUMBER EXPIRATION DATE

AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP

LICENSED ARCHITECT MARINA 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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
CALGREEN CODE COMPLIANCE

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2G-003

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:29:45 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

BUILDING INFORMATION_WING A

BUILDING NAME	BUILDING HEIGHT	STORIES	BUILDING AREA	OCCUPANCY TYPE	CONSTRUCTION TYPE	SPRINKLER	ORIGINAL D.S.A.#
BUILDING A	14'-0"	1	4,100 SF	E	V-N	No	8711

BUILDING INFORMATION_WING B

BUILDING NAME	BUILDING HEIGHT	STORIES	BUILDING AREA	OCCUPANCY TYPE	CONSTRUCTION TYPE	SPRINKLER	ORIGINAL D.S.A.#
BUILDING B.1	14'-0"	1	3,675 SF	B, E	V-N	No	8711, 10361
BUILDING B.2	14'-0"	1	2,725 SF	E	V-N	No	10361

BUILDING INFORMATION_WING C

BUILDING NAME	BUILDING HEIGHT	STORIES	BUILDING AREA	OCCUPANCY TYPE	CONSTRUCTION TYPE	SPRINKLER	ORIGINAL D.S.A.#
BUILDING C		1	1,500 SF	E	V-N	No	53655

BUILDING INFORMATION_WING D

BUILDING NAME	BUILDING HEIGHT	STORIES	BUILDING AREA	OCCUPANCY TYPE	CONSTRUCTION TYPE	SPRINKLER	ORIGINAL D.S.A.#
BUILDING D.1	14'-0"	1	4,100 SF	E	V-N	No	8711
BUILDING D.2	14'-0"	1	2,725 SF	E	V-N	No	10361, 13225

BUILDING INFORMATION_WING E

BUILDING NAME	BUILDING HEIGHT	STORIES	BUILDING AREA	OCCUPANCY TYPE	CONSTRUCTION TYPE	SPRINKLER	ORIGINAL D.S.A.#
BUILDING E	14'-0"	1	5,250 SF	E	V-N	No	8711, 10361

BUILDING INFORMATION_WING F

BUILDING NAME	BUILDING HEIGHT	STORIES	BUILDING AREA	OCCUPANCY TYPE	CONSTRUCTION TYPE	SPRINKLER	ORIGINAL D.S.A.#
BUILDING F		1	2,750 SF	E	V-N	No	56092

BUILDING INFORMATION_WING G

BUILDING NAME	BUILDING HEIGHT	STORIES	BUILDING AREA	OCCUPANCY TYPE	CONSTRUCTION TYPE	SPRINKLER	ORIGINAL D.S.A.#
BUILDING G.1		1	875 SF	E	V-N	No	01-112737
BUILDING G.2		1	2,050 SF	E	V-N	No	01-104696
BUILDING G.3	13'-4"	1	1,850 SF	E	V-N	No	01-104736
BUILDING G.4	16'-6"	1	1,825 SF	E	V-N	No	01-109284

BUILDING INFORMATION_WING H

BUILDING NAME	BUILDING HEIGHT	STORIES	BUILDING AREA	OCCUPANCY TYPE	CONSTRUCTION TYPE	SPRINKLER	ORIGINAL D.S.A.#
BUILDING H.1		1	900 SF	E	V-N	No	56092
BUILDING H.2		1	2,775 SF	E	V-N	No	01-100156
BUILDING H.3	13'-4"	1	425 SF	E	V-N	No	01-103846
BUILDING H.4	13'-4"	1	875 SF	E	V-N	No	01-103846

BUILDING INFORMATION_WING I

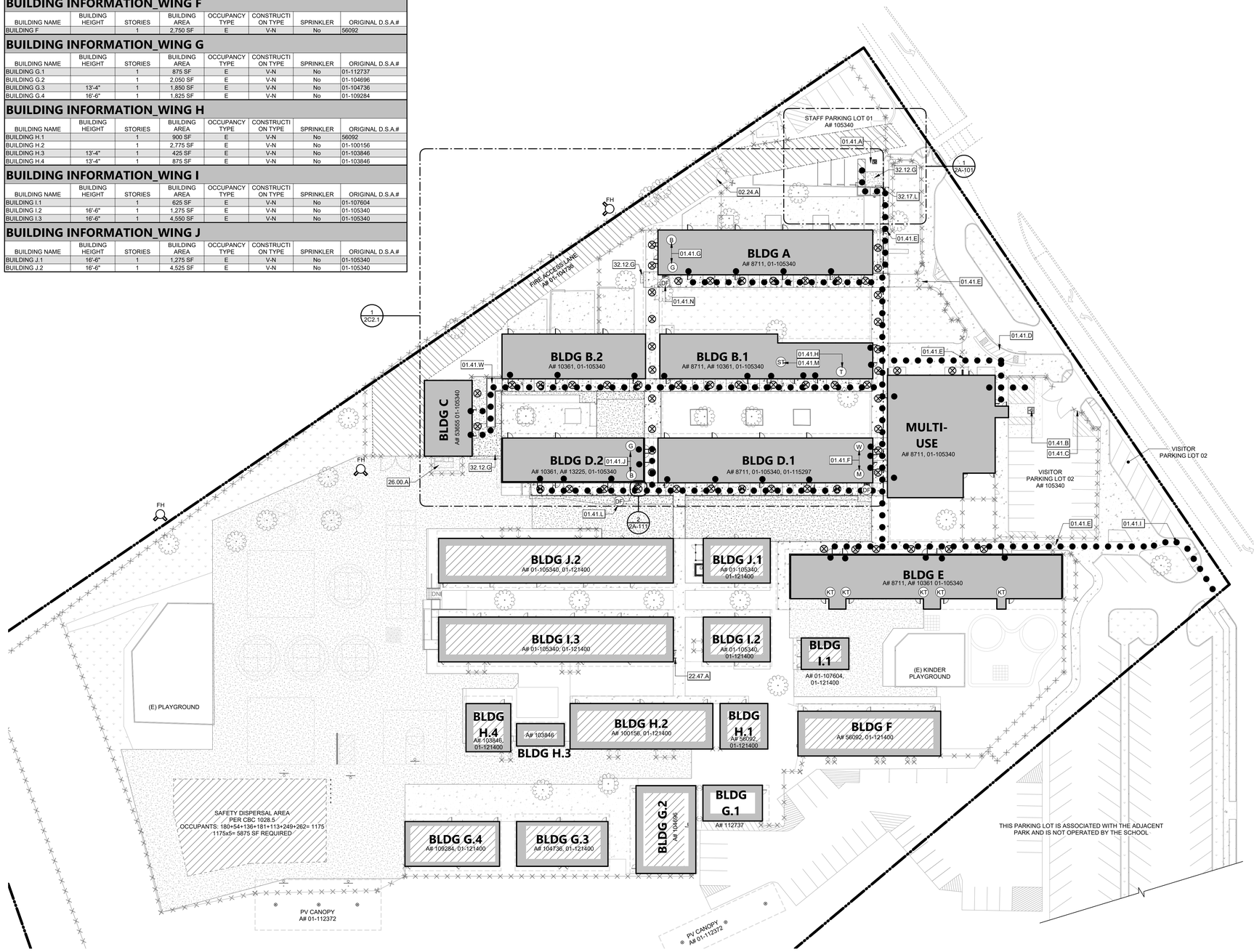
BUILDING NAME	BUILDING HEIGHT	STORIES	BUILDING AREA	OCCUPANCY TYPE	CONSTRUCTION TYPE	SPRINKLER	ORIGINAL D.S.A.#
BUILDING I.1		1	625 SF	E	V-N	No	01-107604
BUILDING I.2	16'-6"	1	1,275 SF	E	V-N	No	01-105340
BUILDING I.3	16'-6"	1	4,550 SF	E	V-N	No	01-105340

BUILDING INFORMATION_WING J

BUILDING NAME	BUILDING HEIGHT	STORIES	BUILDING AREA	OCCUPANCY TYPE	CONSTRUCTION TYPE	SPRINKLER	ORIGINAL D.S.A.#
BUILDING J.1	16'-6"	1	1,275 SF	E	V-N	No	01-105340
BUILDING J.2	16'-6"	1	4,525 SF	E	V-N	No	01-105340

PARKING LOT ANALYSIS

TOTAL NUMBER OF STALLS	NUMBER OF ACC. STALLS REQUIRED	NUMBER OF ACC. STALLS PROVIDED	NUMBER OF VAN ACC. STALLS PROVIDED
PARKING LOT 01			
8	1	1	1
PARKING LOT 02			
23	1	1	1



KEYNOTES

01.41.A	(N) VAN ACCESSIBLE PARKING STALL AND SIGNAGE. S.C.D.
01.41.B	(E) ACCESSIBLE VAN PARKING STALL A#01-105340
01.41.C	(E) TOW SIGN A#01-105340
01.41.D	(E) ACCESSIBLE STUDENT DROP-OFF. PART OF THIS APPLICATION INC. 1
01.41.E	(E) ACCESSIBLE EGRESS GATE W/ PANIC HARDWARE. SEE 15/2A-111 FOR REFERENCE ONLY
01.41.F	(E) ACCESSIBLE STAFF TOILET ROOM A#01-103846 & MODIFICATIONS PART OF THIS APPLICATION INC 1.
01.41.G	(E) ACCESSIBLE STUDENT TOILET ROOM A#01-103846
01.41.H	(N) ACCESSIBLE ADULT/STAFF SINGLE-USER TOILET ROOM
01.41.I	ACCESSIBLE PATH FROM THE PUBLIC RIGHT OF WAY TO THE SCHOOL CAMPUS
01.41.J	(E) ACCESSIBLE STUDENT TOILET ROOM A#01-115297
01.41.L	(N) HI-LO ACCESSIBLE DRINKING FOUNTAIN SERVING AREA OF WORK
01.41.M	(N) ACCESSIBLE STUDENT SINGLE-USER TOILET
01.41.N	(E) HI-LO ACCESSIBLE DRINKING FOUNTAIN. APP# 01-105340
01.41.W	(E) ACCESSIBLE RAMP A#10361
02.24.A	REMOVE AND REINSTALL (E) GATE, SEE DETAIL 2/2A702
22.47.A	(E) HI-LOW DRINKING FOUNTAIN TO REMAIN
26.00.A	(E) ELECTRICAL EQUIPMENT TO REMAIN
32.12.G	(N) ASPHALT PAVING
32.17.L	(N) VAN ACCESSIBLE PARKING STALL AND SIGNAGE

LEGEND - CODE SITE 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: 180+54+136+181+113+249+262= 1175x5= 5875 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.

LEGEND - SITE PLAN

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- (E) FENCE LINE
- PROJECT BUILDING INCREMENT 1 - NOT IN SCOPE
- PROJECT BUILDING INCREMENT 2
- (E) BUILDING - N.I.C.
- (E) LANDSCAPING
- (N) CONCRETE PAVING PER CIVIL DRAWINGS
- (E) CONCRETE PAVING
- (N) AC PAVEMENT PER CIVIL DRAWINGS
- (E) AC PAVEMENT PER CIVIL DRAWINGS

PATH OF TRAVEL (P.O.T.)

- 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.

- (E) EXTERIOR LIGHTING ALONG P.O.T.
- FH (E) FIRE HYDRANT
- FDC (E) FIRE DEPARTMENT CONNECTION
- DF ACCESSIBLE HI-LOW DRINKING FOUNTAIN
- T ACCESSIBLE ADULT/STAFF SINGLE-USER TOILET ROOM
- M W ACCESSIBLE ADULT/STAFF MULTI-USER TOILET ROOM
- ST ACCESSIBLE STUDENT SINGLE-USER TOILET
- B G ACCESSIBLE STUDENT MULTI-USER TOILET
- KT ACCESSIBLE KINDERGARTEN STUDENT TOILET

SITE PLAN - CODE ANALYSIS

1" = 30'-0" | 1

AGENCY APPROVAL DSA# 01-121400

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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
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MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
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SHEET TITLE
CODE SITE PLAN

INCREMENT: INC.2

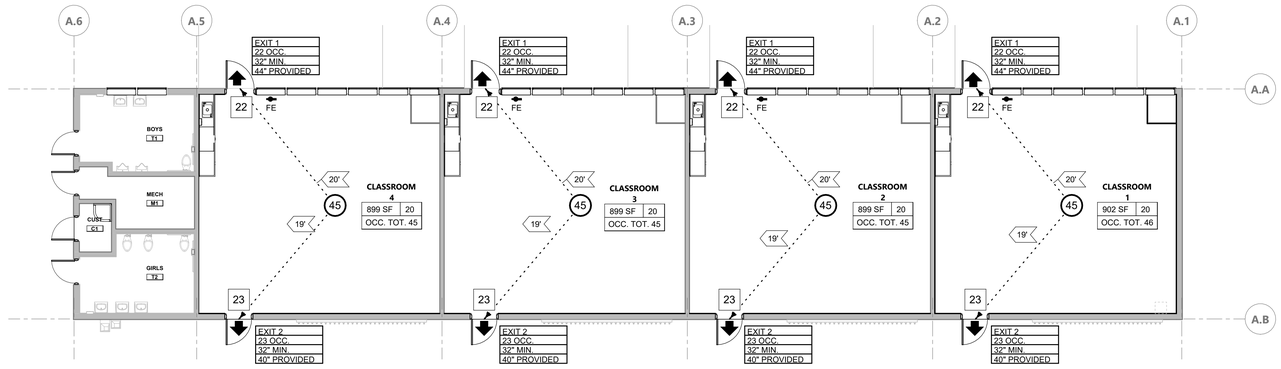
DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2G-100

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:29:48 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

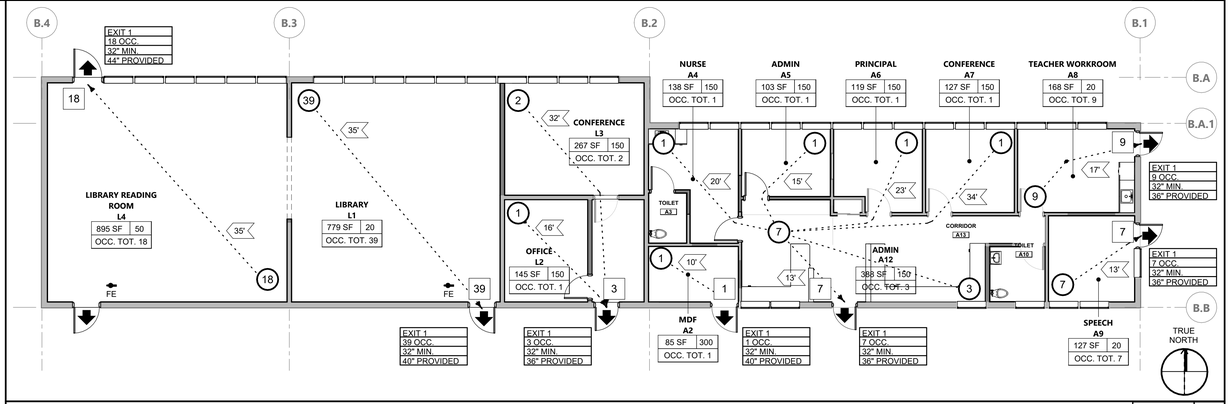


OCCUPANT CHART PER 2022 CBC TABLE 1004.5 - BUILDING A

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
BUILDING A										
1	CLASSROOM	EDUCATIONAL CLASSROOM AREA	902 SF	20 SF	46	E	49	2'-8"	1	2
2	CLASSROOM	EDUCATIONAL CLASSROOM AREA	899 SF	20 SF	45	E	49	2'-8"	1	2
3	CLASSROOM	EDUCATIONAL CLASSROOM AREA	899 SF	20 SF	45	E	49	2'-8"	1	2
4	CLASSROOM	EDUCATIONAL CLASSROOM AREA	899 SF	20 SF	45	E	49	2'-8"	1	2
OCCUPANT TOTAL:					181					

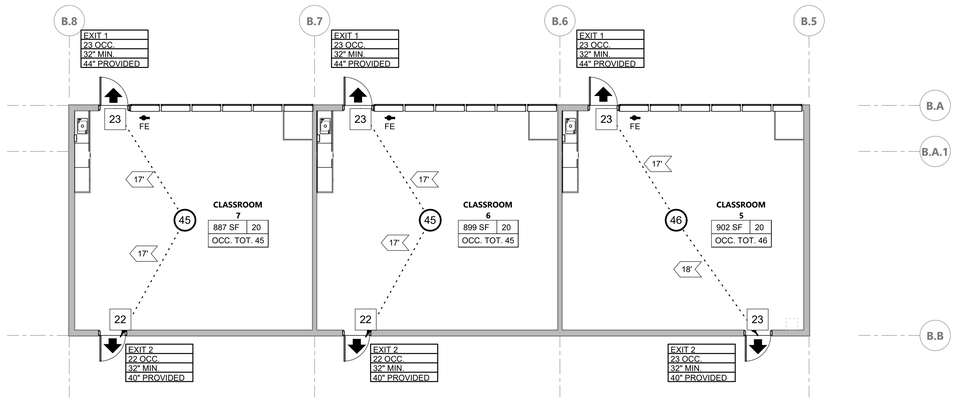
EXIT ANALYSIS PLAN - BUILDING A

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



EXIT ANALYSIS PLAN - BUILDING B.1

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

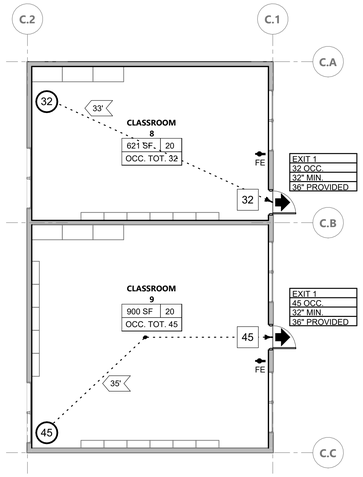


OCCUPANT CHART PER 2022 CBC TABLE 1004.5 - BUILDING B

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
BUILDING B										
5	CLASSROOM	EDUCATIONAL CLASSROOM AREA	902 SF	20 SF	46	E	49	2'-8"	1	2
6	CLASSROOM	EDUCATIONAL CLASSROOM AREA	899 SF	20 SF	45	E	49	2'-8"	1	2
7	CLASSROOM	EDUCATIONAL CLASSROOM AREA	887 SF	20 SF	45	E	49	2'-8"	1	2
A2	MDF	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	85 SF	300 SF	1	B	49	2'-8"	1	1
A4	NURSE	BUSINESS AREAS	138 SF	150 SF	1	E	49	2'-8"	1	1
A5	ADMIN	BUSINESS AREAS	103 SF	150 SF	1	B	49	2'-8"	1	1
A6	PRINCIPAL	BUSINESS AREAS	119 SF	150 SF	1	B	49	2'-8"	1	1
A7	CONFERENCE	BUSINESS AREAS	127 SF	150 SF	1	B	49	2'-8"	1	1
A8	TEACHER WORKROOM	EDUCATIONAL CLASSROOM AREA	168 SF	20 SF	9	E	49	2'-8"	1	2
A9	SPEECH	EDUCATIONAL CLASSROOM AREA	127 SF	20 SF	7	E	49	2'-8"	1	1
A12	RECORDS	BUSINESS AREAS	388 SF	150 SF	3	B	49	2'-8"	1	1
L1	LIBRARY	LIBRARY STACK AREA	779 SF	100 SF	39	E	49	2'-8"	1	1
L2	OFFICE	BUSINESS AREAS	145 SF	150 SF	1	B	49	2'-8"	1	1
L3	CONFERENCE	BUSINESS AREAS	267 SF	150 SF	2	E	49	2'-8"	1	1
L4	LIBRARY READING ROOM	LIBRARY READING ROOMS	895 SF	50 SF	18	E	49	2'-8"	1	2
OCCUPANT TOTAL:					220					

EXIT ANALYSIS PLAN - BUILDING B.2

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



OCCUPANT CHART PER 2022 CBC TABLE 1004.5 - BUILDING C

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
BUILDING C										
8	CLASSROOM	EDUCATIONAL CLASSROOM AREA	621 SF	20 SF	32	E	49	2'-8"	1	1
9	CLASSROOM	EDUCATIONAL CLASSROOM AREA	900 SF	20 SF	45	E	49	2'-8"	1	1
OCCUPANT TOTAL:					77					

EXIT ANALYSIS PLAN - BUILDING C

1/8" = 1'-0" | 4

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

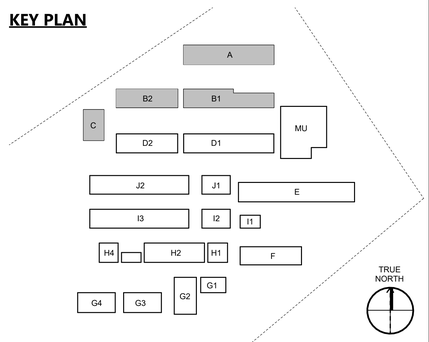
EGRESS WIDTH TAG

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

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

- BUILDING EXIT
- EGRESS DISTANCE
- PH — PANIC HARDWARE
- Act — DOOR ACTUATOR
- FE — FIRE EXTINGUISHER (FE)
- ### — OCCUPANTS EXITING, OR TOTAL OCCUPANTS THIS ROOM
- ### — OCCUPANTS ALONG PATH, OR BLEACHER SEATING OCCUPANT COUNT
- EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS

KEY PLAN



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Concord, CA 94520

SHEET TITLE
BLDG A, B, C - EXIT ANALYSIS

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.

2G-201

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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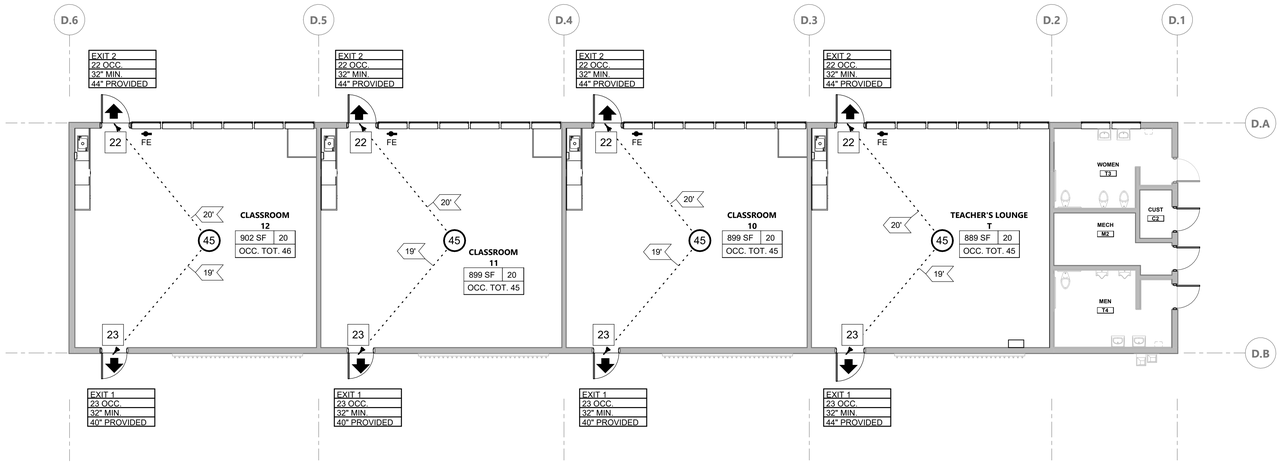
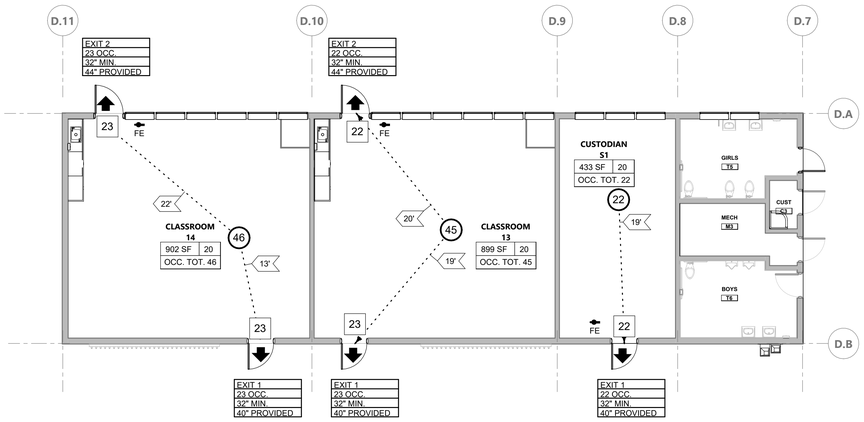


TRUE NORTH

EXIT ANALYSIS PLAN - BUILDING D.1 | 1/8" = 1'-0" | 1

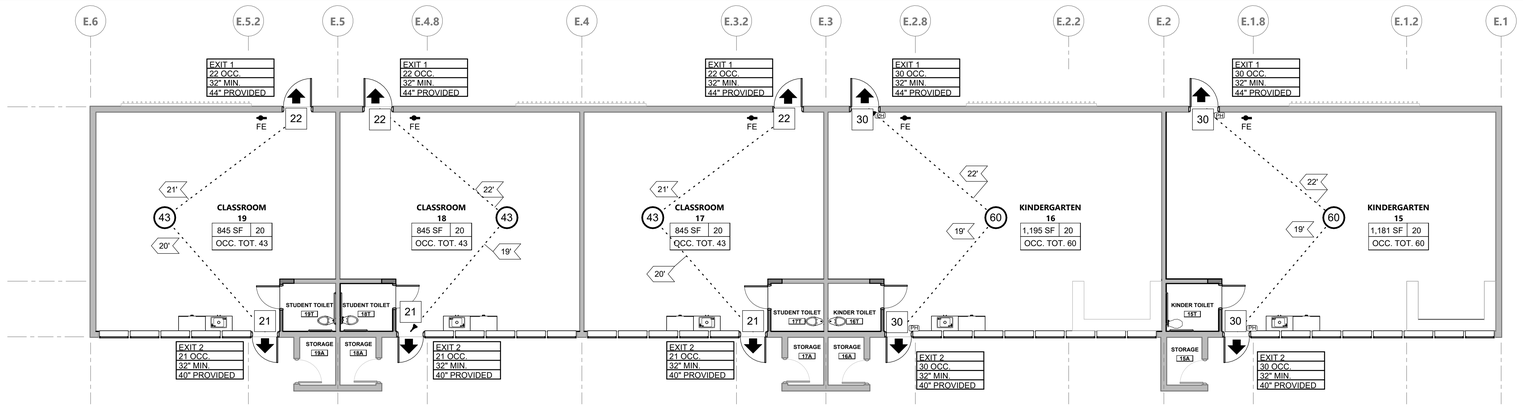


OCCUPANT CHART PER 2022 CBC TABLE 1004.5 - BUILDING D

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
BUILDING D										
10	CLASSROOM	EDUCATIONAL CLASSROOM AREA	899 SF	20 SF	45	E	49	2'-8"	1	1
11	CLASSROOM	EDUCATIONAL CLASSROOM AREA	899 SF	20 SF	45	E	49	2'-8"	1	1
12	CLASSROOM	EDUCATIONAL CLASSROOM AREA	902 SF	20 SF	46	E	49	2'-8"	1	1
13	CLASSROOM	EDUCATIONAL CLASSROOM AREA	899 SF	20 SF	45	E	49	2'-8"	1	1
14	CLASSROOM	EDUCATIONAL CLASSROOM AREA	902 SF	20 SF	46	E	49	2'-8"	1	1
S1	CUSTODIAN	EDUCATIONAL CLASSROOM AREA	433 SF	20 SF	22	E	49	2'-8"	1	1
T	TEACHER'S LOUNGE	EDUCATIONAL CLASSROOM AREA	889 SF	20 SF	45	E	49	2'-8"	1	1
OCCUPANT TOTAL:					294					

TRUE NORTH

EXIT ANALYSIS PLAN - BUILDING D.2 | 1/8" = 1'-0" | 2



OCCUPANT CHART PER 2022 CBC TABLE 1004.5 - BUILDING E

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
BUILDING E										
15	KINDERGARTEN	EDUCATIONAL CLASSROOM AREA	1,181 SF	20 SF	60	E	49	2'-8"	2	2
16	KINDERGARTEN	EDUCATIONAL CLASSROOM AREA	1,195 SF	20 SF	60	E	49	2'-8"	2	2
17	CLASSROOM	EDUCATIONAL CLASSROOM AREA	845 SF	20 SF	43	E	49	2'-8"	1	2
18	CLASSROOM	EDUCATIONAL CLASSROOM AREA	845 SF	20 SF	43	E	49	2'-8"	1	2
19	CLASSROOM	EDUCATIONAL CLASSROOM AREA	845 SF	20 SF	43	E	49	2'-8"	1	2
OCCUPANT TOTAL:					249					

TRUE NORTH

EXIT ANALYSIS PLAN - BUILDING E | 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

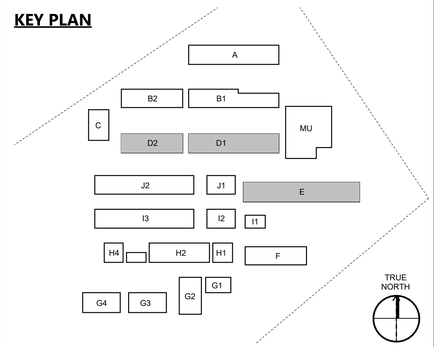
EGRESS WIDTH TAG

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

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

- BUILDING EXIT
- EGRESS DISTANCE
- PH — PANIC HARDWARE
- Act — DOOR ACTUATOR
- FE — FIRE EXTINGUISHER (FE)
- ### — OCCUPANTS EXITING, OR TOTAL OCCUPANTS THIS ROOM
- ### — OCCUPANTS ALONG PATH, OR BLEACHER SEATING OCCUPANT COUNT
- EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS

KEY PLAN



TRUE NORTH

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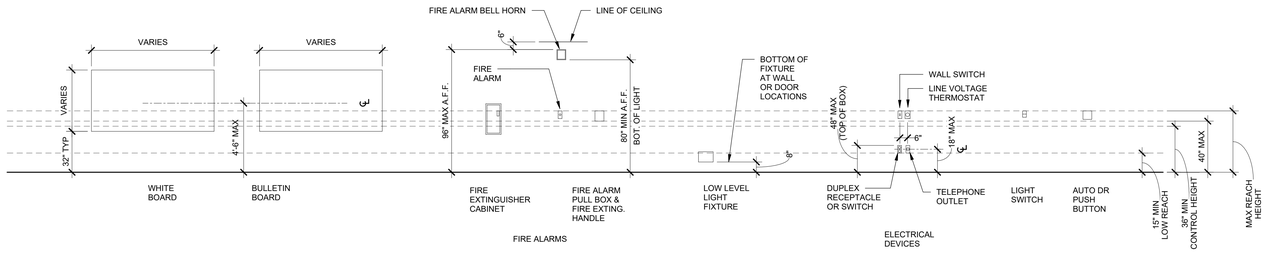
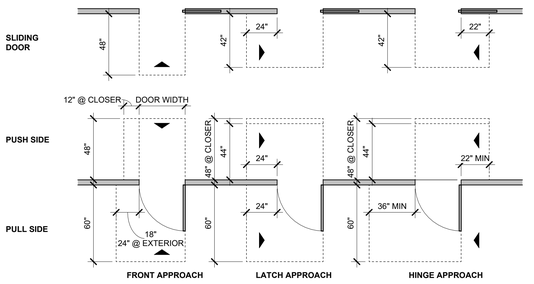
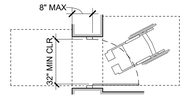


TYPICAL MOUNTING HEIGHTS | 1/4" = 1'-0" | 2



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

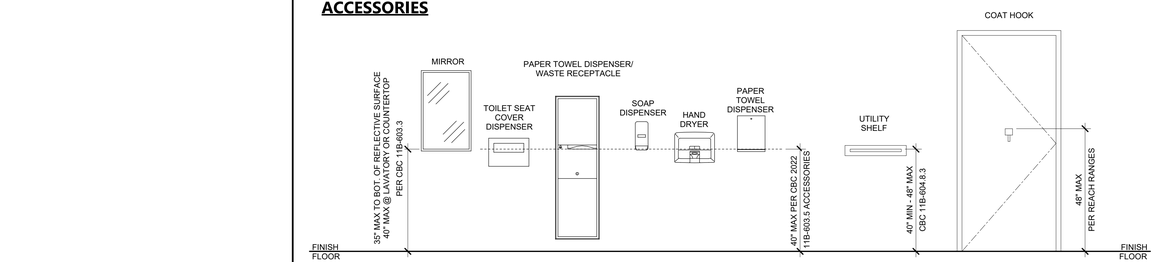


CLEAR WIDTH PER CBC 11B-404.2.3 DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (813 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE 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).

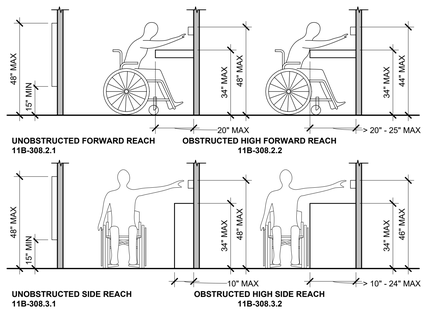
RECESSED DOORS PER CBC 11B-404.2.4.3 MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES (457 MM) OF THE LATCH SIDE AT AN INTERIOR DOORWAY, OR WITHIN 24 INCHES (610 MM) OF THE LATCH SIDE OF AN EXTERIOR DOORWAY, PROJECTS MORE THAN 8 INCHES (203 MM) BEYOND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

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

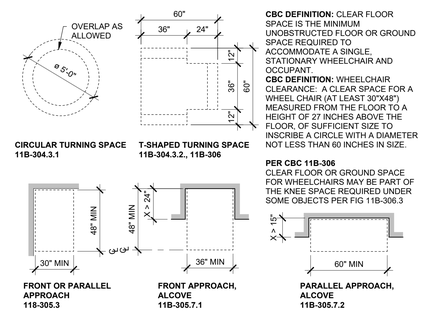
ACCESSORIES



ADULT ACCESSIBLE ACCESSORY DIMENSION | 1/2" = 1'-0" | 5



REACH RANGE | 3/8" = 1'-0" | 4



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

TURNING SPACE, CLEAR FLOOR SPACE | 1/4" = 1'-0" | 3

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.

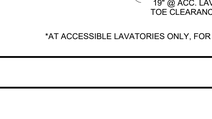
11B-606.1 GENERAL LAVATORIES AND SINKS SHALL COMPLY WITH SECTION 11B-606.

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.

KNEE AND TOE CLEARANCE SECTION



KNEE AND TOE CLEARANCE PLAN @ ACCESSIBLE LAVATORY



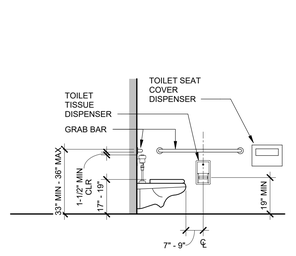
*AT ACCESSIBLE LAVATORIES ONLY, FOR SINK CLEARANCES SEE 1A-921

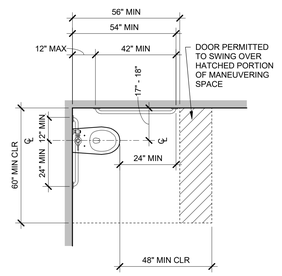
KNEE AND TOE CLEARANCE | 1/2" = 1'-0" | 6

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





ACCESSIBLE WATER CLOSET | 3/8" = 1'-0" | 7

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INC 2

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CONSTRUCTION DOCUMENTS

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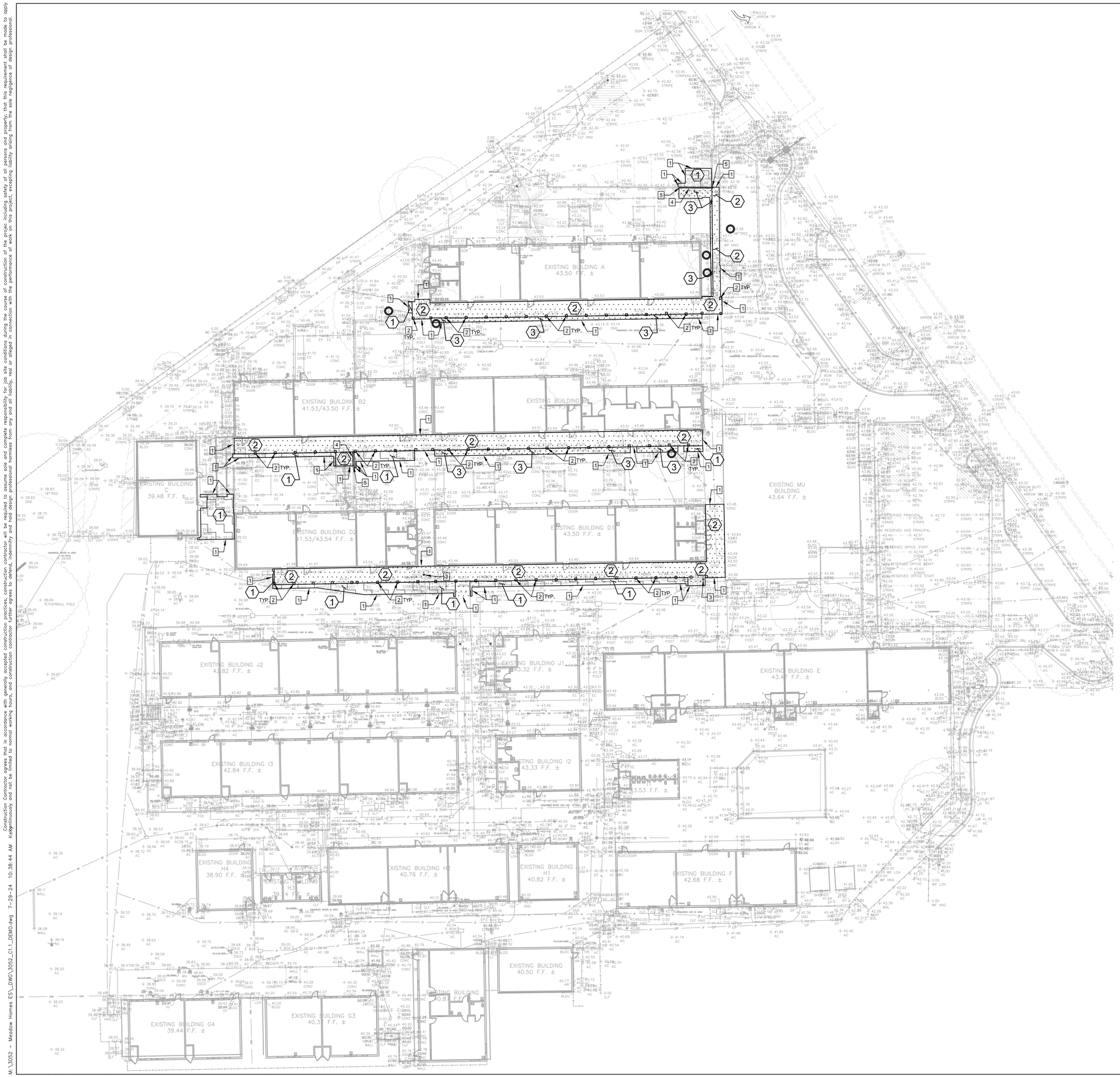

20 0 20 40

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

LEGEND

- TREE TO REMAIN – PROTECT FROM DAMAGE.
- (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.

1. SAWCUT ASPHALT OR REMOVE CONCRETE TO NEAREST CONTROL JOINT
2. POST & OVERHANG TO REMIAN. SAWCUT CONCRETE & FOOTING 7" FROM CENTER OF POST. PROTECT FROM DAMAGE, TYP.
3. UTILITY BOX / CLEAN OUT TO REMAIN. PROTECT FROM DAMAGE, TYP.
4. REMOVE CONCRETE CURB
5. EXTENT OF CURB REMOVAL

NOTES:

1. THE LIMITS OF DEMOLITION SHOWN HEREON ARE TO PROVIDE THE CONTRACTOR WITH A GENERAL SCOPE OF WORK. PRECISE LIMITS OF PAVEMENT REMOVAL AND GRADING SHOULD BE TAKEN FROM THE GRADING AND DRAINAGE PLAN. THE CONTRACTOR SHOULD ALSO REFERENCE ARCHITECTURAL PLANS, AND THE CONSTRUCTION DOCUMENTS FOR A COMPLETE SCOPE OF WORK. (VERIFY ALL DEMOLITION WITH THE SCHOOL DISTRICT).

2. DEMOLITION WORK SHALL CONFORM TO CAL GREEN CODE SECTIONS 5.408.3 (CONSTRUCTION WASTE REDUCTION BY AT LEAST 50%) AND 5.408..4 (EXCAVATED SOIL AND LAND CLEARING DEBRIS), AND LOCAL CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS. THE MOST STRINGENT CODE SHALL PREVAIL.

3. ALL SIGNS, POSTS, AND FOOTINGS TO BE REMOVED WITHIN THE LIMITS OF DEMOLITION UNLESS NOTED OTHERWISE.

4. REFER TO ORIGINAL DESIGN DRAWINGS, AVAILABLE FROM DISTRICT, FOR EXISTING BUILDINGS (FOOTINGS, MATERIALS, ETC.).

5. EXISTING TURF TO REMAIN. LANDSCAPE CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR IF REPLACEMENT IS REQUIRED DUE TO STAGING, CONSTRUCTION ACCESS, OR CONSTRUCTION ACTIVITY. REPAIR WITH SOD TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. TURF AREAS FENCED DURING CONSTRUCTION SHALL BE MAINTAINED (MOWED, WATERED, AND FERTILIZED) BY CONTRACTOR.

WHERE NEW SOD IS INSTALLED, SHOVEL CUT EDGE OF EXISTING TURF VERTICAL AND STRAIGHT, AMEND SOIL AND GRADE TO RECEIVE NEW SOD FLUSH WITH EXISTING EDGES. DO NOT SCALE SOD REPAIR FROM THIS DRAWING. COORDINATE WITH GENERAL CONTRACTOR FOR EXTENT OF REPAIR REQUIRED TO RESTORE TURF DUE TO CONSTRUCTION ACTIVITY.

AGENCY APPROVAL DSA# 01-121400

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REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MARTUS
No. C 68770
Exp. 09/30/25
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
-	12-19-2023	DSA SUBMITTAL

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

PROJECT OWNER & TITLE

MT. DIABLO UNIFIED SCHOOL DISTRICT
2326 Bisso Lane
Concord, CA 94520

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

DEMOLITION PLAN

DRAWN BY: KOM JOB NUMBER: 23119.02 CEI #: 3052

SHEET NO.

2C1.1

DATE: JULY 30, 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 agrees to indemnify and hold the owner and the architect 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 professionals.

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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.

GRADING CONSTRUCTION DETAIL REFERENCES
SEE SHEETS 2C3.1 & 2C3.2

1. PEDESTRIAN AC PAVEMENT SECTION PER DETAIL 1 / 2C3.1
1A. AUTO AC PAVEMENT SECTION PER DETAIL 1 / 2C3.1
2. CONCRETE PAVING PER DETAIL 2 / 2C3.1
3. (N) CONCRETE TO (E) CONCRETE PER DETAIL 3 / 2C3.1
4. (N) AC PAVEMENT TO (E) AC PAVEMENT PER DETAIL 4 / 2C3.1
5. (N) CONCRETE TO (N) AC PAVEMENT PER DETAIL 5 / 2C3.1
6. VERTICAL CURB PER DETAIL 2 / 2C3.2
7. PARKING BUMPER PER DETAIL 3 / 2C3.2
8. TRUNCATED DOMES PER DETAIL 4 / 2C3.2
9. CURB CUT RAMP PER DETAIL 1 / 2C3.2
10. SECTIONAL AT EXISTING BUILDING FOOTING PER DETAIL 12 / 2S-501
11. SECITONAL AT EXISTING POST FOOTING PER DETAIL 5 / 2S-501

10 0 10 20
(IN FEET)
1 inch = 10 ft.
GRAPHIC SCALE

LEGEND

AC PAVEMENT

PEDESTRIAN CONCRETE

SLURRY SEAL (E) ASPHALT PAVING
REFER TO SPEC SECTION 32 12 36

GRADING PLAN NOTES:

1. SAWCUT AND CONFORM TO (E) ASPHALT
2. CONFORM TO (E) CONCRETE AT NEAREST CONTROL JOINT
3. ADJUST UTILITY BOX / CLEAN OUT TO NEW FINISHED GRADE, TYP.

SLURRY SEAL OVERKOTE & CRACK FILL

EXISTING BUILDING A
43.50 F.F. ±

EXISTING BUILDING B2
41.53/43.50 F.F. ±

EXISTING BUILDING B1
43.54 F.F. ±

EXISTING BUILDING D2
41.53/43.54 F.F. ±

EXISTING BUILDING D1
43.50 F.F. ±

EXISTING MU BUILDING
43.64 F.F. ±

LIMITS OF GRADING

UNMARKED PVC IRRIGATION IN PLANTED AREAS

UNMARKED GAS IN AREA

25LF RAMP @ 8.3% MAX., S.A.D.

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Concord, CA 94520

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

DRAINAGE & GRADING PLAN

DRAWN BY: KOM JOB NUMBER: 23119.02 CEI #: 3052

SHEET NO.

2C2.1

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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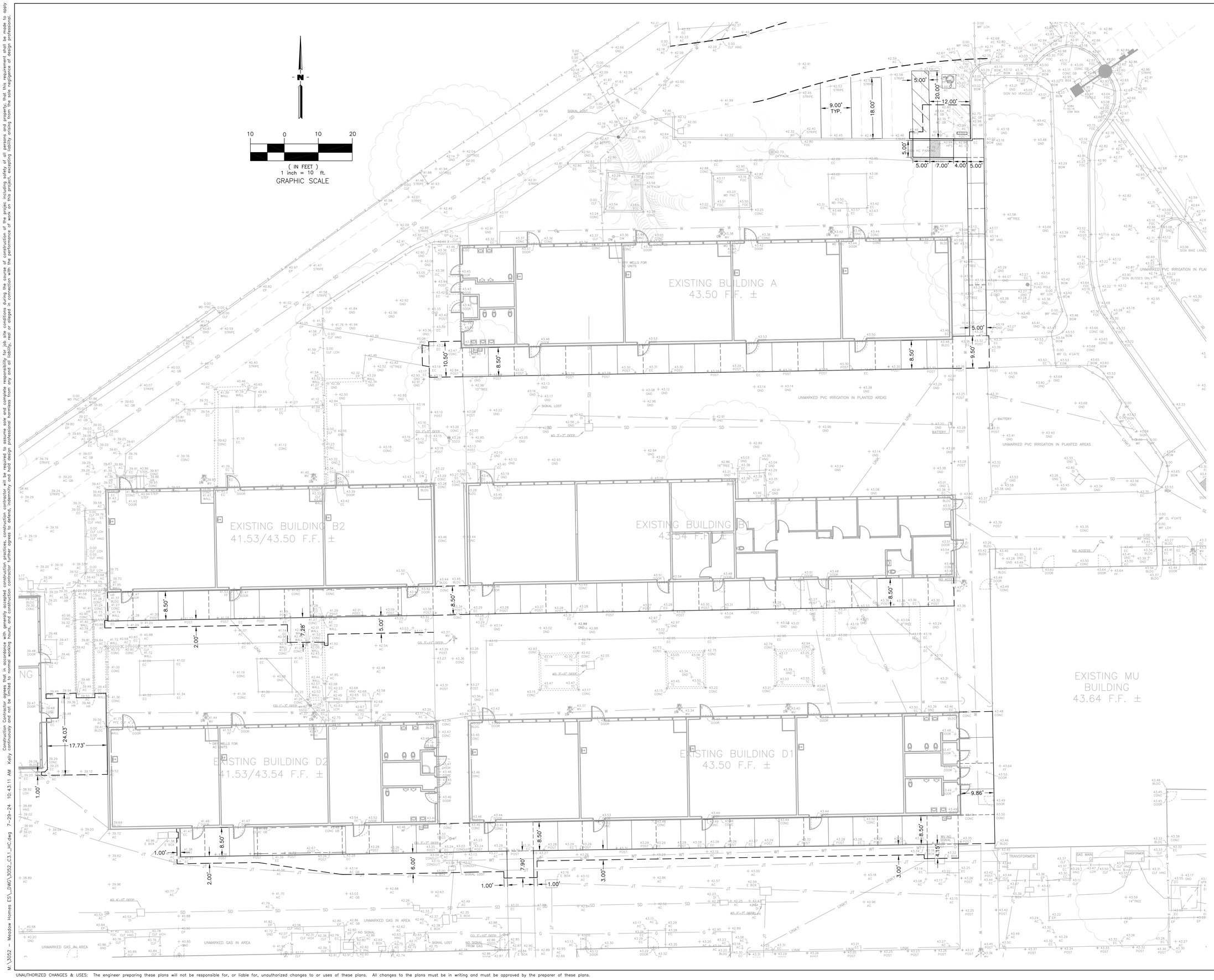

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Concord, CA 94520

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

HORIZONTAL CONTROL PLAN

DRAWN BY: KOM JOB NUMBER: 23119.02 CEI #: 3052

SHEET NO.

2C3.1

DATE: JULY 30, 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 Provisions
   c) AWWA standards and specifications;
   d) City of Concord 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 Concord 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 Concord 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 Concord Standard specifications.

14. Contractor shall provide appropriate traffic control measures as outlined in the City of Concord 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.

2. Not used.

3. Not used.

4. The Contractor shall notify the soils testing firm (hired by the district) during construction at least forty–eight (48) hours prior to commencement of any grading operations on–site.

5. A representative of the soils testing firm 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 testing firm 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 Concord 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 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 Concord 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 Concord 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

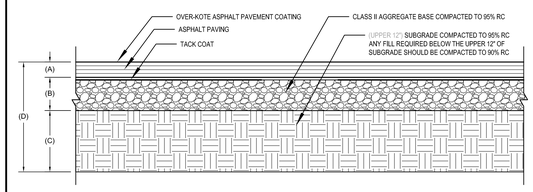
LEGEND

DESCRIPTION	PROPOSED	EXISTING
PROPERTY LINE		
CENTERLINE		
AC PAVEMENT		
PEDESTRIAN CONCRETE		
SLURRY SEAL		
CURB & GUTTER		
VERTICAL CURB		
ASPHALT EDGE /SAWCUT		
EXPANSION JOINT		
SCORE JOINT		
VALLEY GUTTER		
TRENCH DRAIN		
PERF PIPE		
RAINWATER LEADER		
STORM LINE		SD
SANITARY LINE		SS
WATER LINE		W
GAS LINE	G	
FENCE		X
ROLLING FENCE		
STORM DRAIN INLET		
END SECTION		
END SECTION MITERED DRAIN GRATE		
BOLLARD		
HYDRANT		
FDC		
PIV		
THRUST BLOCK		
SOV		
CHECK VALVE		
BACKFLOW		
LIGHTING POLE		
EV CHARGING STATION		
ELECTROLIER		
ELECTROLIER CONDUIT & CABLE W/PULL BOX		
DIRECTION & RATE OF SLOPE	0.015	
SWALE		
CONTOUR		

ABBREVIATIONS

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

SECTION	TRAFFIC CONDITION	(A) ASPHALTIC CONCRETE (INCHES)	(B) CLASS 2 AGGREGATE BASE	(C) TOTAL THICKNESS
1	AUTO PARKING (TI = 4.5)*	2.5"	8"	8.5"
1A	PEDESTRIAN TRAFFIC	2.5"	8"	10.5"



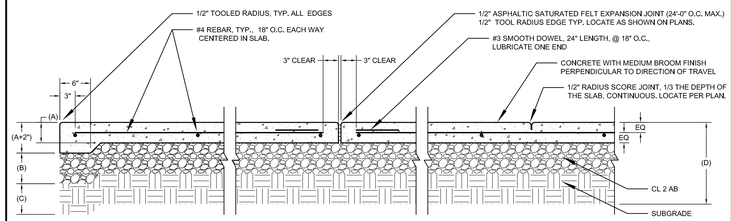
NOTES:

* GEOTECHNICAL ENGINEER TO VERIFY PAVEMENT SECTION THICKNESS BASED ON R-VALUE TESTING OF THE SUBGRADE SOILS DURING CONSTRUCTION.

1 AC PAVEMENT

SCALE: NTS

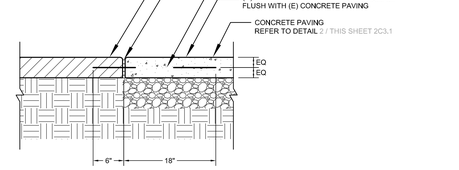
SECTION	(A) CONCRETE SLAB THICKNESS	(B) CL 2 BASE / COMPACTION	(C) UPPER 12" SUBGRADE COMPACTION	(D) TOTAL THICKNESS	ANY REQUIRED FILL BELOW UPPER 12" SUBGRADE COMPACTION
1A CONCRETE PAVING - PEDESTRIAN	4"	6" / 90% RC	90% RC	10"	90% RC



NOTES:
1. SCORE JOINTS SHALL BE PLACED A MAXIMUM OF 8'-0" O.C. REFER TO PLAN FOR EXACT LOCATIONS.
2. SCORE JOINTS TO BE 1/8" WIDE MAXIMUM, 1/2" RADIUS BOTH SIDES, SCORE DEPTH SHALL BE 1/3 OFCONCRETE PAVING DEPTH.
3. 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.
4. REFER TO SPECIFICATION SECTION 32 13 13 - CONCRETE WORK FOR CONCRETE MIX DESIGN CRITERIA

2 CONCRETE PAVING

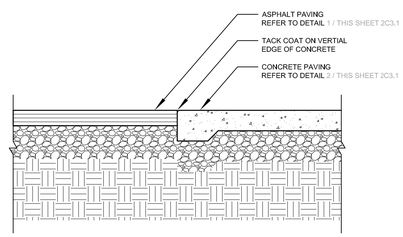
SCALE: NTS



NOTES:
1. REFER TO SPECIFICATION SECTION 32 13 13 - CONCRETE PAVING

3 (N) CONCRETE TO (E) CONCRETE

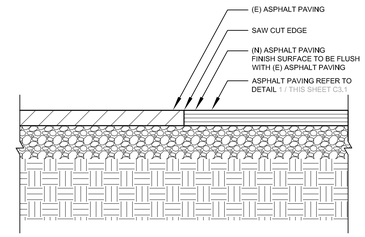
SCALE: NTS



NOTES:
1. CONCRETE AND ASPHALT SURFACES SHALL BE FLUSH.
2. ASPHALT & OVER-KOTE SURFACING SHALL BE REMOVED FROM CONCRETE SURFACE PRIOR TO COMPETION.

5 (N) CONCRETE TO (N) AC PAVEMENT

SCALE: NTS



4 (N) AC PAVEMENT TO (E) AC PAVEMENT

SCALE: NTS

AGENCY APPROVAL DSA# 01-121400

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Engineers and surveyors

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER MATTHEW PAUL MARTIN No. C 68770 Exp. 09/30/25 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
-	12-19-2023	DSA SUBMITTAL

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PROJECT OWNER & TITLE

MT. DIABLO UNIFIED SCHOOL DISTRICT
2326 Bisso Lane
Concord, CA 94520

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

NOTES, DETAILS, & LEGEND

DRAWN BY: KOM JOB NUMBER: 23119.02 CEI #: 3052

SHEET NO.

2C4.1

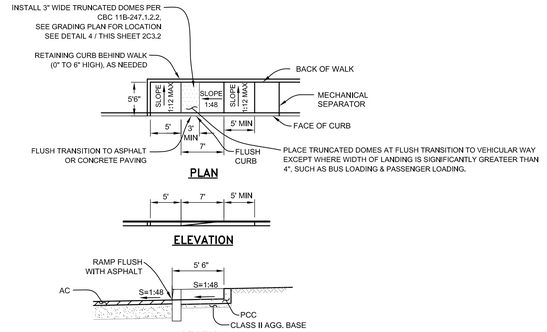
DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

M:\3052 – Meadow Homes ES_DWG\3052_C3.1_ND.dwg 7–29–24 10:48:41 AM Kelly

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, and 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.

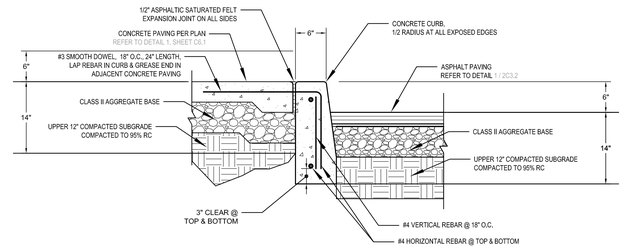


NOTES:

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)

1 CURB CUT RAMP

SCALE: NTS

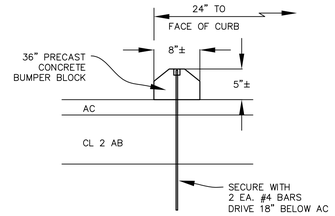


NOTES:

1. FOR TYPICAL CONCRETE REINFORCEMENT, BENDINGS & SPLICING REFER TO DETAIL 1 / THIS SHEET 2C3.2
2. TOP OF CURB TO SLOPE WITH ADJACENT PAVING
3. REFER TO SPECIFICATION SECTION 32 12 16 - ASPHALT PAVING
4. REFER TO SPECIFICATION SECTION 32 13 13 - CONCRETE PAVING

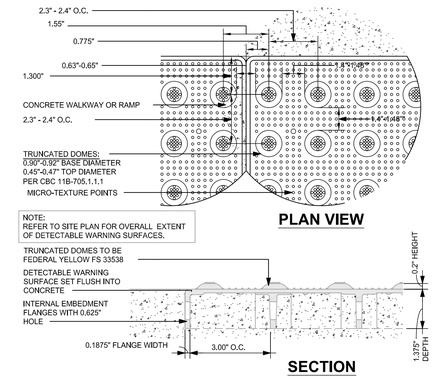
2 VERTICAL CURB

SCALE: NTS



3 PARKING BUMPER

SCALE: NTS



4 TRUNCATED DOME

SCALE: NTS

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M:\3052 – Meadow Homes ES_DWG\3052_C3.1_ND.dwg 7-29-24 10:48:59 AM Kelly

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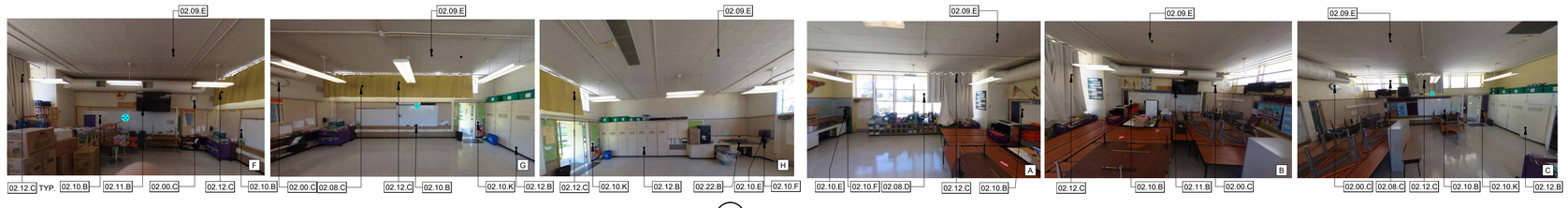
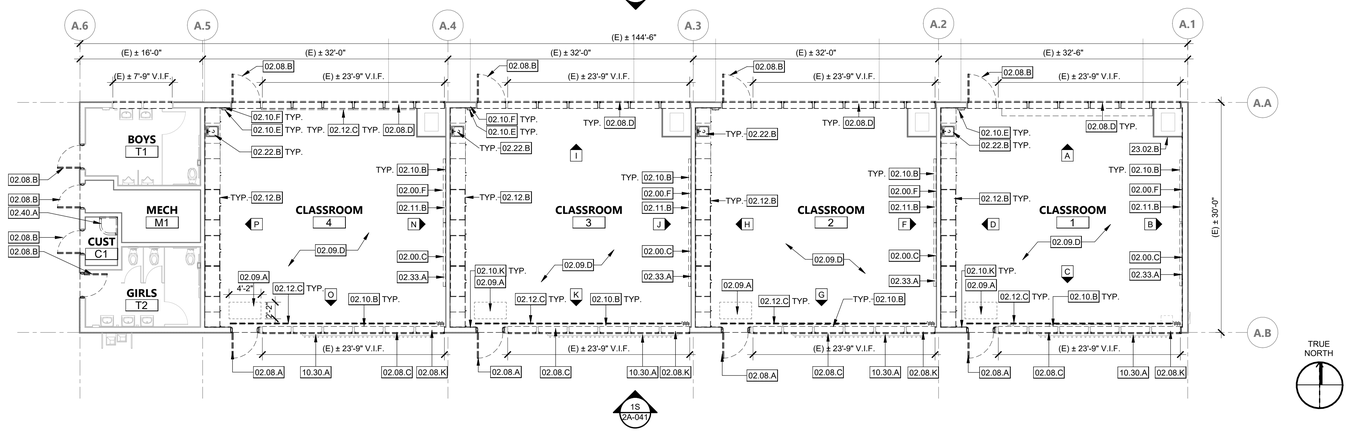
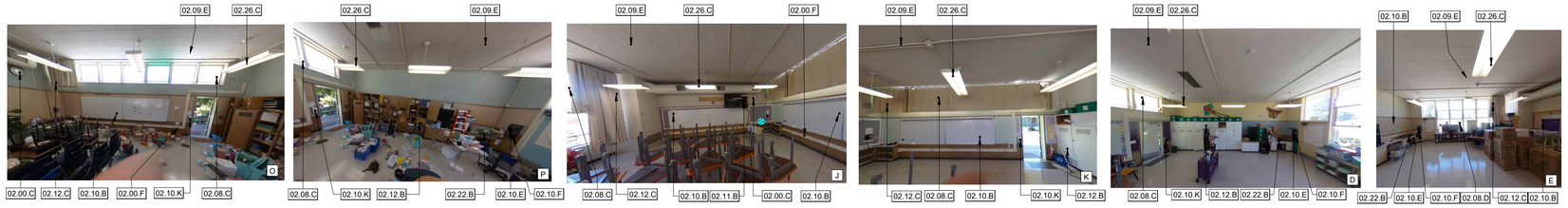






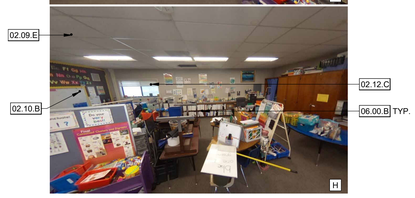
DEMO FLOOR PLAN - BUILDING A

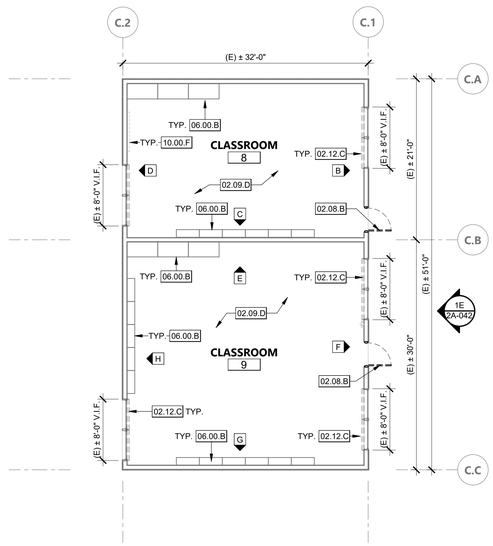
1/8" = 1'-0" | 1

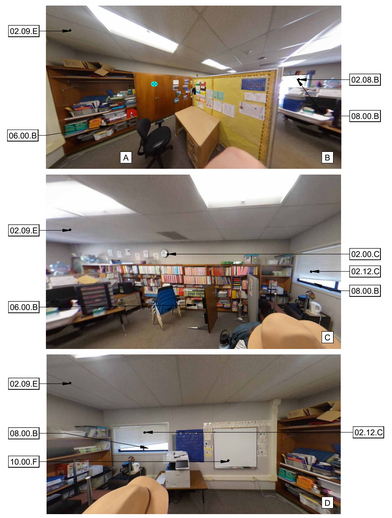












DEMO FLOOR PLAN - BUILDING C

1/8" = 1'-0" | 4

TRUE NORTH

KEYNOTES

02.00.C	(E) CLOCK TO BE REMOVED, PREPARE FOR NEW CLOCK TO BE INSTALLED. S.I.T.D.
02.00.F	(E) WIRE-MOLD TO BE REMOVED, S.T.D.
02.08.A	(E) DOOR, THRESHOLD AND ASSOCIATED HARDWARE TO BE DEMOLISHED. WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR. SALVAGE HARDWARE AND RETURN TO DISTRICT
02.08.B	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED. WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR. SALVAGE HARDWARE AND RETURN TO DISTRICT
02.08.C	(E) CLERESTORY WINDOW AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.08.K	(E) CLERESTORY WINDOW AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WALL INFILL.
02.09.A	(E) WALK OFF MAT TO BE DEMOLISHED. SEE DETAIL 22/2A-921 FOR DEMOLITION AND NEW WORK
02.09.D	(E) FLOORING AND WALL BASE TO BE DEMOLISHED. PREPARE FOR NEW FLOORING.
02.09.E	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED. PATCH, CLEAN SURFACE, AND SMOOTH OUT. PROTECT (E) SUBSTRATE FRAMING FOR ATTACHMENT OF NEW CEILING PANELS
02.10.B	(E) WHITEBOARDS AND TACKBOARDS TO BE DEMOLISHED
02.10.E	(E) PAPER TOWEL DISPENSER TO BE DEMOLISHED
02.10.F	(E) SOAP DISPENSER TO BE DEMOLISHED
02.10.K	(E) HAND SANITIZER DISPENSER TO BE REMOVED & REINSTALLED
02.11.B	REMOVE/SALVAGE (E) TV & BRACKET. RETURN TO DISTRICT.
02.12.B	(E) CABINETS, COUNTERTOPS, BACKSPLASH, BOOKSHELVES, AND RELATED ACCESSORIES TO BE DEMOLISHED
02.12.C	(E) WINDOW COVERINGS AND TRACK TO BE DEMOLISHED
02.22.B	(E) SINK TO BE DEMOLISHED AND PREPARE TO RECIEVE NEW SINK AND CABINET, S.P.D.
02.26.C	(E) LIGHT FIXTURES TO BE DEMOLISHED. PATCH AND PREPARE FOR NEW LIGHT FIXTURES.
02.33.A	(E) TACKABLE WALL PANEL AND WOOD TRIM TO BE DEMOLISHED, TYP. FOR ALL WALLS
02.40.A	(E) FLOOR SINK TO BE DEMOLISHED AND REPLACED. S.P.D.
06.00.B	(E) CASEWORK TO REMAIN. PROTECT IN PLACE.
08.00.B	(E) WINDOW TO REMAIN
10.00.F	(E) WHITEBOARDS TO REMAIN
10.30.A	(E) COAT HOOKS TO BE REMOVED AND REINSTALLED
23.02.B	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION

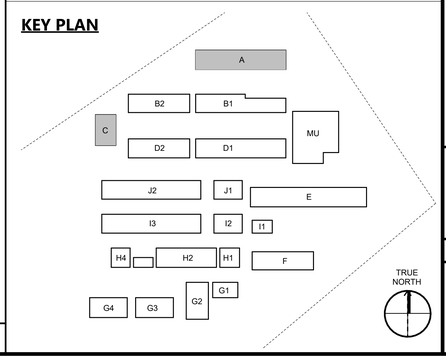
LEGEND - DEMOLITION

- (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
- X — 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.
2. SEE SPECIFICATION SECTION 02 41 19 FOR MORE DEMOLITION NOTES, REQUIREMENTS, AND PROCEDURES.
3. **REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY 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 MEADOW HOMES 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 A-911 PRIOR TO DEMOLITION OF PLASTER ASSEMBLIES

KEY PLAN



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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION

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MEADOW HOMES ES MODERNIZATION

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Concord, CA 94520

SHEET TITLE
DEMOLITION PLAN - BLDG A, C

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-021

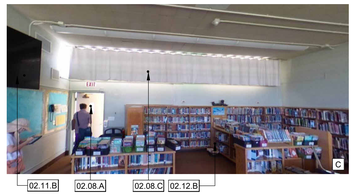
DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

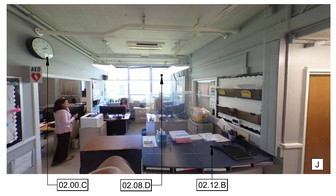
FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

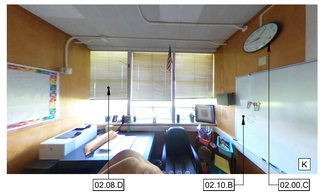
DATE PLOTTED: 7/30/2024 1:26:53 PM

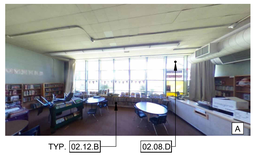






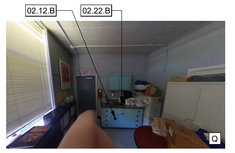




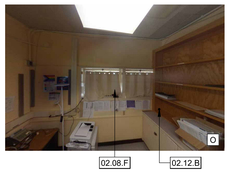




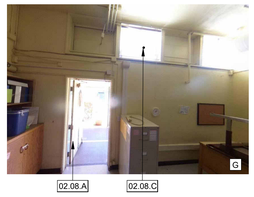


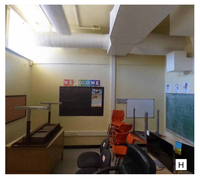








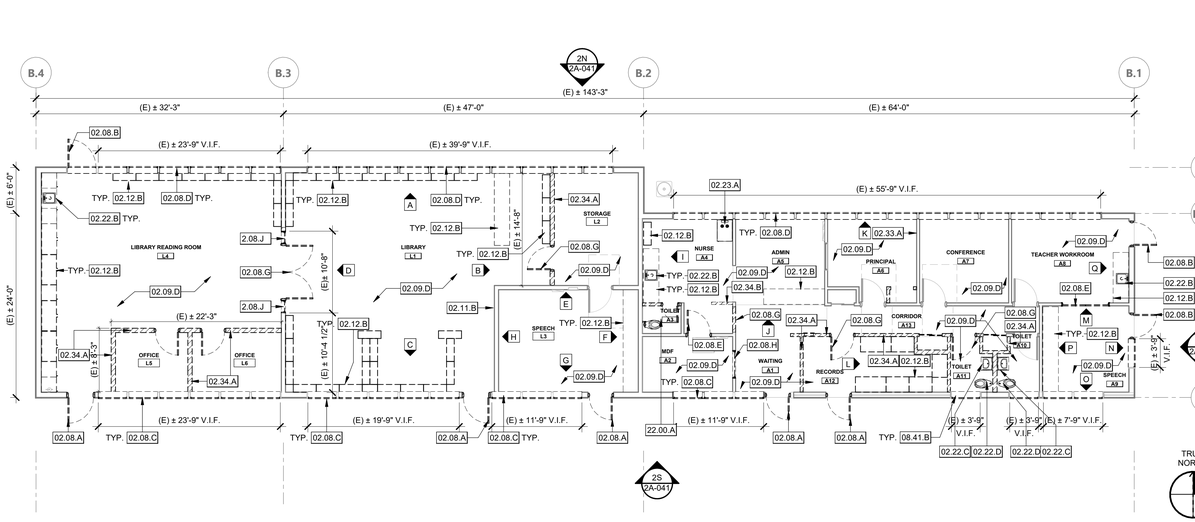






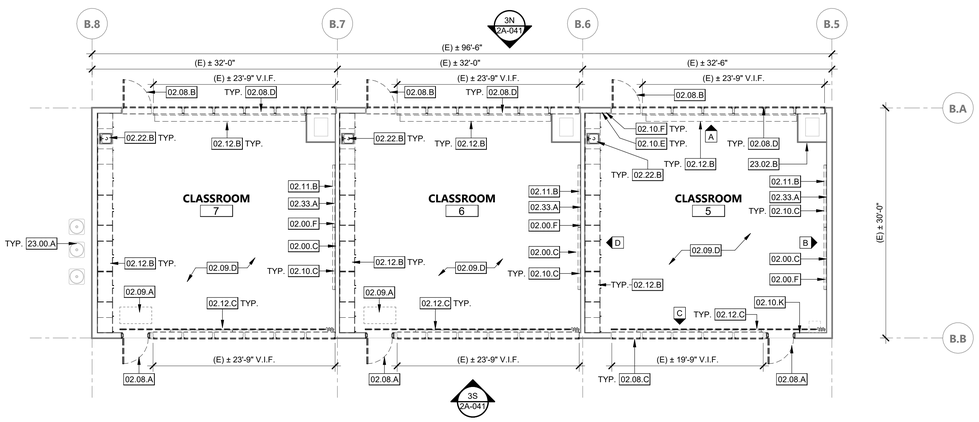


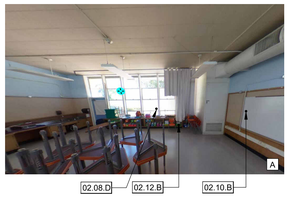


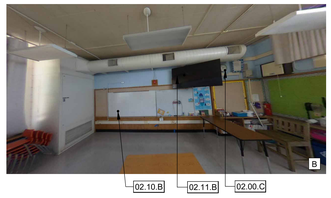


DEMO FLOOR PLAN - BUILDING B.1

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











TRUE NORTH

DEMO FLOOR PLAN - BUILDING B.2

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

KEYNOTES

02.00.C	(E) CLOCK TO BE REMOVED, PREPARE FOR NEW CLOCK TO BE INSTALLED. S.I.T.D.
02.00.F	(E) WIRE-MOLD TO BE REMOVED, S.T.D.
02.08.A	(E) DOOR, THRESHOLD AND ASSOCIATED HARDWARE TO BE DEMOLISHED. WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR. SALVAGE HARDWARE AND RETURN TO DISTRICT
02.08.B	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED. WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR. SALVAGE HARDWARE AND RETURN TO DISTRICT
02.08.C	(E) CLERESTORY WINDOW AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.08.E	(E) DOOR AND FRAME TO BE DEMOLISHED. INFILL OPENING.
02.08.F	(E) WINDOW AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.08.G	(E) DOOR AND FRAME TO BE DEMOLISHED
02.08.H	(E) WINDOW AND FRAME TO BE DEMOLISHED, INFILL WALL
2.08.J	(E) WINDOW AND FRAME TO BE DEMOLISHED
02.09.A	(E) WALK OFF MAT TO BE DEMOLISHED. SEE DETAIL 22/2A-921 FOR DEMOLITION AND NEW WORK
02.09.D	(E) FLOORING AND WALL BASE TO BE DEMOLISHED. PREPARE FOR NEW FLOORING.
02.10.B	(E) WHITEBOARDS AND TACKBOARDS TO BE DEMOLISHED
02.10.C	(E) WHITEBOARDS TO BE DEMOLISHED
02.10.E	(E) PAPER TOWEL DISPENSER TO BE DEMOLISHED
02.10.F	(E) SOAP DISPENSER TO BE DEMOLISHED
02.10.K	(E) HAND SANITIZER DISPENSER TO BE REMOVED & REINSTALLED
02.11.B	REMOVE/SALVAGE (E) TV & BRACKET. RETURN TO DISTRICT.
02.12.B	(E) CABINETS, COUNTERTOPS, BACKSPLASH, BOOKSHELVES, AND RELATED ACCESSORIES TO BE DEMOLISHED
02.12.C	(E) WINDOW COVERINGS AND TRACK TO BE DEMOLISHED
02.22.B	(E) SINK TO BE DEMOLISHED AND PREPARE TO RECIEVE NEW SINK AND CABINET, S.P.D.
02.22.C	(E) WALL MOUNTED SINK TO BE DEMOLISHED
02.22.D	(E) TOILET TO BE DEMOLISHED, S.P.D.
02.23.A	(E) MECHANICAL EQUIPMENT TO BE DEMOLISHED. SEE MECHANICAL DRAWINGS FOR MORE INFO
02.33.A	(E) TACKABLE WALL PANEL AND WOOD TRIM TO BE DEMOLISHED, TYP. FOR ALL WALLS
02.34.A	(E) PARTITION WALL TO BE DEMOLISHED
02.34.B	(E) PONY WALL TO BE DEMOLISHED
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
22.00.A	(E) PLUMBING FIXTURE TO REMAIN
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
23.02.B	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION

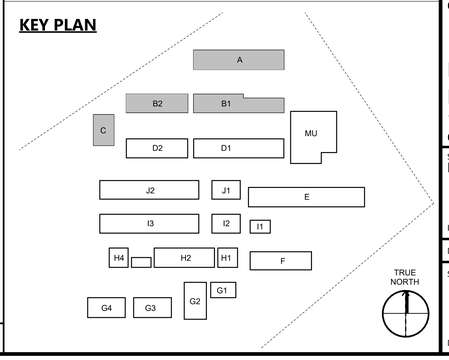
LEGEND - DEMOLITION

- (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
- X — 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.
2. SEE SPECIFICATION SECTION 02 41 19 FOR MORE DEMOLITION NOTES, REQUIREMENTS, AND PROCEDURES.
3. **REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY 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 MEADOW HOMES 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 A-911 PRIOR TO DEMOLITION OF PLASTER ASSEMBLIES

KEY PLAN



AGENCY APPROVAL DSA# 01-121400

196

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PROFESSIONAL STAMP

LICENSED ARCHITECT
MARIANA ALVAREZ PEÑA
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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
DEMOLITION PLAN - BLDG B

INCREMENT: INC.2

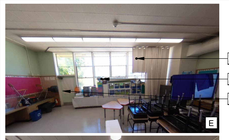
DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-022

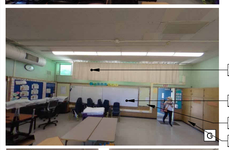
DATE: JULY 30, 2024

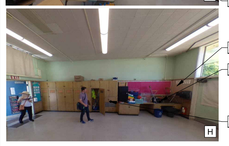
CONSTRUCTION DOCUMENTS

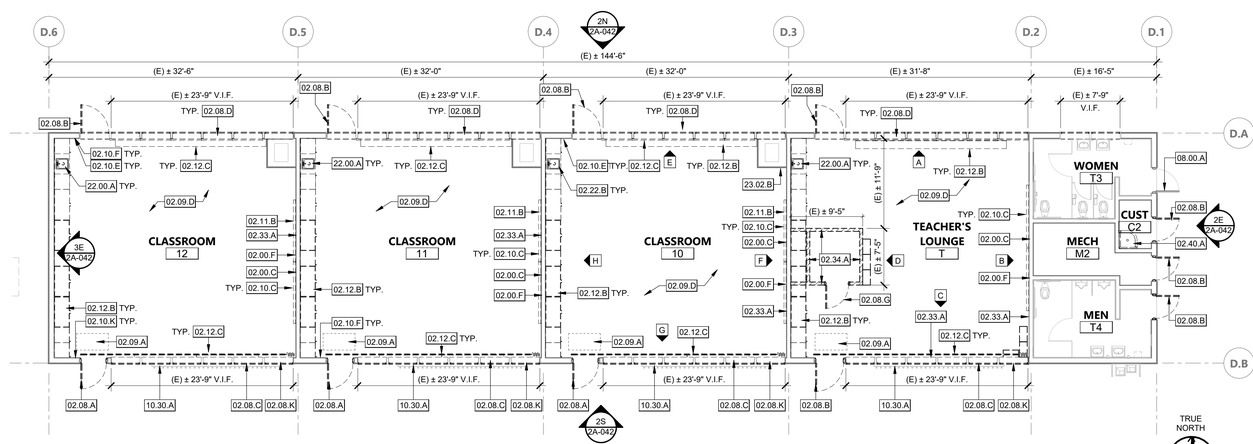
DATE PLOTTED: 7/30/2024 1:26:57 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDIUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt











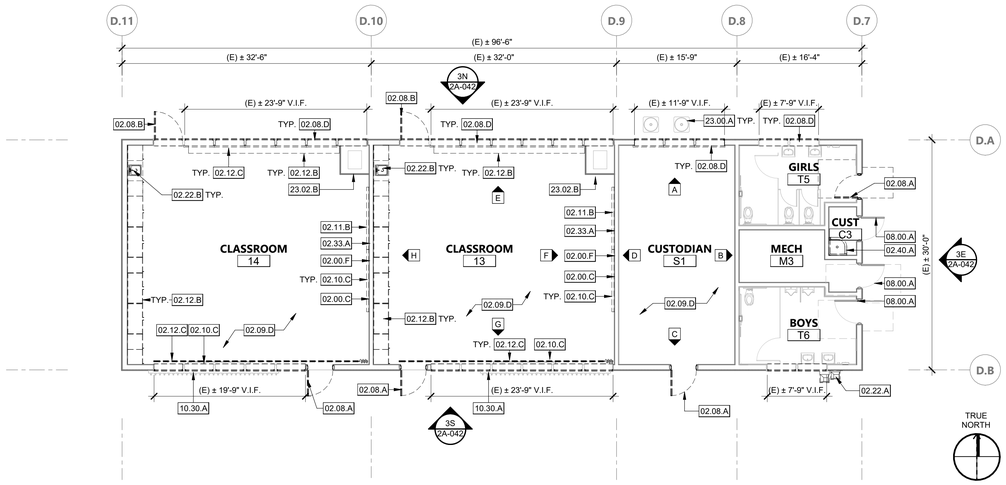


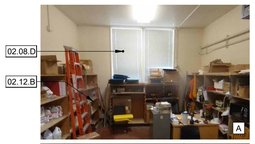






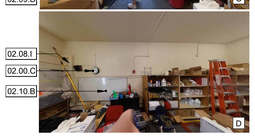
DEMO FLOOR PLAN - BUILDING D.1 | 1/8" = 1'-0" | 1



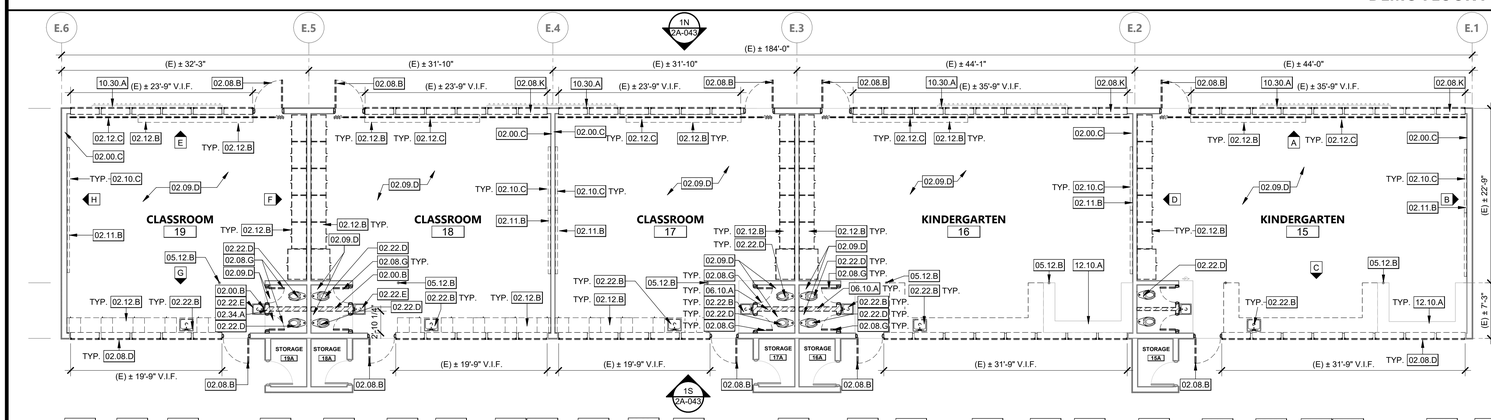




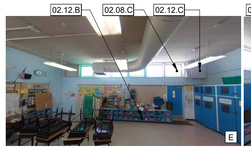


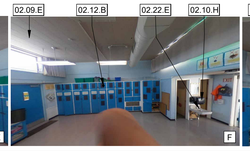


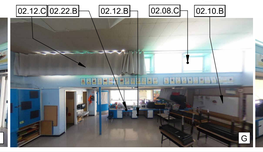
DEMO FLOOR PLAN - BUILDING D.2 | 1/8" = 1'-0" | 2

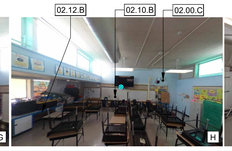




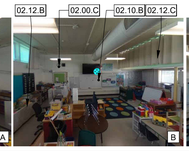


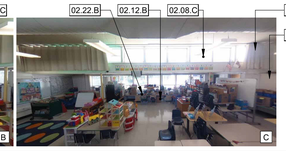














DEMO FLOOR PLAN - BUILDING E | 1/8" = 1'-0" | 3

KEYNOTES

02.00.B	(E) WOOD WALL PANEL AND TRIM TO BE DEMOLISHED
02.00.C	(E) CLOCK TO BE REMOVED, PREPARE FOR NEW CLOCK TO BE INSTALLED. S.IT.D.
02.00.F	(E) WIRE-MOLD TO BE REMOVED, S.T.D.
02.08.A	(E) DOOR, THRESHOLD AND ASSOCIATED HARDWARE TO BE DEMOLISHED. WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR. SALVAGE HARDWARE AND RETURN TO DISTRICT
02.08.B	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED. WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR. SALVAGE HARDWARE AND RETURN TO DISTRICT
02.08.C	(E) CLERESTORY WINDOW AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.08.G	(E) DOOR AND FRAME TO BE DEMOLISHED
02.08.I	(E) HVAC HOUSING AND DUCTWORK TO REMAIN IN PLACE AND BE PROTECTED DURING CONSTRUCTION. PAINT THROUGHOUT
02.08.K	(E) CLERESTORY WINDOW AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WALL INFILL
02.09.A	(E) WALK OFF MAT TO BE DEMOLISHED. SEE DETAIL 22/2A-921 FOR DEMOLITION AND NEW WORK
02.09.D	(E) FLOORING AND WALL BASE TO BE DEMOLISHED. PREPARE FOR NEW FLOORING.
02.09.E	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED. PATCH, CLEAN SURFACE, AND SMOOTH OUT. PROTECT (E) SUBSTRATE FRAMING FOR ATTACHMENT OF NEW CEILING PANELS
02.10.B	(E) WHITEBOARDS AND TACKBOARDS TO BE DEMOLISHED
02.10.C	(E) WHITEBOARDS TO BE DEMOLISHED
02.10.E	(E) PAPER TOWEL DISPENSER TO BE DEMOLISHED
02.10.F	(E) SOAP DISPENSER TO BE DEMOLISHED
02.10.H	(E) TOILET PAPER DISPENSER TO BE DEMOLISHED
02.10.K	(E) HAND SANITIZER DISPENSER TO BE REMOVED & REINSTALLED
02.11.B	REMOVE/SALVAGE (E) TV & BRACKET. RETURN TO DISTRICT.
02.12.B	(E) CABINETS, COUNTERTOPS, BACKSPLASH, BOOKSHELVES, AND RELATED ACCESSORIES TO BE DEMOLISHED
02.12.C	(E) WINDOW COVERINGS AND TRACK TO BE DEMOLISHED
02.22.A	EXISTING PLUMBING DEMOLITION
02.22.B	(E) SINK TO BE DEMOLISHED AND PREPARE TO RECIEVE NEW SINK AND CABINET, S.P.D.
02.22.D	(E) TOILET TO BE DEMOLISHED, S.P.D.
02.22.E	(E) SINK TO BE DEMOLISHED, S.P.D.
02.33.A	(E) TACKABLE WALL PANEL AND WOOD TRIM TO BE DEMOLISHED, TYP. FOR ALL WALLS
02.34.A	(E) PARTITION WALL TO BE DEMOLISHED
02.40.A	(E) FLOOR SINK TO BE DEMOLISHED AND REPLACED. S.P.D.
05.12.B	STEEL COLUMN TO REMAIN
06.10.A	WOOD STUD WALL PER STRUCTURAL DRAWINGS
08.00.A	(E) DOOR TO REMAIN
10.30.A	(E) COAT HOOKS TO BE REMOVED AND REINSTALLED
12.10.A	(E) FRAMING TO REMAIN. FINISH TO BE REMOVED AND REPLACED WITH INK & STAIN RESISTANT VINYL.
22.00.A	(E) PLUMBING FIXTURE TO REMAIN
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
23.02.B	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION

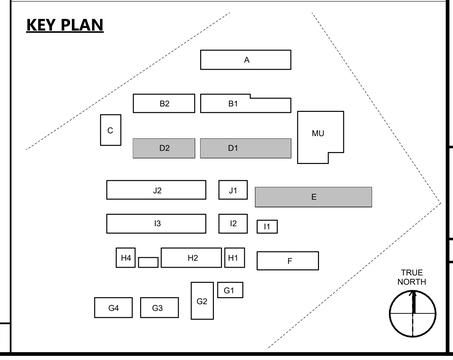
LEGEND - DEMOLITION

- (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
- X — 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.
2. SEE SPECIFICATION SECTION 02 41 19 FOR MORE DEMOLITION NOTES, REQUIREMENTS, AND PROCEDURES.
3. **REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY 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 MEADOW HOMES ELEMENTARY SHOOL PROVIDED BY ENCINO-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 A-911 PRIOR TO DEMOLITION OF PLASTER ASSEMBLIES

KEY PLAN



AGENCY APPROVAL DSA# 01-121400

196

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PROFESSIONAL STAMP

LICENSED ARCHITECT · MARINA ALVAREZ FARGA · 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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
DEMOLITION PLAN - BLDG D, E

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.

2A-023

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

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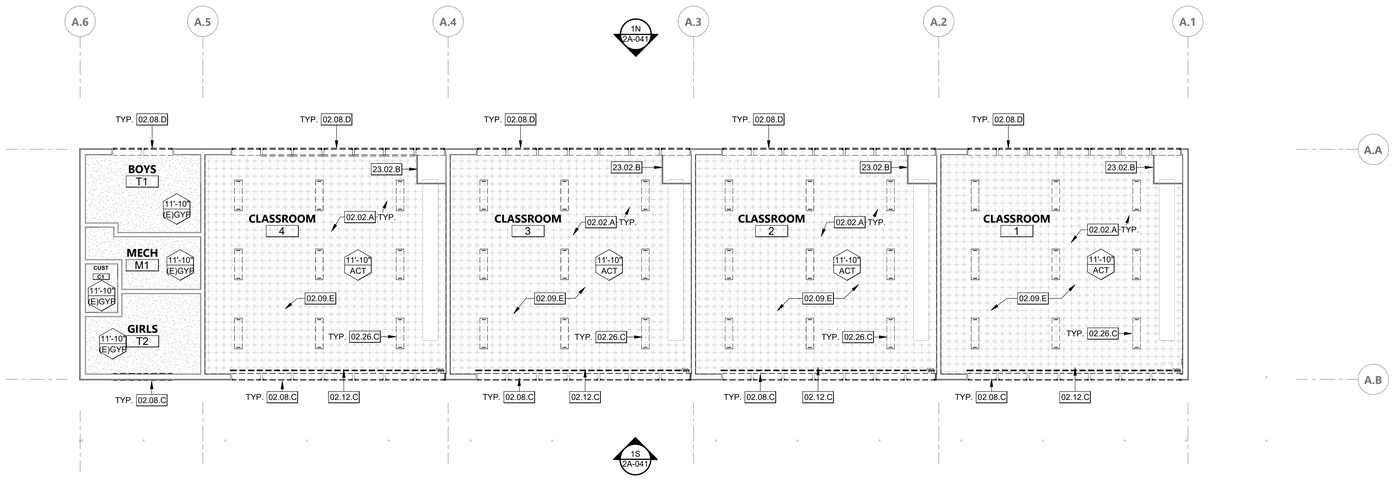

TRUE NORTH

DEMO CEILING PLAN - BUILDING A | 1/8" = 1'-0" | 1

TRUE NORTH

DEMO CEILING PLAN - BUILDING B.1 | 1/8" = 1'-0" | 2

TRUE NORTH

DEMO CEILING PLAN - BUILDING B.2 | 1/8" = 1'-0" | 3

KEYNOTES

02.02.A	(E) SURFACE MOUNTED ELECTRICAL RACEWAYS TO BE DEMOLISHED, S.E.D.
02.08.C	(E) CLERESTORY WINDOW AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.09.E	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED. PATCH, CLEAN SURFACE, AND SMOOTH OUT. PROTECT (E) SUBSTRATE FRAMING FOR ATTACHMENT OF NEW CEILING PANELS
02.12.C	(E) WINDOW COVERINGS AND TRACK TO BE DEMOLISHED
02.26.C	(E) LIGHT FIXTURES TO BE DEMOLISHED. PATCH AND PREPARE FOR NEW LIGHT FIXTURES.
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
23.02.B	(E) HVAC HOUSING AND DUCTWORK TO REMAIN 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.

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

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

KEY PLAN

AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP

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

REVISIONS

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1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
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SHEET TITLE
DEMO REFLECTED CEILING PLAN - BLDG A, B

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-031

DATE: JULY 30, 2024

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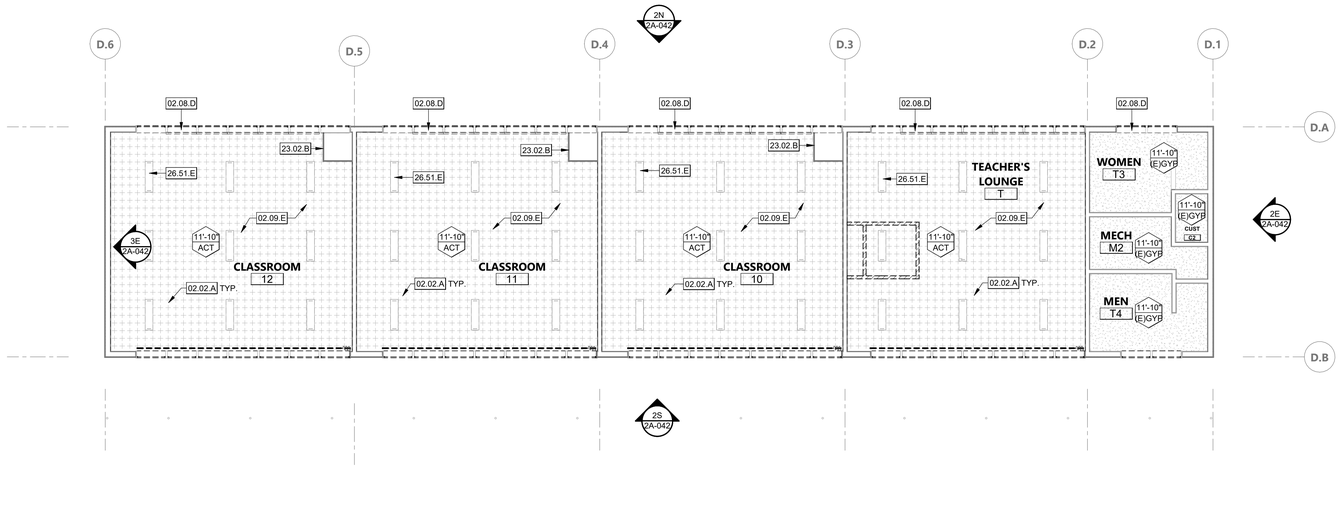
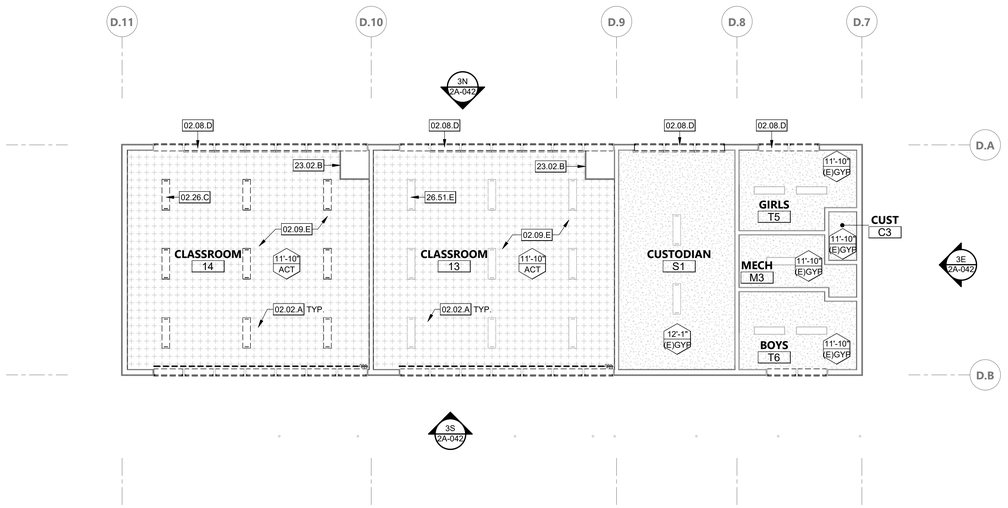


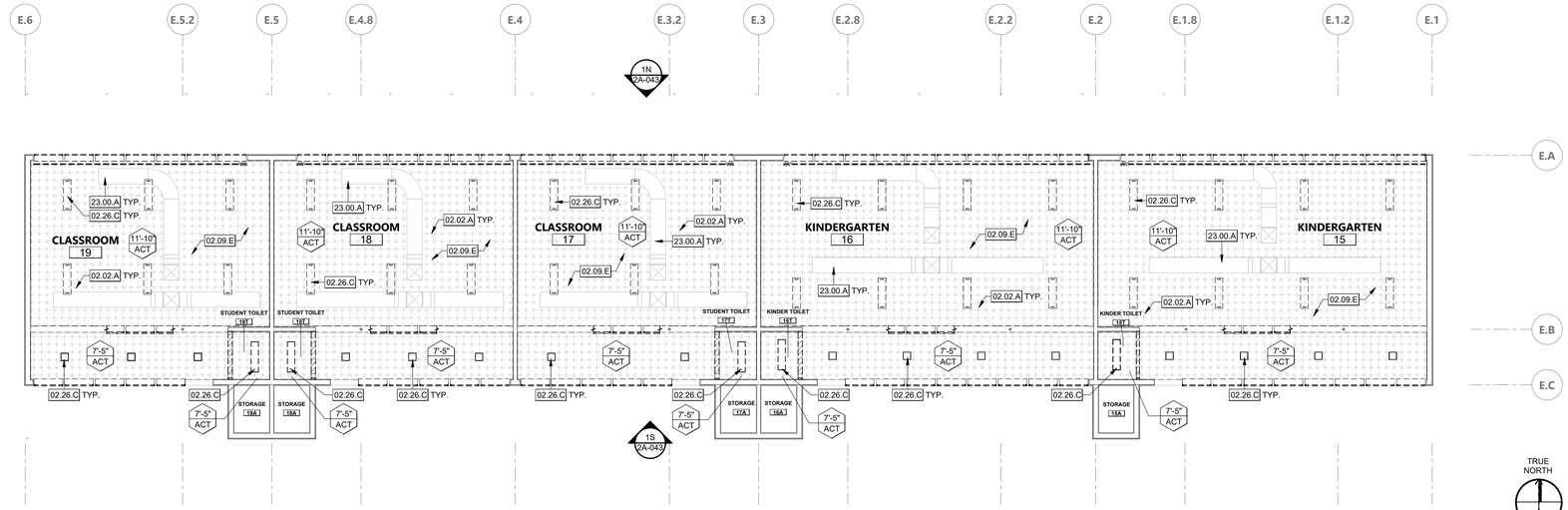
TRUE NORTH

DEMO CEILING PLAN - BUILDING D.1 | 1/8" = 1'-0" | 1



TRUE NORTH

DEMO CEILING PLAN - BUILDING D.2 | 1/8" = 1'-0" | 2



TRUE NORTH

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

KEYNOTES

02.02.A	(E) SURFACE MOUNTED ELECTRICAL RACEWAYS TO BE DEMOLISHED, S.E.D.
02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.09.E	(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.C	(E) LIGHT FIXTURES TO BE DEMOLISHED. PATCH AND PREPARE FOR NEW LIGHT FIXTURES.
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
23.02.B	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION
26.51.E	(E) PENDANT LIGHTS, REMOVE AND STORE, FOR REINSTALLATION AFTER CEILING WORK COMPLETED

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.

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

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

KEY PLAN

TRUE NORTH

AGENCY APPROVAL DSA# 01-121400

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MEADOW HOMES ES MODERNIZATION

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SHEET TITLE
DEMO REFLECTED CEILING PLAN - BLDG D, E

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-032

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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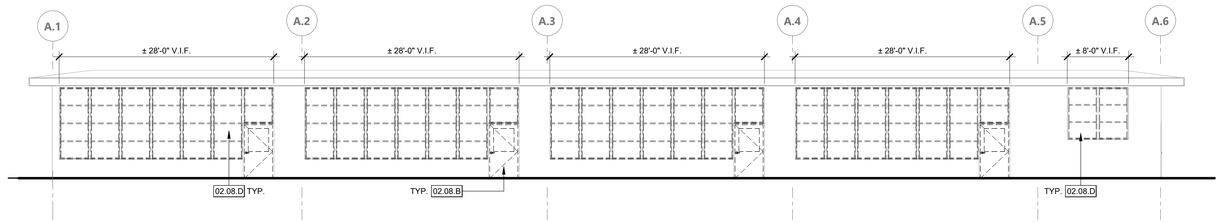

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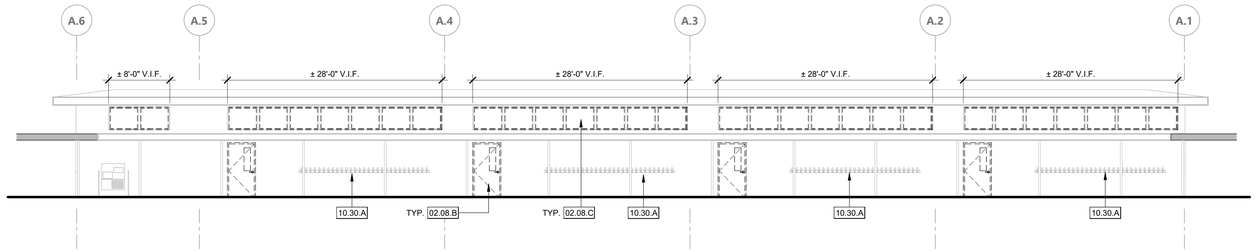
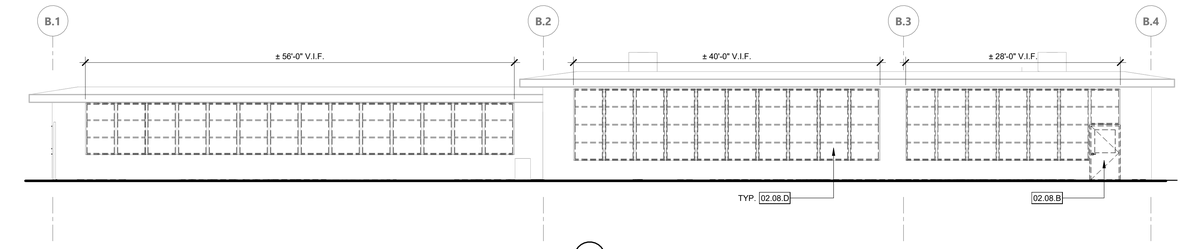


1S

DEMO ELEVATIONS - BUILDING A

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



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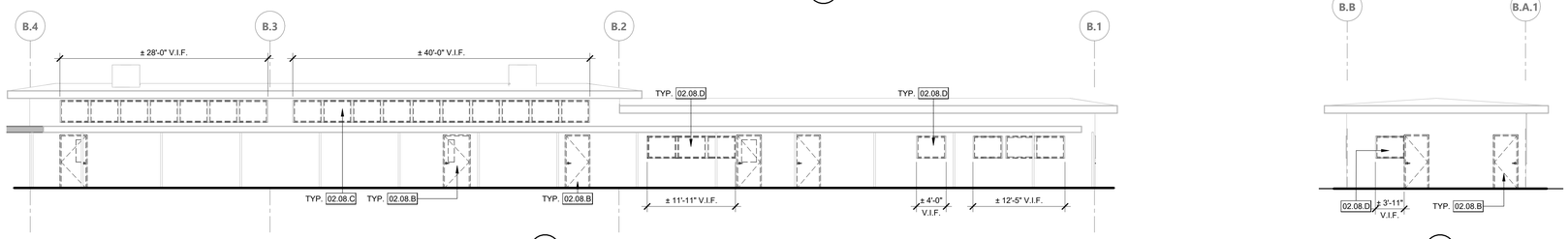
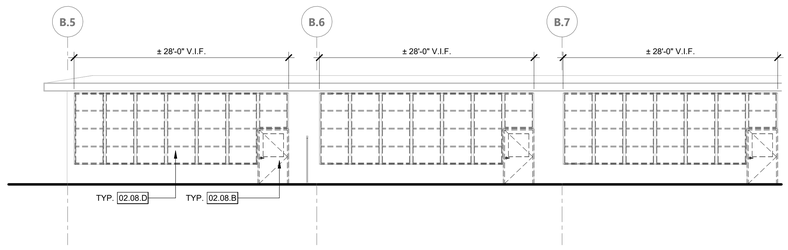


2S

2E

DEMO ELEVATIONS - BUILDING B.1

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



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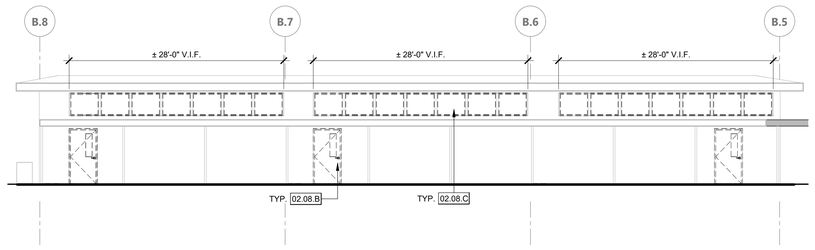

3S

DEMO ELEVATIONS - BUILDING B.2

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

KEYNOTES

02.08.B	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED. WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR. SALVAGE HARDWARE AND RETURN TO DISTRICT
02.08.C	(E) CLERESTORY WINDOW AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
10.30.A	(E) COAT HOOKS TO BE REMOVED AND REINSTALLED

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 AND TECHNOLOGY 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.
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15. SEE ASBESTOS & LEAD IN PAINT SURVEY REPORT FOR MEADOW HOMES 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.
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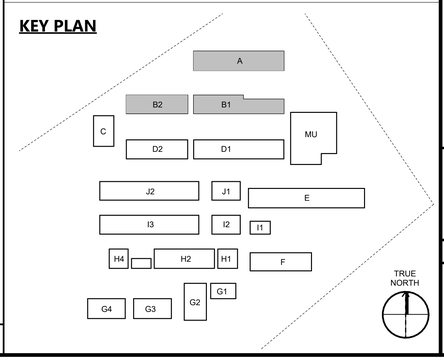
18. SEE PLASTER DEMOLITION & REPAIR NOTES ON A-911 PRIOR TO DEMOLITION OF PLASTER ASSEMBLIES

KEY PLAN



AGENCY APPROVAL DSA# 01-121400

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SHEET TITLE

DEMO EXTERIOR ELEVATIONS - BLDG A, B1, B2

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.

2A-041

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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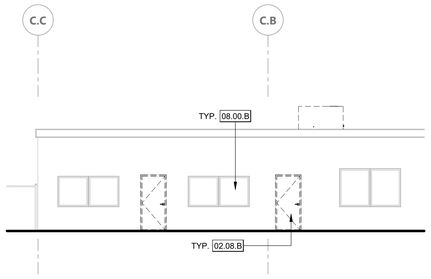
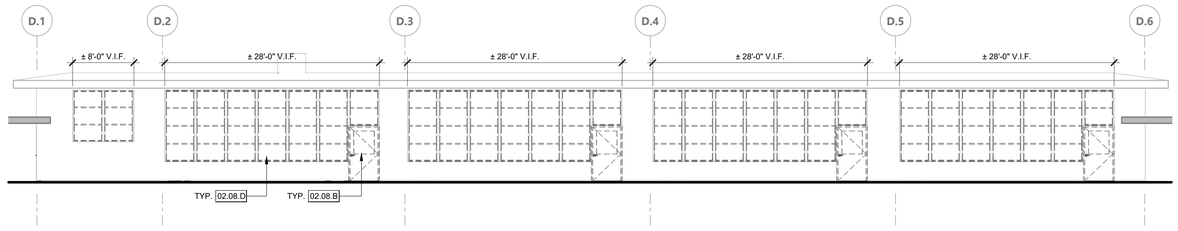


1E

DEMO ELEVATIONS - BUILDING C

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



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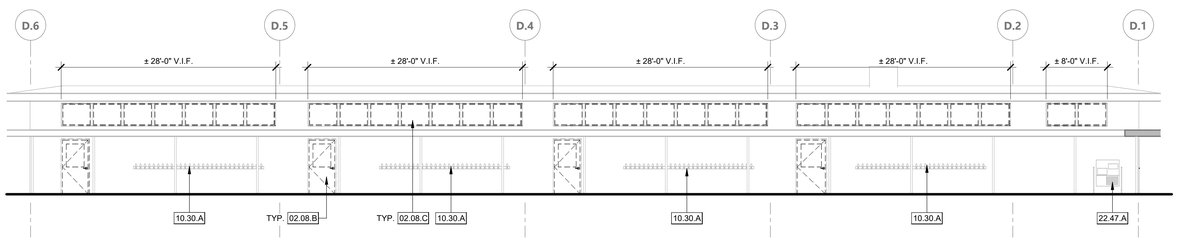

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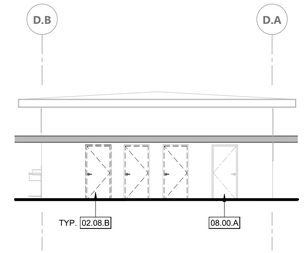
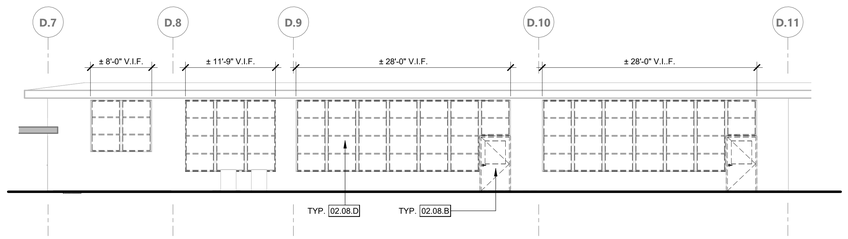


2E

DEMO ELEVATIONS - BUILDING D.1

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



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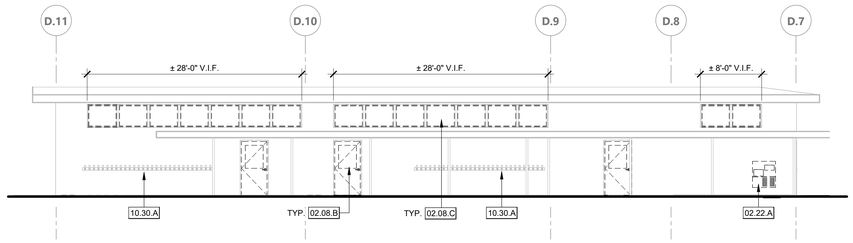

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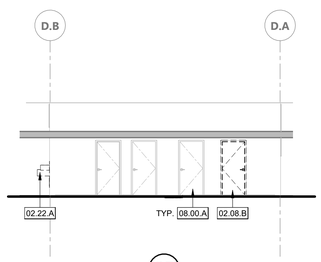

3E

DEMO ELEVATIONS - BUILDING D.2

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

KEYNOTES

02.08.B	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED. WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR. SALVAGE HARDWARE AND RETURN TO DISTRICT
02.08.C	(E) CLERESTORY WINDOW AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.22.A	EXISTING PLUMBING DEMOLITION
08.00.A	(E) DOOR TO REMAIN
08.00.B	(E) WINDOW TO REMAIN
10.30.A	(E) COAT HOOKS TO BE REMOVED AND REINSTALLED
22.47.A	(E) HI-LOW DRINKING FOUNTAIN TO REMAIN

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 AND TECHNOLOGY 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 MEADOW HOMES 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.
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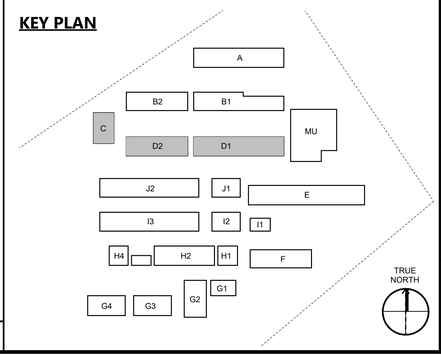
18. SEE PLASTER DEMOLITION & REPAIR NOTES ON A-911 PRIOR TO DEMOLITION OF PLASTER ASSEMBLIES

KEY PLAN



AGENCY APPROVAL DSA# 01-121400

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REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

DEMO EXTERIOR ELEVATIONS - BLDG C, D1, D2

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.

2A-042

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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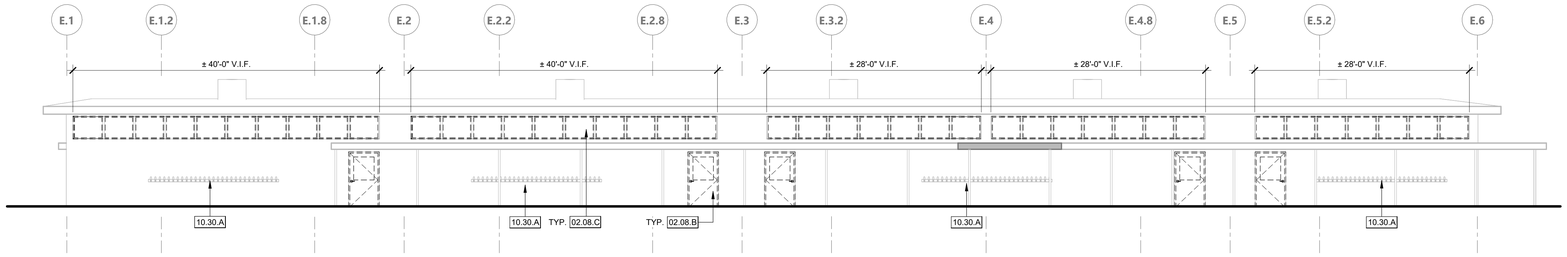

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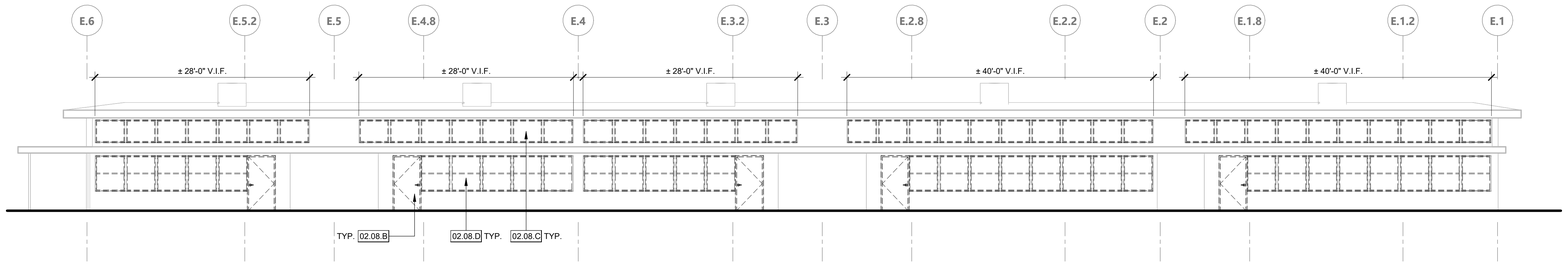

1S

DEMO ELEVATIONS - BUILDING E | 1/8" = 1'-0" | 1

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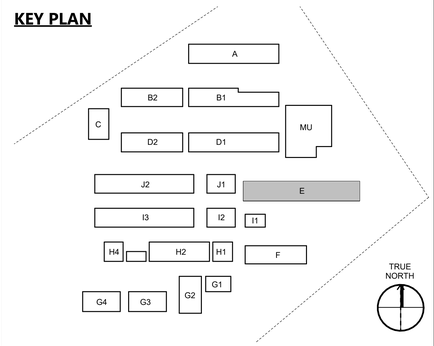

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SHEET TITLE
DEMO EXTERIOR ELEVATIONS - BLDG E

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-043

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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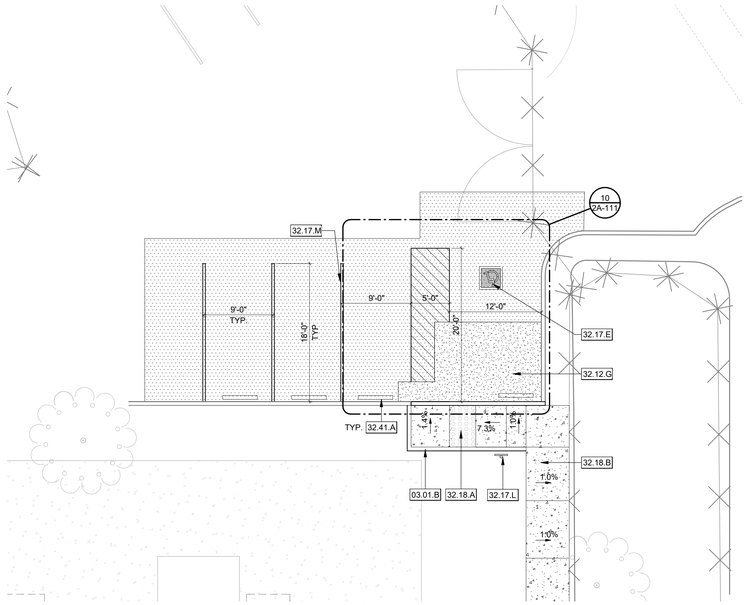


ENLARGED PARKING PLAN | 1/8" = 1'-0" | **1**

KEYNOTES

03.01.B	(N) CONCRETE CURB, S.C.D.
32.12.G	(N) ASPHALT PAVING S.C.D.
32.17.E	36" X 36" INTERNATIONAL SYMBOL OF ACCESSIBILITY
32.17.L	(N) VAN ACCESSIBLE PARKING STALL AND SIGNAGE
32.17.M	(N) PARKING STALLS STRIPING. TYP
32.18.A	TRUNCATED DOMES, SEE DETAIL 4/2C3.2
32.18.B	CONCRETE PAVING PER DETAIL 1/2C3.1
32.41.A	PARKING BUMPER, SEE DETAIL 3/2C3.2

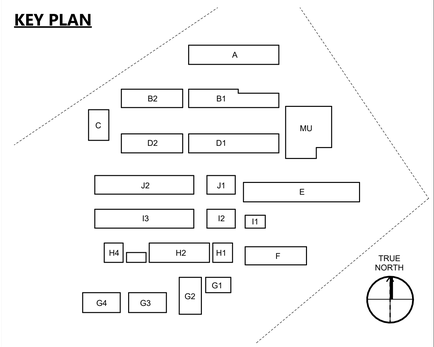
LEGEND - CODE SITE GENERAL NOTES

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: 180+54+136+181+113+249+262= 1175x5= 5875 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.

LEGEND - ENLARGED SITE PLAN

- (N) CONCRETE PAVING
- EXPANSION JOINT
- CONTROL JOINT
- (E) LANDSCAPING
- (N) CONCRETE PAVING PER CIVIL DRAWINGS
- (N) AC PAVEMENT PER CIVIL DRAWINGS
- X——X——X——X (E) FENCE LINE
- SLURRY SEAL OVER (E) ASPHALT PER CIVIL DRAWINGS

KEY PLAN



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INCREMENT: INC.2

DRAWN BY: Author JOB NUMBER: 23119.01

SHEET NO.

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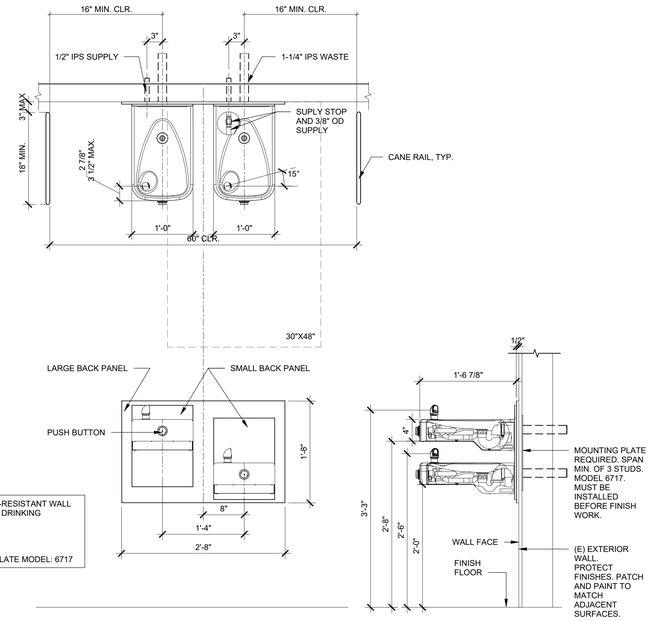
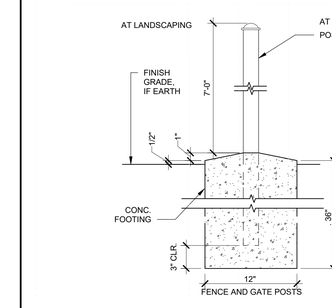


HAWS® ADA VANDAL-RESISTANT WALL MOUNT ADJUSTABLE DRINKING FOUNTAIN

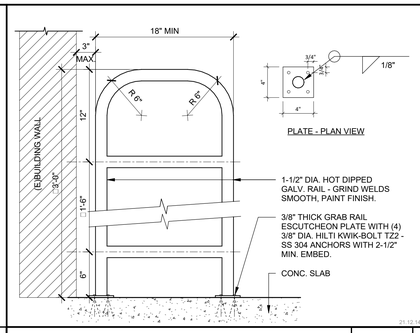
MODEL 1117L

HAWS® MOUNTING PLATE MODEL: 6717

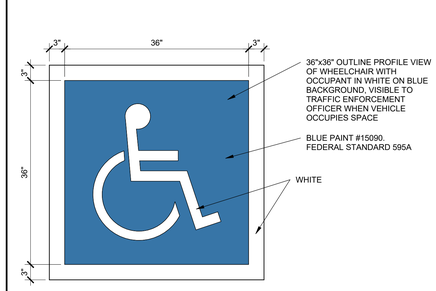
WALL MOUNTED DRINKING FOUNTAIN | 1" = 1'-0" | **2**



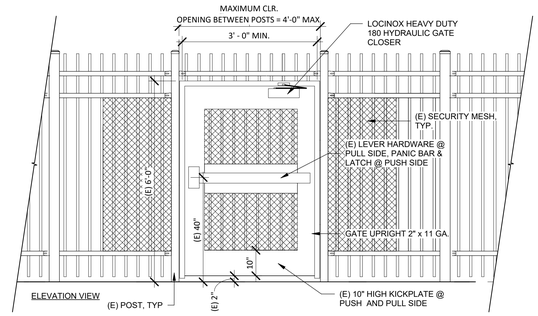
POST FOOTING | N.T.S. | **13**



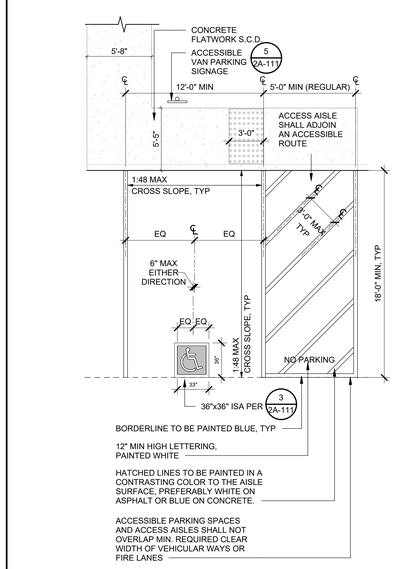
DRINKING FOUNTAIN (N) GRAB RAIL | 1 1/2" = 1'-0" | **8**



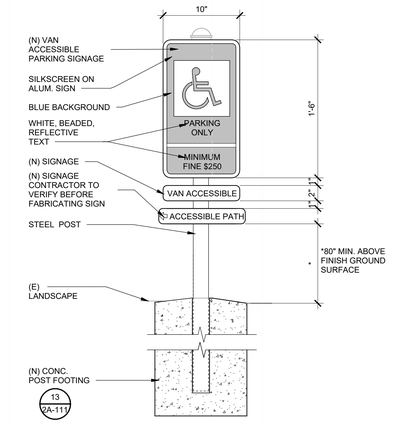
ACCESSIBLE PARKING SYMBOL | 1" = 1'-0" | **3**



EXISTING ORNAMENTAL GATE (FOR REFERENCE ONLY) | 1/2" = 1'-0" | **15**



ADA PARKING | 3/16" = 1'-0" | **10**



ACC. PARKING LOT SIGNAGE | 1 1/2" = 1'-0" | **5**

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LICENSED ARCHITECT
MARIANA ALVAREZ PARGA
C-36107
REN. 01-31-25
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REVISIONS

NO.	DATE	DESCRIPTION
2		FOR PLAN CHECK ONLY, PER DSA IR_A-19

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

SITE DETAILS

INC.2

DRAWN BY: MEP JOB NUMBER: 23119.01

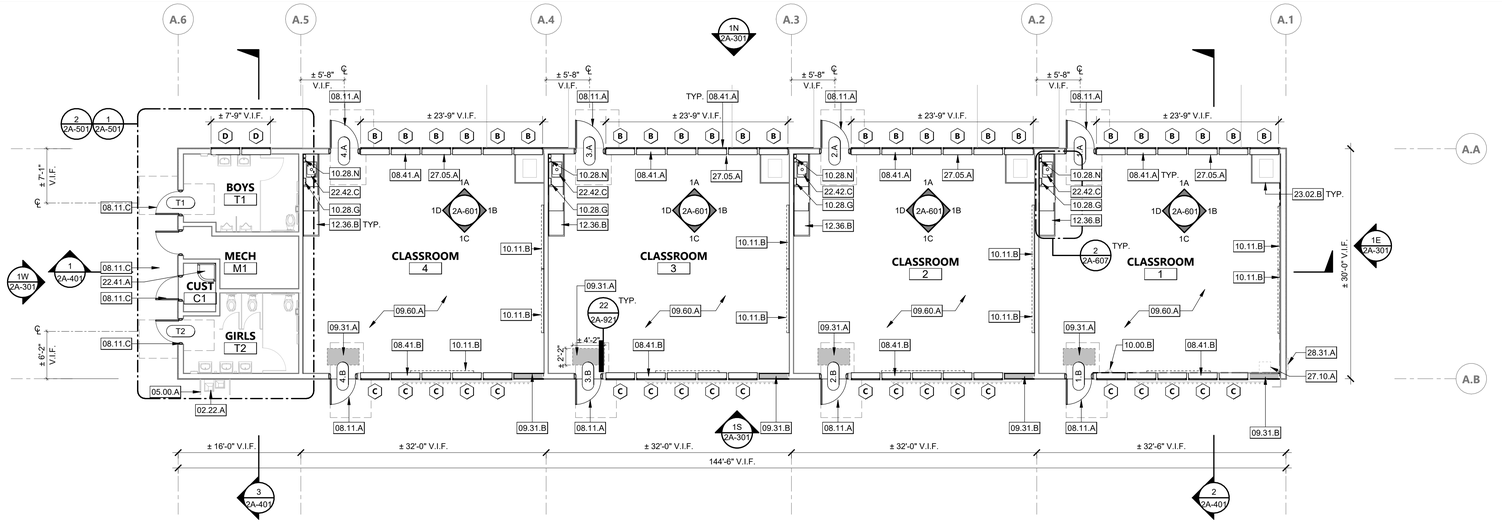
SHEET NO.

2A-111

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

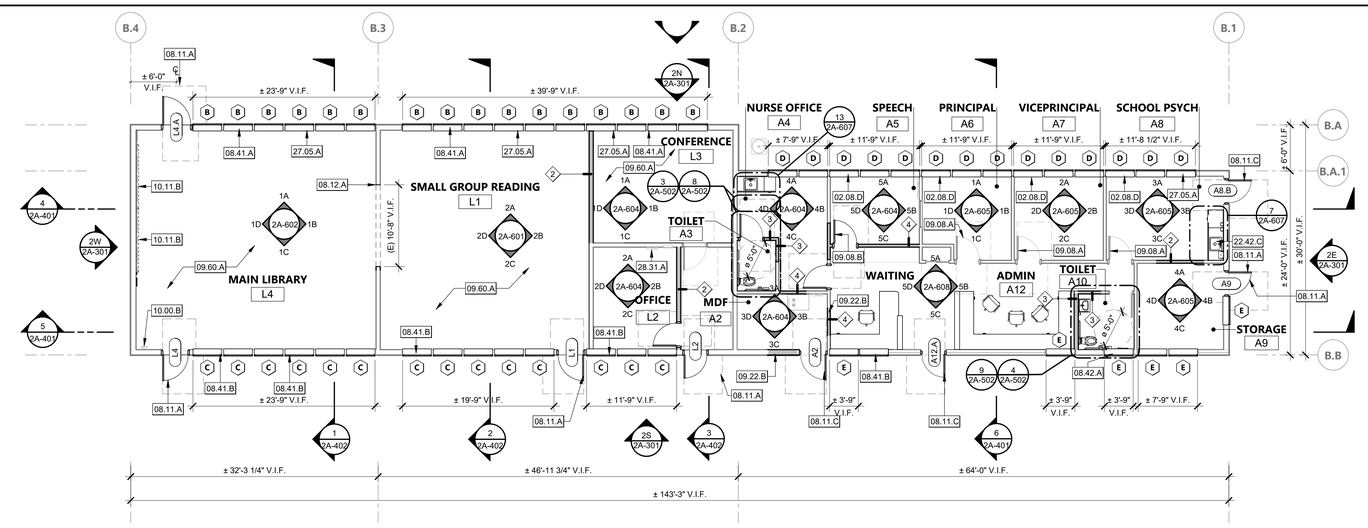
DATE PLOTTED: 7/30/2024 1:27:24 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt



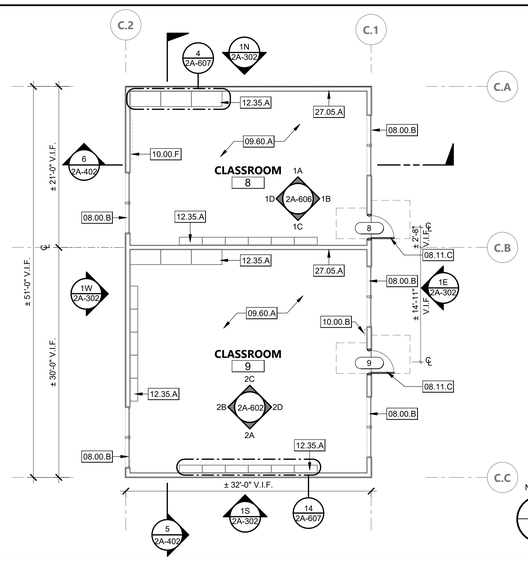
KEYNOTES

02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
02.22.A	EXISTING PLUMBING DEMOLITION
05.00.A	(E) METAL HANDRAIL TO REMAIN
08.00.B	(E) WINDOW TO REMAIN
08.11.A	(N) EXTERIOR FRP FLUSH DOOR WITH HALF NARROW LITE INSTALLED IN (E) WOOD OR HOLLOW METAL FRAME. PATCH (E) FRAME IF NEEDED
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
08.12.A	NEW FRAME TO BE ADDED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
08.42.A	ALUMINUM CLERESTORY WINDOW, FROSTED
09.08.A	(E) DOOR TO BE PAINTED. SEE FINISH PLAN
09.08.B	(N) DOOR TO BE PAINTED. SEE FINISH PLAN
09.22.B	(N) INFILL WALL AND PATCH TO MATCH EXISTING
09.31.A	(N) CONCRETE INFILL AT DEMOLISHED WALKOFF MAT. SEE DETAIL 22/2A-921
09.31.B	(N) WALL INFILL AT (E) WINDOW OPENING. COORDINATE WALL FRAMING WITH (N) 2" CONDUIT PENETRATION PER TECHNOLOGY DRAWINGS.
09.60.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
10.00.B	(E) FIRE EXTINGUISHER TO BE REMOVED/PROTECTED AND REINSTALLED. SEE INTERIOR ELEVATIONS FOR LOCATION.
10.00.F	(E) WHITEBOARDS TO REMAIN
10.11.B	WALL MOUNTED 4'x8' WHITEBOARDS, SEE DETAIL
10.28.G	(E) PAPER TOWEL DISPENSER TO REMAIN
10.28.N	SURFACE MOUNT SOAP DISPENSER
12.35.A	NEW PLAM CASEWORK
12.36.B	PLASTIC LAMINATED COUNTERTOP. 6" BACKSPLASH, TYP.
22.41.A	JANITORIAL FLOOR MOP SINK
22.42.C	ACCESSIBLE SINK, S.MP.D.
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
23.02.B	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION
27.05.A	(N) SURFACE RACEWAY. S.T.D.
27.10.A	(N) IDF RACK PER TECHNOLOGY SHEETS
28.31.A	ELECTRICAL PANELS. REFER TO ELECTRICAL.

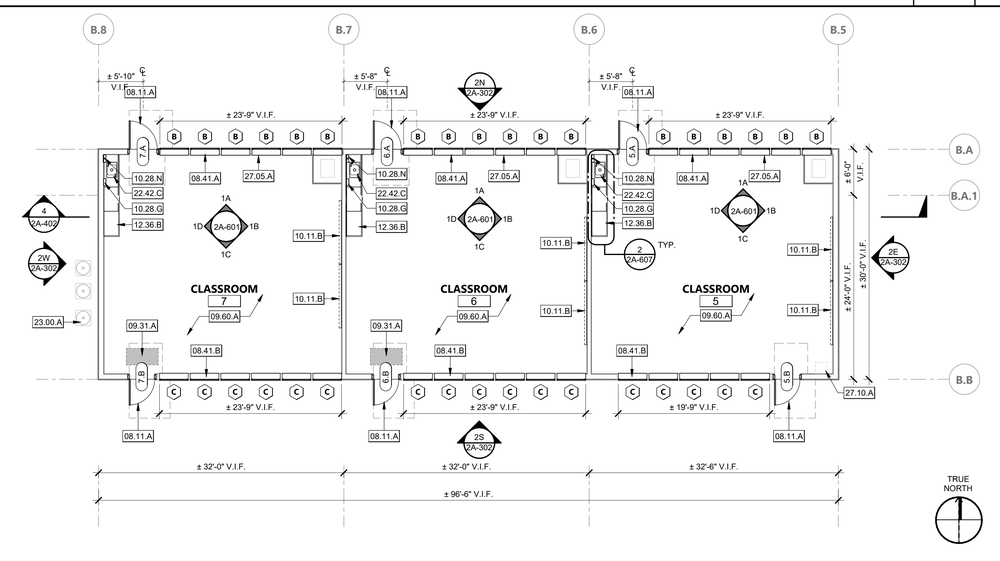
FLOOR PLAN - BUILDING A | 1/8" = 1'-0" | 1



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



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



FLOOR PLAN - BUILDING B.2 | 1/8" = 1'-0" | 3

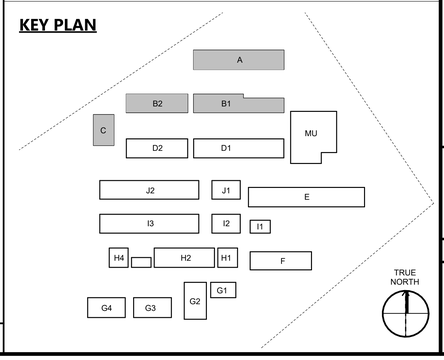
LEGEND - FLOOR PLAN GENERAL NOTES

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 A-911.
7. OFFICE SPACES, WHEN ACCOMMODATING STUDENTS SUCH AS, FOR COUNSELLING SESSIONS, SHALL PROVIDE A TURNING SPACE WITHIN THE ROOM.

LEGEND - FLOOR PLAN

ROOM NAME — ROOM NAME
101 — ROOM NUMBER
A — WALL TYPE TAG
101AA — DOOR TYPE TAG
A — WINDOW TYPE TAG
(N) PARTITION AND INFILL WALL
(E) WALL
(E) WALL TO BE DEMOLISHED
(E) 1 HR RATED WALL
(N) FRAME MOUNTED DOUBLE OR SINGLE BRACKET ROLLER SHADES

KEY PLAN



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MEADOW HOMES ES MODERNIZATION

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Concord, CA 94520

SHEET TITLE
FLOOR PLAN - BLDG A, B, C

INCREMENT: INC.2

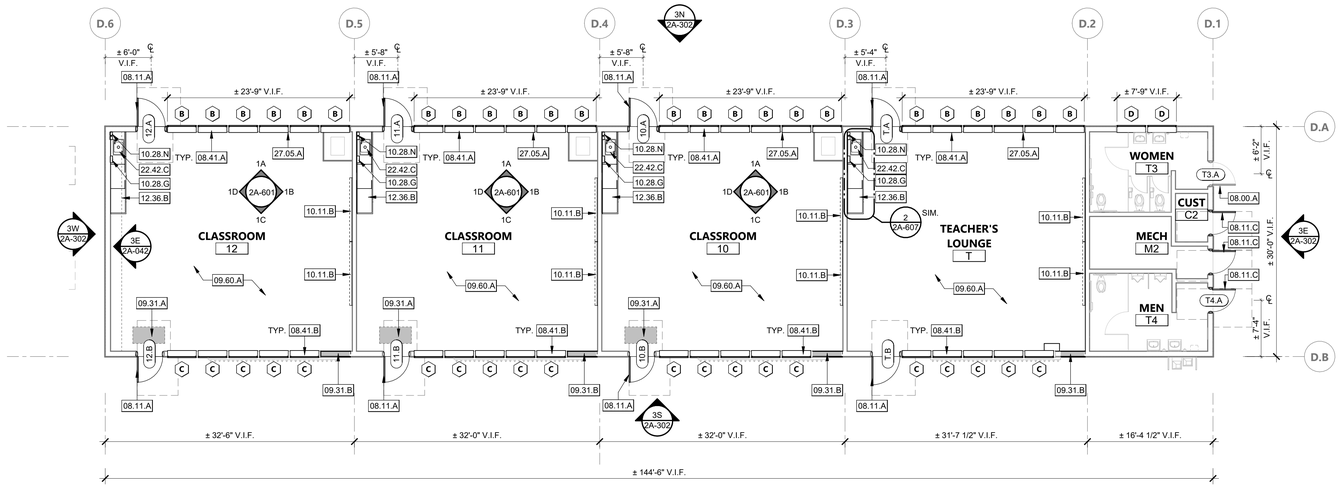
DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-201

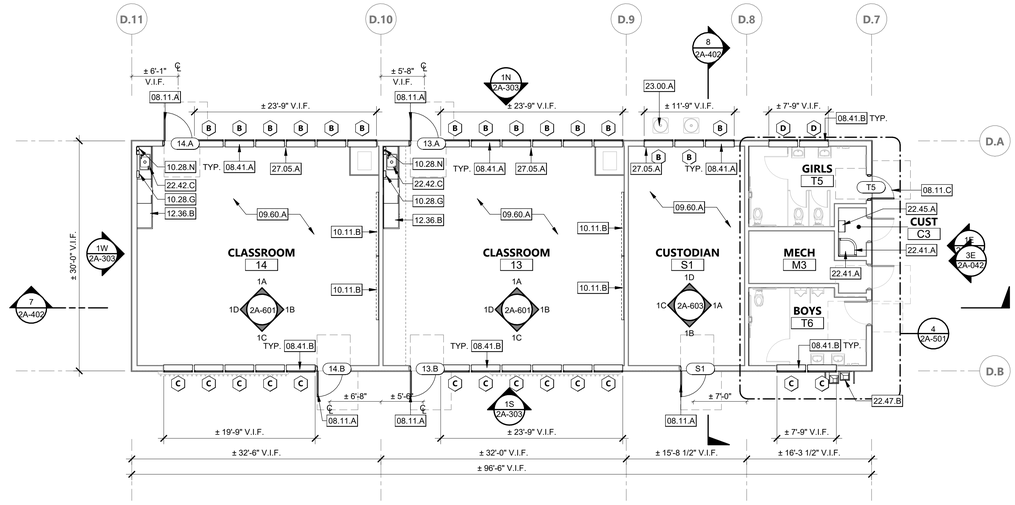
DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

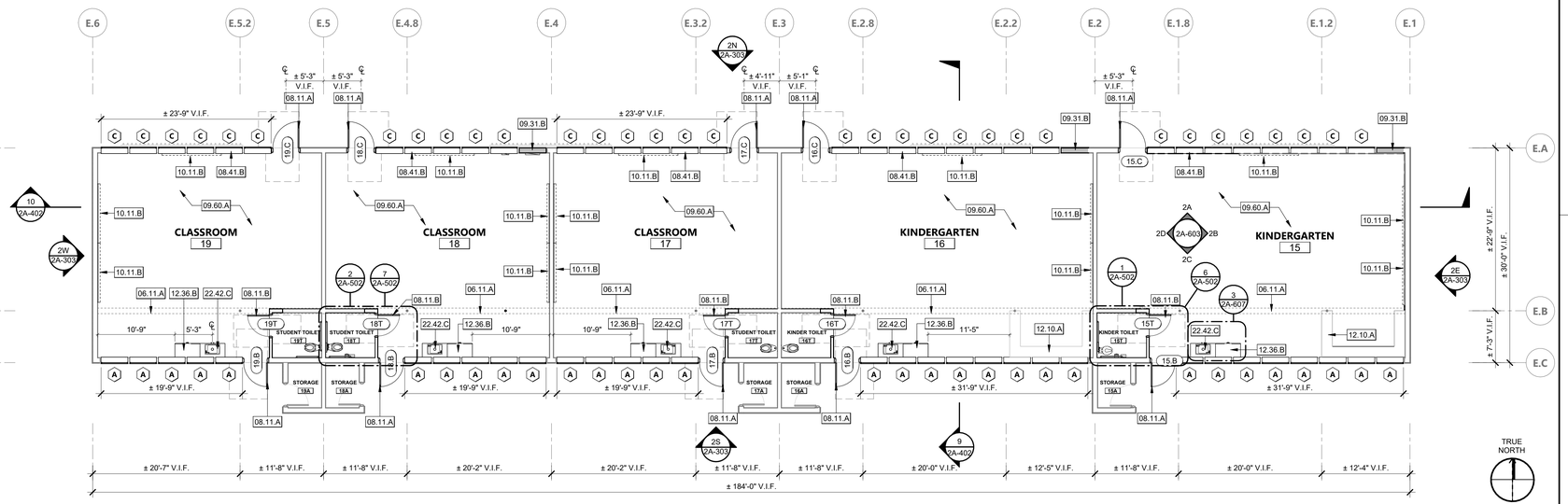
DATE PLOTTED: 7/30/2024 1:27:29 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt



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



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



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

KEYNOTES

06.11.A	(E) HEADER TO REMAIN
08.00.A	(E) DOOR TO REMAIN
08.11.A	(N) EXTERIOR FRP FLUSH DOOR WITH HALF NARROW LITE INSTALLED IN (E) WOOD OR HOLLOW METAL FRAME. PATCH (E) FRAME IF NEEDED
08.11.B	(N) WOOD DOOR AND FRAME
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.31.A	(N) CONCRETE INFILL AT DEMOLISHED WALKOFF MAT. SEE DETAIL 22/2A-921
09.31.B	(N) WALL INFILL AT (E) WINDOW OPENING. COORDINATE WALL FRAMING WITH (N) 2" CONDUIT PENETRATION PER TECHNOLOGY DRAWINGS.
09.60.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
10.11.B	WALL MOUNTED 4'x8' WHITEBOARDS, SEE DETAIL
10.28.G	(E) PAPER TOWEL DISPENSER TO REMAIN
10.28.N	SURFACE MOUNT SOAP DISPENSER
12.10.A	(E) FRAMING TO REMAIN. FINISH TO BE REMOVED AND REPLACED WITH INK & STAIN RESISTANT VINYL.
12.36.B	PLASTIC LAMINATED COUNTERTOP. 6" BACKSPLASH, TYP.
22.41.A	JANITORIAL FLOOR MOP SINK
22.42.C	ACCESSIBLE SINK, S.MP.D.
22.45.A	(N) WATER HEATER, S.P.D. FOR MORE INFORMATION
22.47.B	HI-LOW DRINKING FOUNTAIN WITH HYDRAITION STATION
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
27.05.A	(N) SURFACE RACEWAY. S.T.D.

LEGEND - FLOOR PLAN GENERAL NOTES

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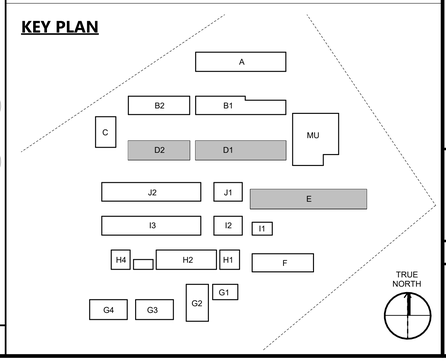
4. ALL EXPOSED STEEL TO BE GALVANIZED AND PAINTED.
5. ALL EXPOSED PIPES, STRUCTURE, AND CONDUIT TO BE PAINTED.
6. FOR WALL TYPES SEE SHEET A-911.
7. OFFICE SPACES, WHEN ACCOMMODATING STUDENTS SUCH AS, FOR COUNSELLING SESSIONS, SHALL PROVIDE A TURNING SPACE WITHIN THE ROOM.

LEGEND - FLOOR PLAN

- ROOM NAME / 101 — ROOM NAME / ROOM NUMBER
- AB — WALL TYPE TAG
- 101AA — DOOR TYPE TAG
- A — WINDOW TYPE TAG
- (N) PARTITION AND INFILL WALL
- (E) WALL
- (E) WALL TO BE DEMOLISHED
- (E) 1 HR RATED WALL
- (N) FRAME MOUNTED DOUBLE OR SINGLE BRACKET ROLLER SHADES

KEY PLAN



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INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

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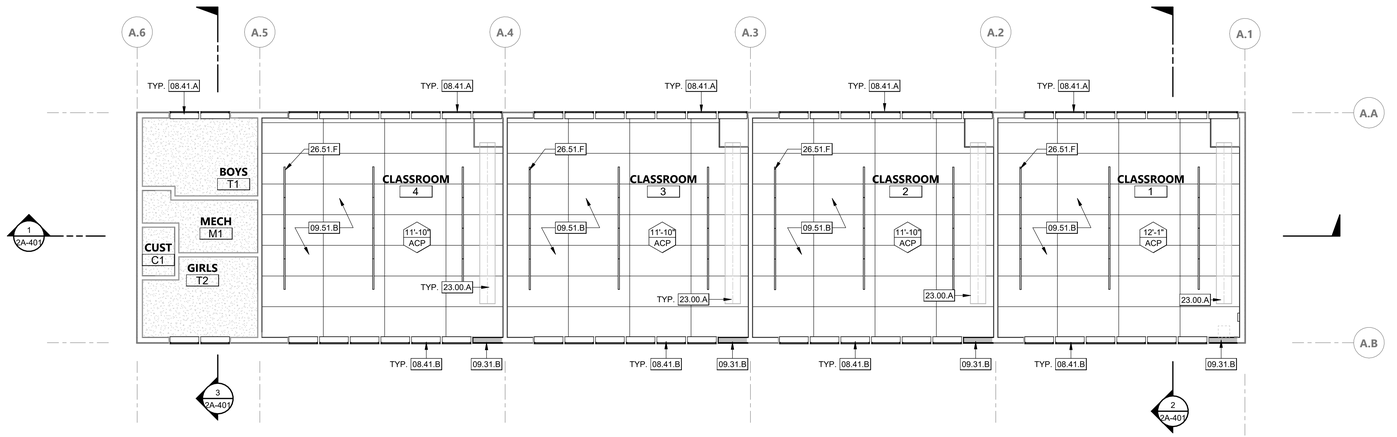
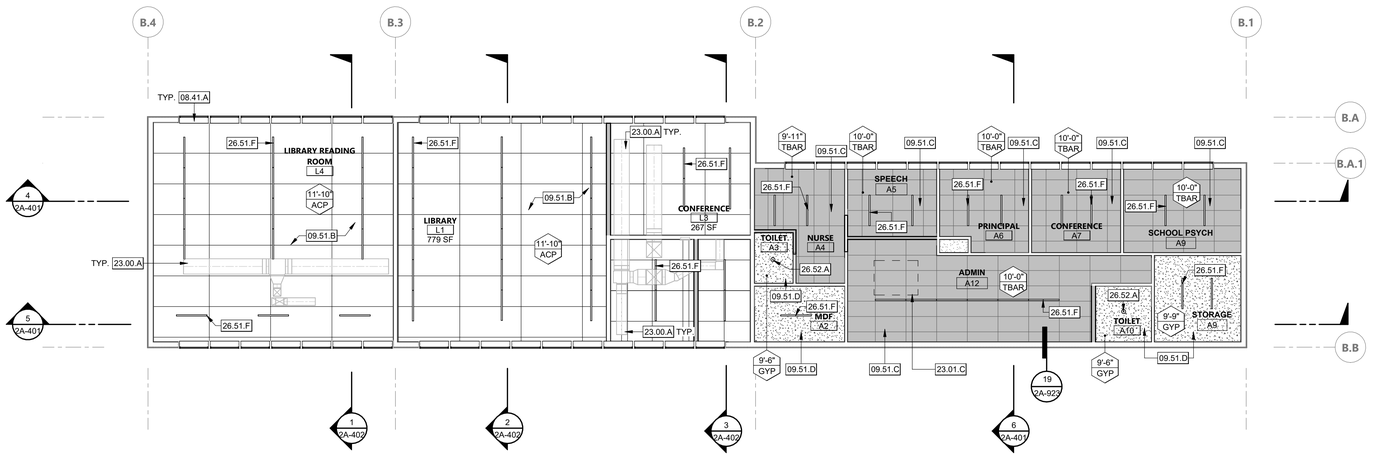


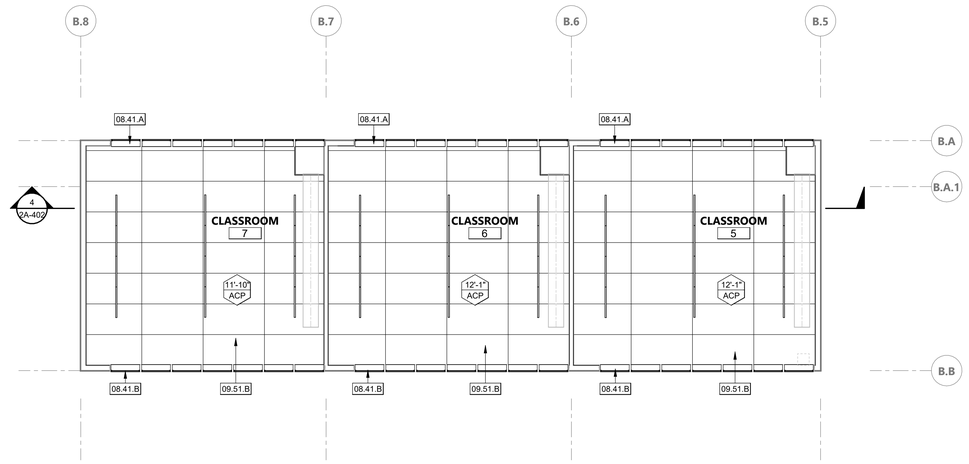
TRUE NORTH

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



TRUE NORTH

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



TRUE NORTH

CEILING PLAN - BUILDING B.2 | 1/8" = 1'-0" | 3

KEYNOTES

08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.31.B	(N) WALL INFILL AT (E) WINDOW OPENING. COORDINATE WALL FRAMING WITH (N) 2" CONDUIT PENETRATION PER TECHNOLOGY DRAWINGS.
09.51.B	(N) 8'x4' DIRECT CEILING MOUNTPANELS WITH EXTRA DEEP HAT CHANNEL
09.51.C	(N) SUSPENDED ACOUSTICAL PANEL CEILING
09.51.D	(N) GYPSUM BOARD CEILING. USE EXISTING FRAMING WHERE OCCURS.
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
23.01.C	(N) ERV HUNG IN CEILING SPACE. S.M.D. FOR NEW BLOCKING IN ROOF S.S.D
26.51.F	(N) LED RECESSED LIGHTS, S.E.D.
26.52.A	NEW CAN LIGHTS

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. FOR FRAMED GYP. BD. CEILING, SEE DETAILS 17 & 18/S-111.

LEGEND - CEILING

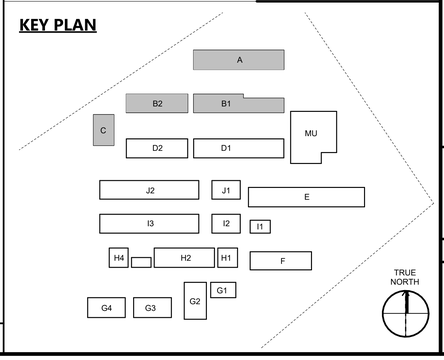
- 12'-0" ACT — CEILING HEIGHT ABOVE FIN. FLOOR
- CEILING MATERIAL

	EXISTING ACT CEILING	
	NEW 4x8 DANOLINE ACOUSTICAL CEILING PANEL (ACP)	1A-924
	NEW 2x4 SUSPENDED ACOUSTICAL PANEL CEILING (T-BAR)	7 2A-923
	EXISTING GWB - FRAMED GYPSUM BOARD CEILING (GYP(E))	
	NEW GWB - FRAMED GYPSUM BOARD CEILING (GYP)	1A-924

	EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS		SUPPLY REGISTER PER MECHANICAL DRAWINGS
	(E) RECESSED RECTANGULAR LIGHT FIXTURE		EXHAUST FAN OR GRILLE PER MECHANICAL DRAWINGS
	NEW LINEAR PENDANT LIGHT FIXTURE S.E.D.		AC SPLIT UNIT
	CAN LIGHT FLUSH MOUNT FIXTURE		AUDIO SPEAKER
	RETURN AIR GRILLE PER MECHANICAL DRAWINGS	FA	FIRE ALARM PER FIRE ALARM DRAWINGS
		OS	OCCUPANCY SENSOR PER ELECTRICAL DRAWINGS
	ROOF ACCESS HATCH	SD	SMOKE DETECTOR PER FIRE ALARM DRAWINGS

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

KEY PLAN



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PROFESSIONAL STAMP

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

REVISIONS

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

REFLECTED CEILING PLAN - BLDG A, B

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.

2A-211

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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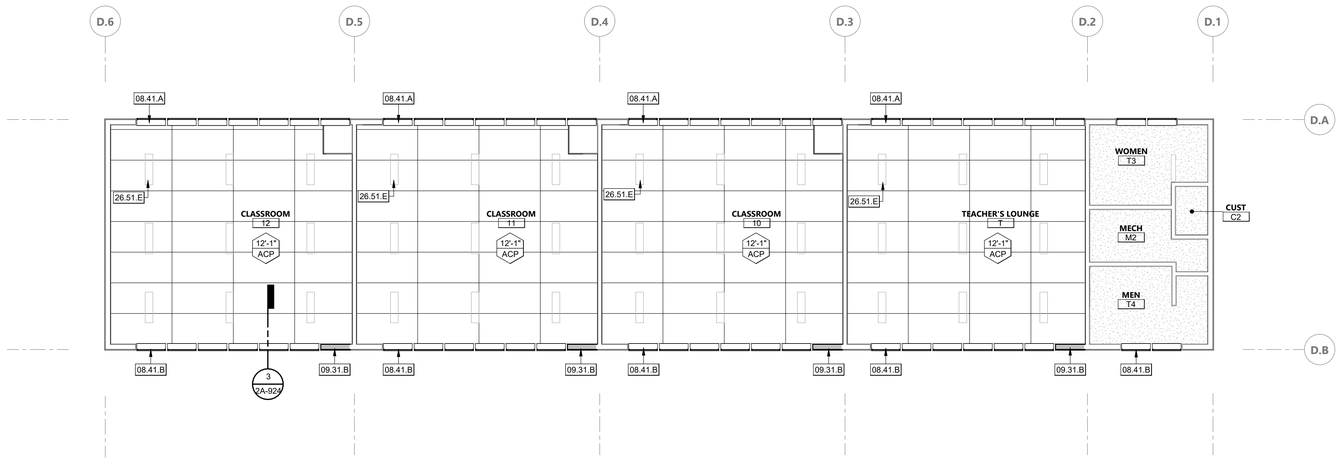
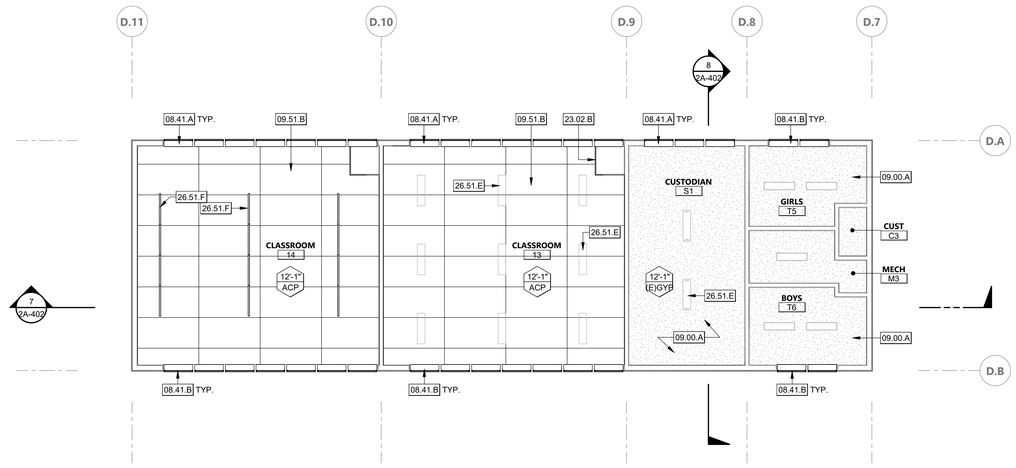
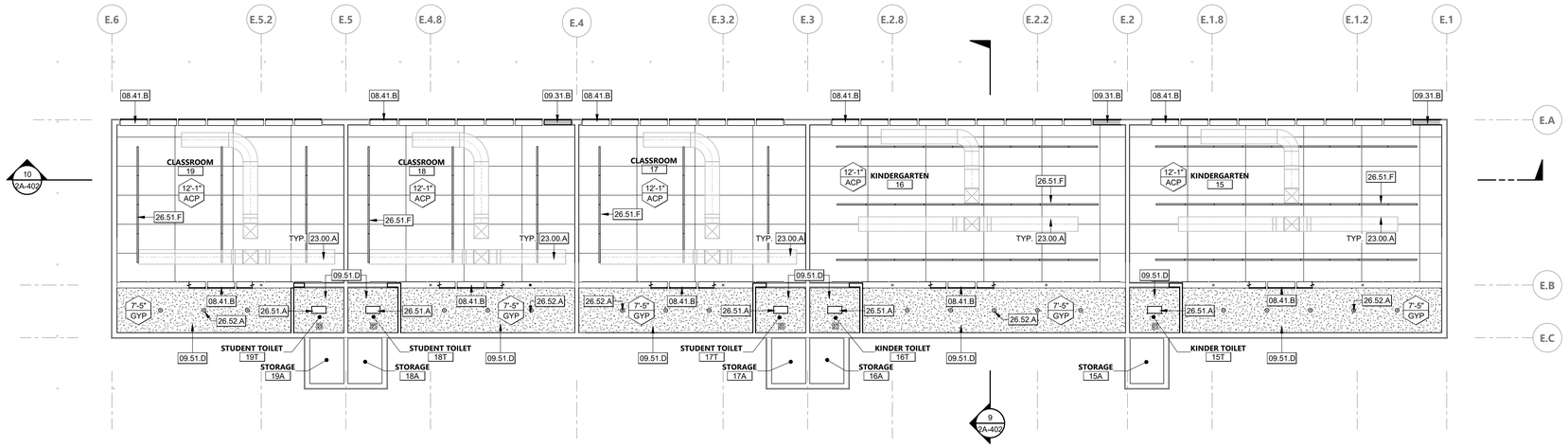


CEILING PLAN - BUILDING D.1 | 1/8" = 1'-0" | **1**



CEILING PLAN - BUILDING D.2 | 1/8" = 1'-0" | **2**



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

KEYNOTES

08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.00.A	(E) GYPSUM BOARD TO REMAIN
09.31.B	(N) WALL INFILL AT (E) WINDOW OPENING. COORDINATE WALL FRAMING WITH (N) 2" CONDUIT PENETRATION PER TECHNOLOGY DRAWINGS.
09.51.B	(N) 8'x4' DIRECT CEILING MOUNTPANELS WITH EXTRA DEEP HAT CHANNEL
09.51.D	(N) GYPSUM BOARD CEILING. USE EXISTING FRAMING WHERE OCCURS.
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
23.02.B	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
26.51.E	(E) PENDANT LIGHTS, REMOVE AND STORE, FOR REINSTALLATION AFTER CEILING WORK COMPLETED
26.51.F	(N) LED RECESSED LIGHTS, S.E.D.
26.52.A	NEW CAN LIGHTS

CEILING GENERAL NOTES

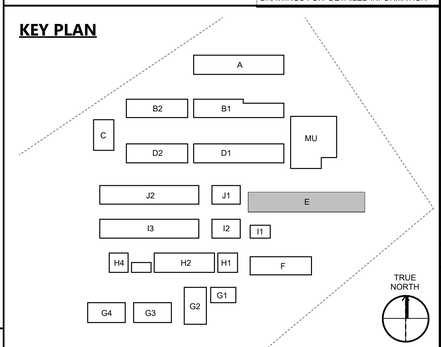
1. ANY EXPOSED DUCTS, PIPES TO BE PAINTED.
2. ANY EXPOSED STEEL TO BE GALVANIZED AND PAINTED.
3. NO SURFACE MOUNTED BACK BOXES, PIPES OR CONDUIT.
4. FOR FRAMED GYP. BD. CEILING, SEE DETAILS 17 & 18/S-111.

LEGEND - CEILING

- 12'-0" ACT — CEILING HEIGHT ABOVE FIN. FLOOR / CEILING MATERIAL
- EXISTING ACT CEILING
- NEW 4x8 DANOLINE ACOUSTICAL CEILING PANEL (ACP) — 1A-924
- NEW 2x4 SUSPENDED ACOUSTICAL PANEL CEILING (T-BAR) — 7 2A-923
- EXISTING GWB - FRAMED GYPSUM BOARD CEILING (GYP(E))
- NEW GWB - FRAMED GYPSUM BOARD CEILING (GYP) — 1A-924
- EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS
- (E) RECESSED RECTANGULAR LIGHT FIXTURE
- NEW LINEAR PENDANT LIGHT FIXTURE S.E.D.
- CAN LIGHT FLUSH MOUNT FIXTURE
- RETURN AIR GRILLE PER MECHANICAL DRAWINGS
- ROOF ACCESS HATCH
- SUPPLY REGISTER PER MECHANICAL DRAWINGS
- EXHAUST FAN OR GRILLE PER MECHANICAL DRAWINGS
- AC SPLIT UNIT
- AUDIO SPEAKER
- FA — FIRE ALARM PER FIRE ALARM DRAWINGS
- OS — OCCUPANCY SENSOR PER ELECTRICAL DRAWINGS
- SD — SMOKE DETECTOR PER FIRE ALARM DRAWINGS

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

KEY PLAN



AGENCY APPROVAL DSA# 01-121400

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INCREMENT: INC.2

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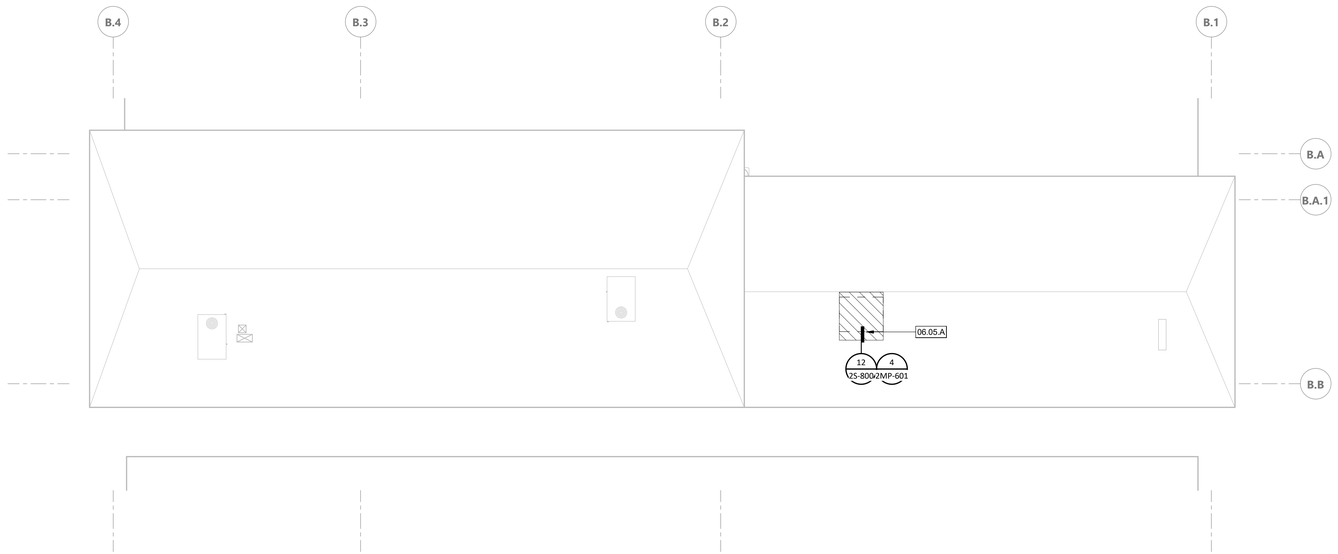


ROOF PLAN - BUILDING B.1 | 1/8" = 1'-0" | 2

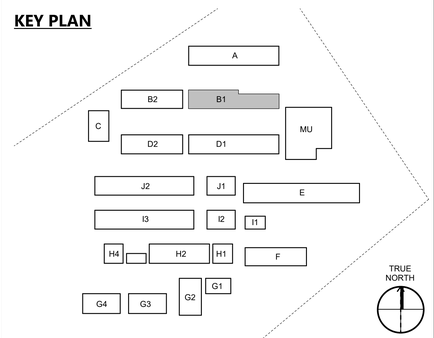
KEYNOTES

06.05.A (N) WOOD BLOCKING PER STRUCTURAL DRAWINGS

ROOF GENERAL NOTES

1. REFER TO MECHANICAL SHEETS FOR MECHANICAL EQUIPMENT INFORMATION.
2. REFER TO STRUCTURAL SHEETS FOR NEW ROOF FRAMING TO RECEIVE MECHANICAL UNITS.

KEY PLAN



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DEMO & NEW ROOF PLAN - BLDG B

INCREMENT: INC.2

DRAWN BY: Author JOB NUMBER: 23119.01

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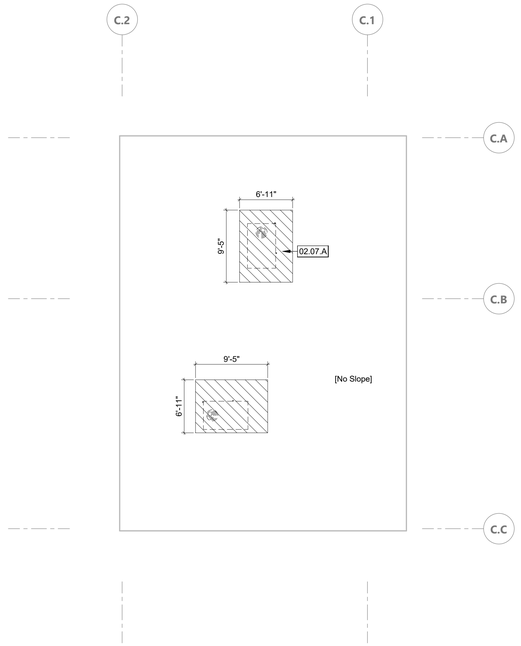
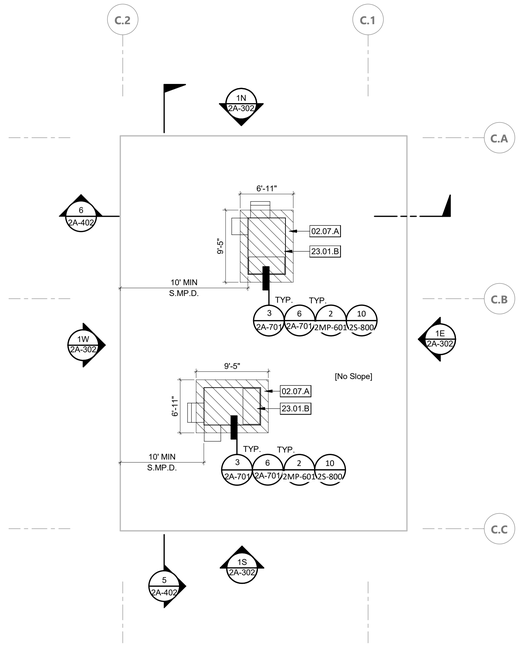
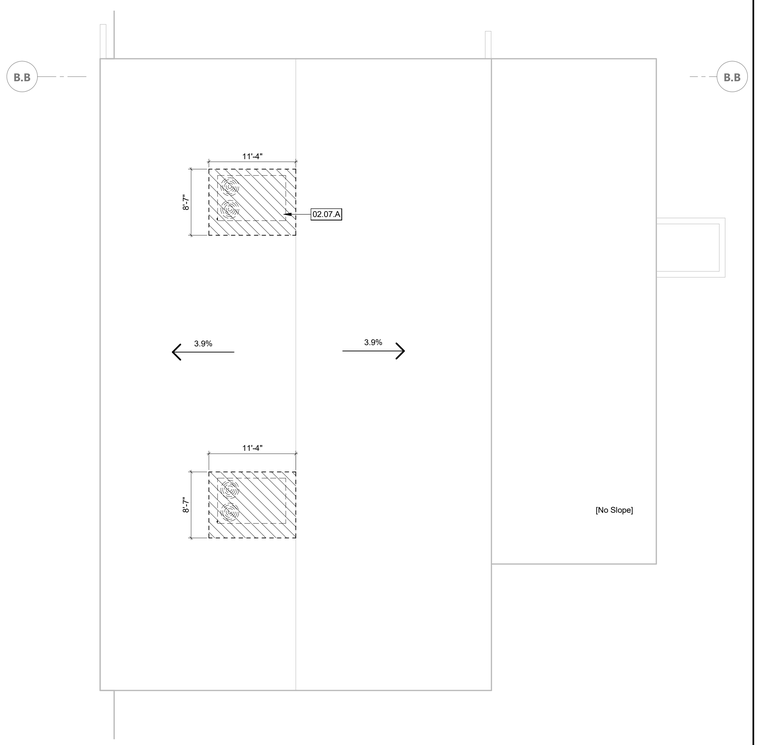


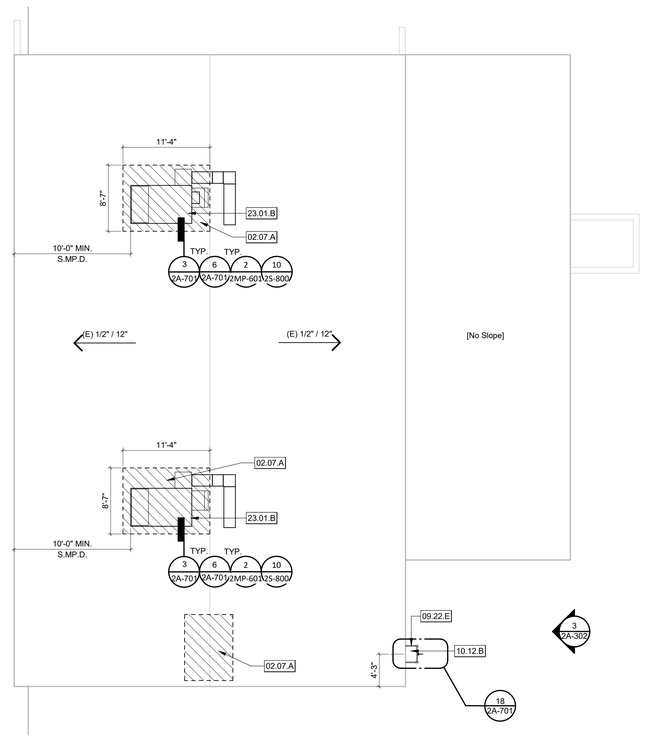
DEMO ROOF PLAN - BUILDING C | 1/8" = 1'-0" | 1



ROOF PLAN - BUILDING C | 1/8" = 1'-0" | 2



DEMO ROOF PLAN - MULTI-USE BUILDING | 1/8" = 1'-0" | 3



ROOF PLAN - MULTI-USE BUILDING | 1/8" = 1'-0" | 4

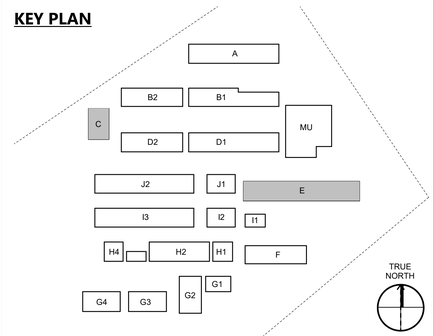
KEYNOTES

02.07.A	CUT PORTION OF (E) ROOFING AND SHEATHING TO RECEIVE (N) BLOCKING FOR HVAC UNIT. REPLACE R-30 BATT INSULATION AS NEEDED. S.S.D. & S.MP.D.
09.22.E	(E) PROVIDE WOOD BLOCKING FOR ROOF ACCESS LADDER. MAKE OPNENING FROM INTERIOR. PATCH AND PAINT TO MATCH ADJACENT SURFACES.
10.12.B	TUBULAR RAIL LOW PARAPET ACCESS ALUMINUM LADDER WITH PLATFORM.
23.01.B	(N) MECHANICAL EQUIPMENT PER MECHANICAL DRAWINGS. USE (E) CURB, OPENINGS AND DUCTWORK

ROOF GENERAL NOTES

1. REFER TO MECHANICAL SHEETS FOR MECHANICAL EQUIPMENT INFORMATION.
2. REFER TO STRUCTURAL SHEETS FOR NEW ROOF FRAMING TO RECEIVE MECHANICAL UNITS.

KEY PLAN



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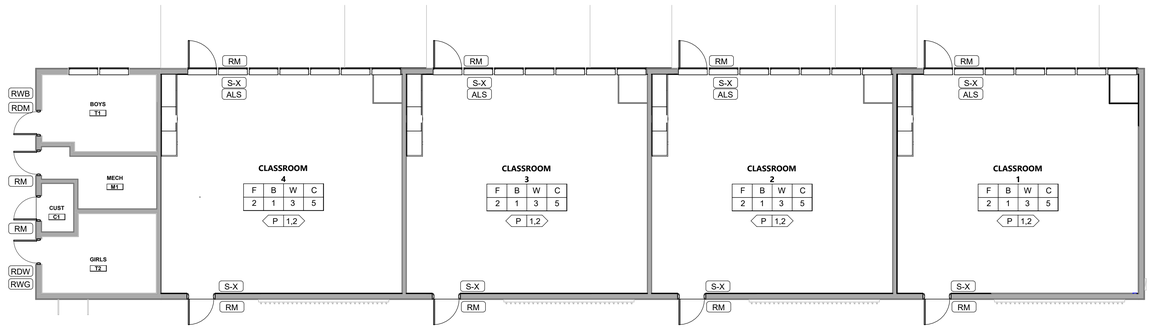
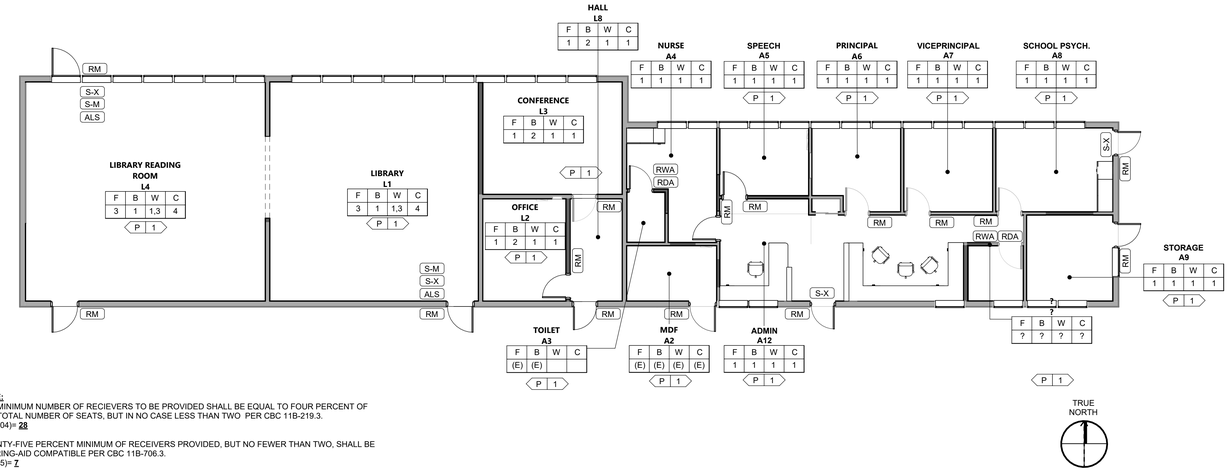


NOTE:
THE MINIMUM NUMBER OF RECIEVERS TO BE PROVIDED SHALL BE EQUAL TO FOUR PERCENT OF THE TOTAL NUMBER OF SEATS, BUT IN NO CASE LESS THAN TWO PER CBC 11B-219.3.
693*(.04)= **28**

TWENTY-FIVE PERCENT MINIMUM OF RECEIVERS PROVIDED, BUT NO FEWER THAN TWO, SHALL BE HEARING-AID COMPATIBLE PER CBC 11B-706.3.
28*(.25)= **7**

TRUE NORTH

FINISH PLAN - BUILDING A | 1/8" = 1'-0" | 1



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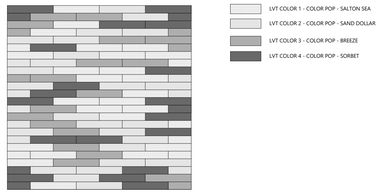
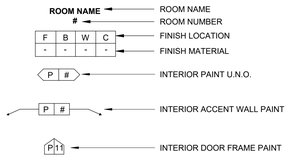
TRUE NORTH

FINISH PLAN - BUILDING B.1 | 1/8" = 1'-0" | 2

TYPICAL CLASSROOM LVT LAYOUT



FINISH PLAN LEGEND



LEGEND - SIGNAGE GENERAL NOTES

1. ALL SIGNS ON GLAZING TO BE MOUNTED BACK TO BACK. SEE DETAIL 5/2A-925
2. 11B-302.2 CARPET. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 2 INCH (12.7 MM) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303.
3. 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 WALL PREFERABLY ON THE RIGHT (CBC 11I7B.5.7)
   D. INSTALL AT 60" TOP OF EXIST AND DOOR SIGN TYPICAL
   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.
4. 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
5. 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

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	SPEC SECTION	REMARKS
(E#)	EXISTING FLOOR			MATCH EXISTING ADJACENT
1	LVT	ID LATITUDE-LAU REL OAK		TARKETT
2	LVT (MULTICOLOR)	COLORPOP		TARKETT
3	CARPET TILE 24"x24"			TARKETT
4	EPOXY			6" COVE BASE, DUR-A-FLEX
5	CERAMIC TILE			COVE BASE

WALL FINISHES (W)

(W)	DESCRIPTION	COLOR	SPEC SECTION	REMARKS
(E#)	EXISTING WALL			MATCH EXISTING ADJACENT
1	5/8" TYPE 'X' GYP BD	PAINT		
2	CERAMIC WALL TILE	TBD		DATILE - COLOR WHEEL
3	TACKABLE WALL PANEL 7' HIGH			CLARIDGE
4	FRP			

BASE FINISHES (B)

(B)	DESCRIPTION	COLOR	SPEC SECTION	REMARKS
(E#)	EXISTING BASE			MATCH EXISTING ADJACENT
1	4" RUBBER BASE	TBD		JOHNSONITE
2	6" EPOXY BASE W/ INTEGRAL COVE	TBD		

CEILING FINISHES (C)

(C)	DESCRIPTION	COLOR	SPEC SECTION	REMARK
(E#)	EXISTING CEILING			MATCH EXISTING ADJACENT
1	5/8" TYPE "X" GYP BD	PAINT		
2	5/8" WATER RESISTANT TYPE "X" GYP BD	PAINT		
3	SUSPENDED ACOUSTIC CEILING, 24" x 48" TILES	WHITE		
4	DIRECT APPLY ACOUSTIC CEILING, 24" x 48" TILES	WHITE		
5	ACOUSTICAL PERFORATED GYPSUM DIRECT MOUNT			

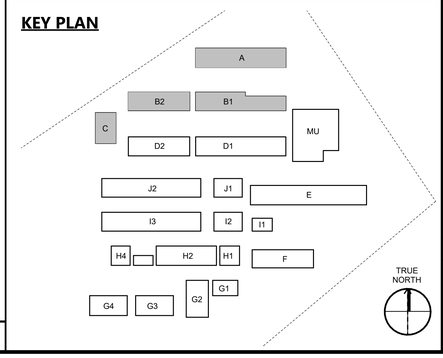
PAINT (P)

(P)	DESCRIPTION	COLOR	FINISH	SPEC SECTION	REMARK
(E#)	EXISTING PAINT				MATCH EXISTING ADJACENT
1	INTERIOR WALL PAINT	SW7757 HIGH REFLECTIVE WHITE	SHADOW SEMI-GLOSS		SHERWIN WILLIAMS
2	INTERIOR CLASSROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF FLAT		SHERWIN WILLIAMS
3	INTERIOR ACCENT WALL	TBD	SHADOW SEMI-GLOSS		SHERWIN WILLIAMS
4	INTERIOR ACCENT WALL	TBD	SHADOW SEMI-GLOSS		SHERWIN WILLIAMS
5	INTERIOR ACCENT WALL - OFFICE	TBD	SHADOW SEMI-GLOSS		SHERWIN WILLIAMS
6	EXTERIOR PAINT	TBD			SHERWIN WILLIAMS
7	EXTERIOR ACCENT PAINT	TBD			SHERWIN WILLIAMS
9	EXTERIOR TRIM	TBD			SHERWIN WILLIAMS

LEGEND - SIGNAGE

RM	ROOM NAME / NUMBER SIGN, SEE DETAIL	2/2A-925	AES	ACCESSIBLE ENTRANCE SIGN, SEE DETAIL	19/2A-925
S-1	TOILET ROOM DOOR SIGN, SEE DETAIL	18/2A-925	RWG	RESTROOM WALL - GIRLS	13/2A-925
S-2	TOILET ROOM WALL SIGN, SEE DETAILS	13/2A-925	RWB	RESTROOM WALL - BOYS	13/2A-925
S-X	TACTILE "EXIT" SIGN (INTERIOR), SEE DETAILS	7/2A-925	RDW	RESTROOM DOOR - WOMEN/GIRLS	18/2A-925
S-XR	TACTILE "EXIT ROUTE" SIGN (INTERIOR), SEE DETAILS	8/2A-925	RDM	RESTROOM DOOR - MEN/BOYS	18/2A-925
S-M	"MAXIMUM OCCUPANCY" SIGN (INTERIOR), SEE DETAIL	15/2A-925	RWA	RESTROOM WALL - ALL GENDER	13/2A-925
ALS	ASSISTIVE LISTENING SIGN, SEE DETAIL	14/2A-925	RDA	RESTROOM DOOR - ALL GENDER	18/2A-925

KEY PLAN



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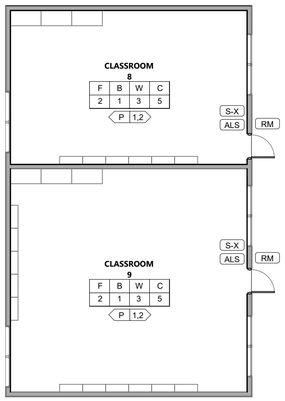
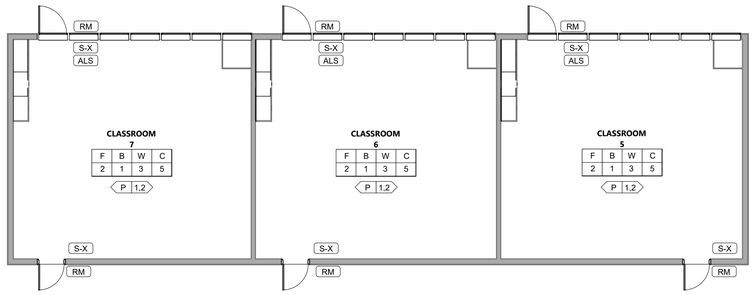


TRUE NORTH

FINISH PLAN - BUILDING C | 1/8" = 1'-0" | 4



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693*(.04)= **28**

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28*(.25)= **7**

TRUE NORTH

FINISH PLAN - BUILDING B.2 | 1/8" = 1'-0" | 3

AGENCY APPROVAL DSA# 01-121400

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

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SIGNAGE & FINISH PLANS - BLDG A, B, C

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-251

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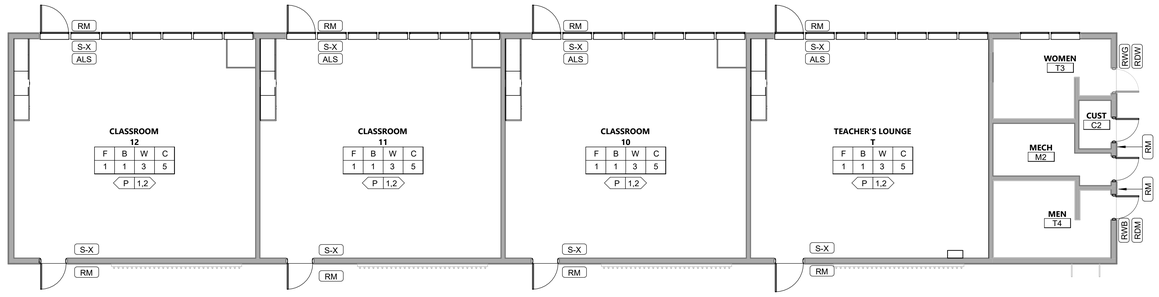
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:27:50 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt



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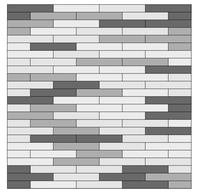
TRUE NORTH

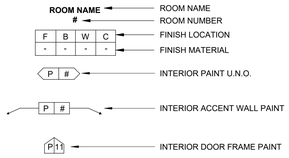
FINISH PLAN - BUILDING D.1_ | 1/8" = 1'-0" | 1

TYPICAL CLASSROOM LVT LAYOUT



- LVT COLOR 1 - COLOR POP - SALTON SEA
- LVT COLOR 2 - COLOR POP - SAND DOLLAR
- LVT COLOR 3 - COLOR POP - BREEZE
- LVT COLOR 4 - COLOR POP - SORBET

FINISH PLAN LEGEND



- ROOM NAME
- ROOM NUMBER
- FINISH LOCATION
- FINISH MATERIAL
- INTERIOR PAINT U.N.O.
- INTERIOR ACCENT WALL PAINT
- INTERIOR DOOR FRAME PAINT

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	SPEC SECTION	REMARKS
(E#)	EXISTING FLOOR			MATCH EXISTING ADJACENT
1	LVT	ID LATITUDE-LAU REL OAK		TARKETT
2	LVT (MULTICOLOR)	COLORPOP		TARKETT
3	CARPET TILE 24"x24"			TARKETT
4	EPOXY			6" COVE BASE, DUR-A-FLEX
5	CERAMIC TILE			COVE BASE

WALL FINISHES (W)

(W)	DESCRIPTION	COLOR	SPEC SECTION	REMARKS
(E#)	EXISTING WALL			MATCH EXISTING ADJACENT
1	5/8" TYPE 'X' GYP BD	PAINT		
2	CERAMIC WALL TILE	TBD		DATILE - COLOR WHEEL
3	TACKABLE WALL PANEL 7' HIGH			CLARIDGE
4	FRP			

BASE FINISHES (B)

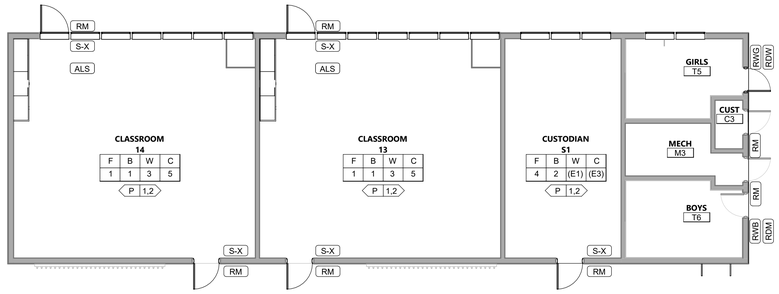
(B)	DESCRIPTION	COLOR	SPEC SECTION	REMARKS
(E#)	EXISTING BASE			MATCH EXISTING ADJACENT
1	4" RUBBER BASE	TBD		JOHNSONITE
2	6" EPOXY BASE W/ INTEGRAL COVE	TBD		

CEILING FINISHES (C)

(C)	DESCRIPTION	COLOR	SPEC SECTION	REMARK
(E#)	EXISTING CEILING			MATCH EXISTING ADJACENT
1	5/8" TYPE "X" GYP BD	PAINT		
2	5/8" WATER RESISTANT TYPE "X" GYP BD	PAINT		
3	SUSPENDED ACOUSTIC CEILING, 24" x 48" TILES	WHITE		
4	DIRECT APPLY ACOUSTIC CEILING, 24" x 48" TILES	WHITE		
5	ACOUSTICAL PERFORATED GYPSUM DIRECT MOUNT			

PAINT (P)

(P)	DESCRIPTION	COLOR	FINISH	SPEC SECTION	REMARK
(E#)	EXISTING PAINT				MATCH EXISTING ADJACENT
1	INTERIOR WALL PAINT	SW7757 HIGH REFLECTIVE WHITE	SHADOW SEMI-GLOSS		SHERWIN WILLIAMS
2	INTERIOR CLASSROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF FLAT		SHERWIN WILLIAMS
3	INTERIOR ACCENT WALL	TBD	SHADOW SEMI-GLOSS		SHERWIN WILLIAMS
4	INTERIOR ACCENT WALL	TBD	SHADOW SEMI-GLOSS		SHERWIN WILLIAMS
5	INTERIOR ACCENT WALL - OFFICE	TBD	SHADOW SEMI-GLOSS		SHERWIN WILLIAMS
6	EXTERIOR PAINT	TBD			SHERWIN WILLIAMS
7	EXTERIOR ACCENT PAINT	TBD			SHERWIN WILLIAMS
9	EXTERIOR TRIM	TBD			SHERWIN WILLIAMS



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TRUE NORTH

FINISH PLAN - BUILDING D.2+ | 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. 11B-302.2 CARPET. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 2 INCH (12.7 MM) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303.
3. 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 WALL PREFERABLY ON THE RIGHT (CBC II17B.5.7)
   D. INSTALL AT 60" TOP OF EXIST AND DOOR SIGN TYPICAL
   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.
4. 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
5. 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

LEGEND - SIGNAGE

RM	ROOM NAME / NUMBER SIGN, SEE DETAIL	2/2A-925	AES	ACCESSIBLE ENTRANCE SIGN, SEE DETAIL	19/2A-925
S-1	TOILET ROOM DOOR SIGN, SEE DETAIL	18/2A-925	RWG	RESTROOM WALL - GIRLS	13/2A-925
S-2	TOILET ROOM WALL SIGN, SEE DETAILS	13/2A-925	RWB	RESTROOM WALL - BOYS	13/2A-925
S-X	TACTILE "EXIT" SIGN (INTERIOR), SEE DETAILS	7/2A-925	RDW	RESTROOM DOOR - WOMEN/GIRLS	18/2A-925
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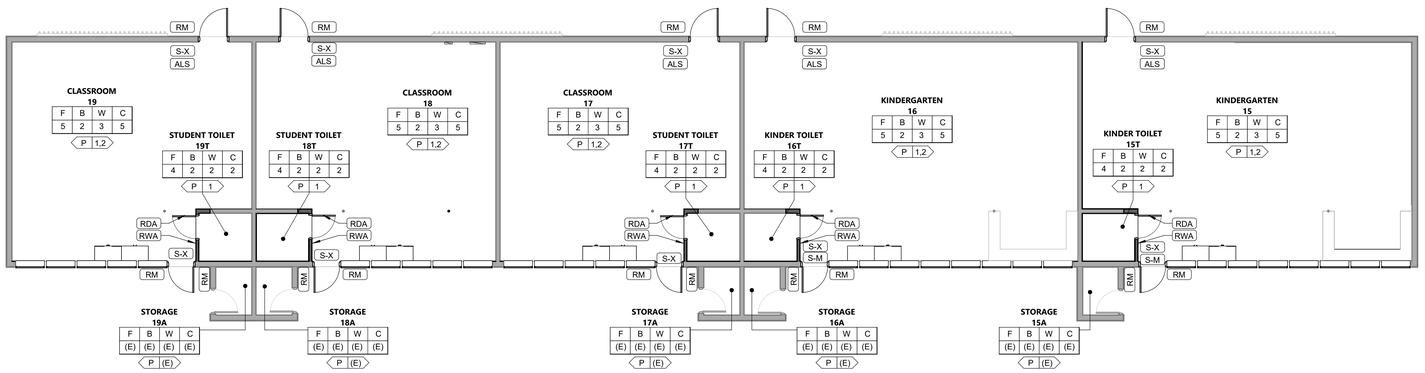
KEY PLAN

TRUE NORTH



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TRUE NORTH

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

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

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SHEET TITLE
SIGNAGE & FINISH PLANS - BLDG D, E

INCREMENT: INC.2

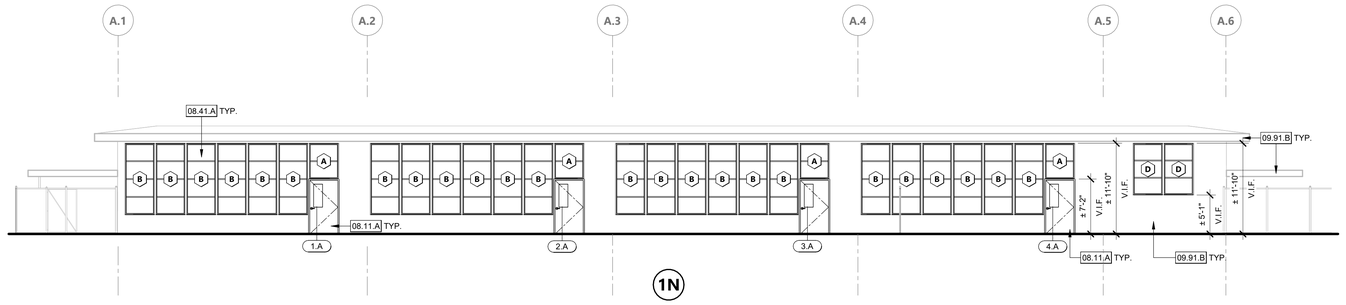
DRAWN BY: JOB NUMBER: 23119.01

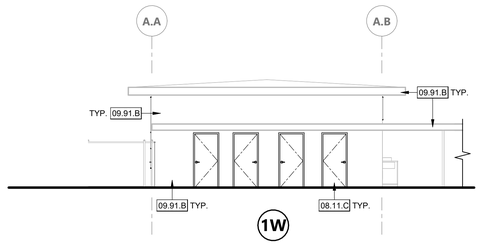
SHEET NO.
2A-252

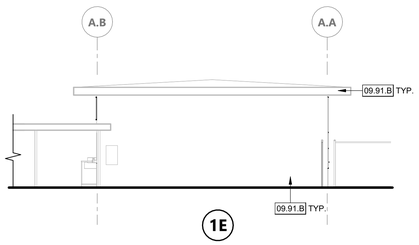
DATE: JULY 30, 2024

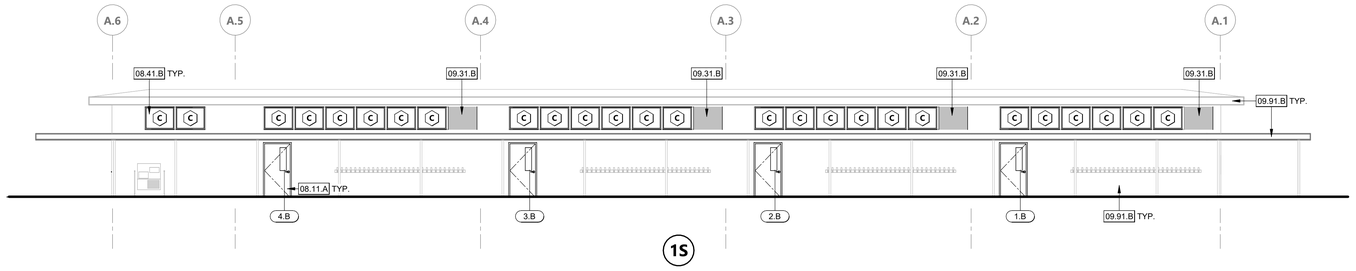
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:27:55 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

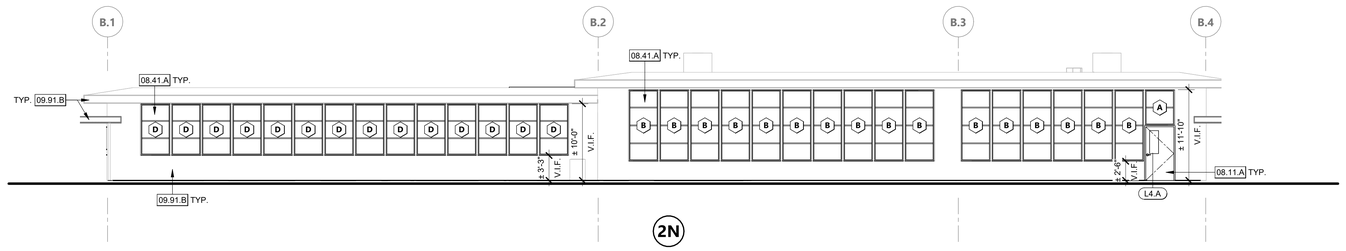


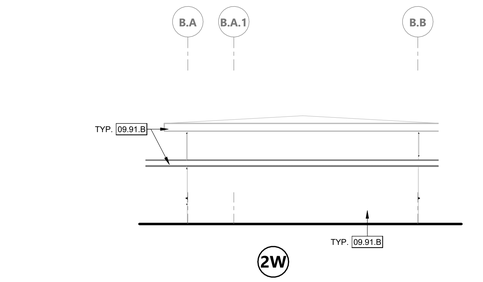


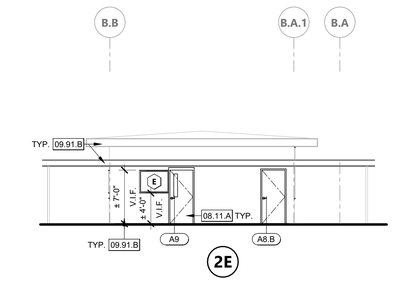


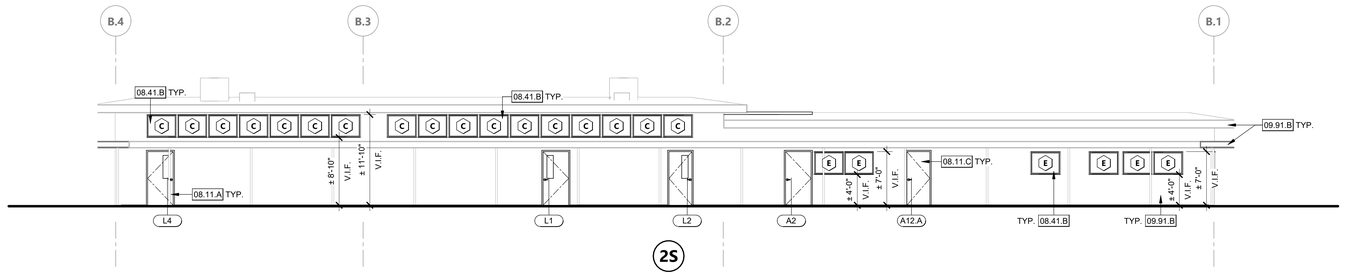


EXTERIOR ELEVATIONS - BUILDING A | 1/8" = 1'-0" | 1









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

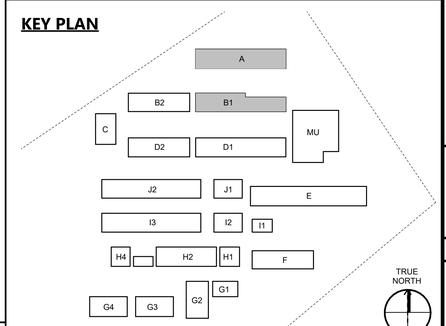
KEYNOTES

08.11.A	(N) EXTERIOR FRP FLUSH DOOR WITH HALF NARROW LITE INSTALLED IN (E) WOOD OR HOLLOW METAL FRAME. PATCH (E) FRAME IF NEEDED
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.31.B	(N) WALL INFILL AT (E) WINDOW OPENING. COORDINATE WALL FRAMING WITH (N) 2" CONDUIT PENETRATION PER TECHNOLOGY DRAWINGS.
09.91.B	PAINT ALL EXTERIOR SURFACES

EXTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE WINDOW SCHEDULE.
2. NEW WINDOW AND DOOR FRAMES TO BE PAINT. MATCH EXISTING.
3. PATCH AND REPAIR EXTERIOR SURFACES AS NEEDED OR WHERE INDICATED
4. ALL WALL PATCHS TO BE PAINTED. MATCH EXISTING EXTERIOR WALL COLOR. PROVIDE A FLUSH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
5. EXTERIOR REPAINTING SCOPE OF WORK: REPAIR ALL DAMAGED SURFACES TO ALLOW FOR A FLUSH, CLEAN SURFACE. SAND, CLEAN, RE-PRIME ALL EXISTING SURFACES. REPAINT ALL EXISTING PAINTED SURFACES, INCLUDING BUT NOT LIMITED TO WALLS, WALKWAY SOFFITS, CONDUITS, PIPES, GUTTER, DOWNSPOUTS, TRIM AND DOORS & WINDOW FRAMES OF EXISTING BUILDINGS. REPAINT ALL PAINTED SITE EQUIPMENT INCLUDING BUT NOT LIMITED TO BENCHES, GATES, FENCES, POSTS, BASKETBALL EQUIPMENT, FREESTANDING WALLS. COLORS PER DISTRICT APROVED COLOR PALETTE. ALL NEW DOORS AND WINDOWS AS WELL NEW DOORS AND WINDOW FRAMES TO BE PAINTED AS NOTED ON PLANS.

KEY PLAN



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INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

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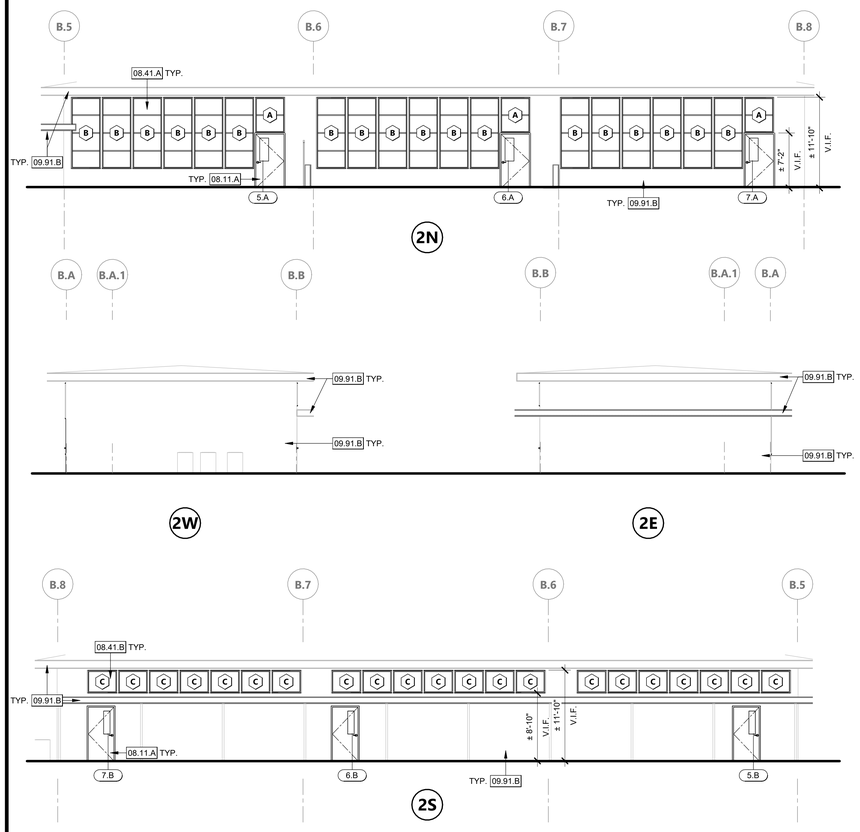
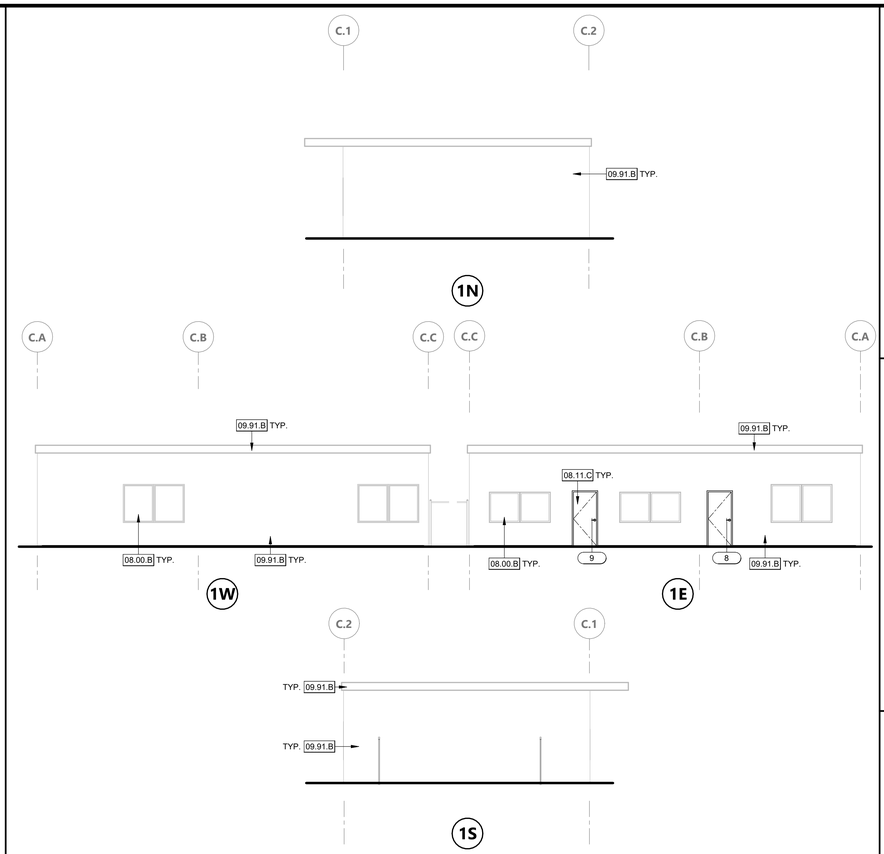
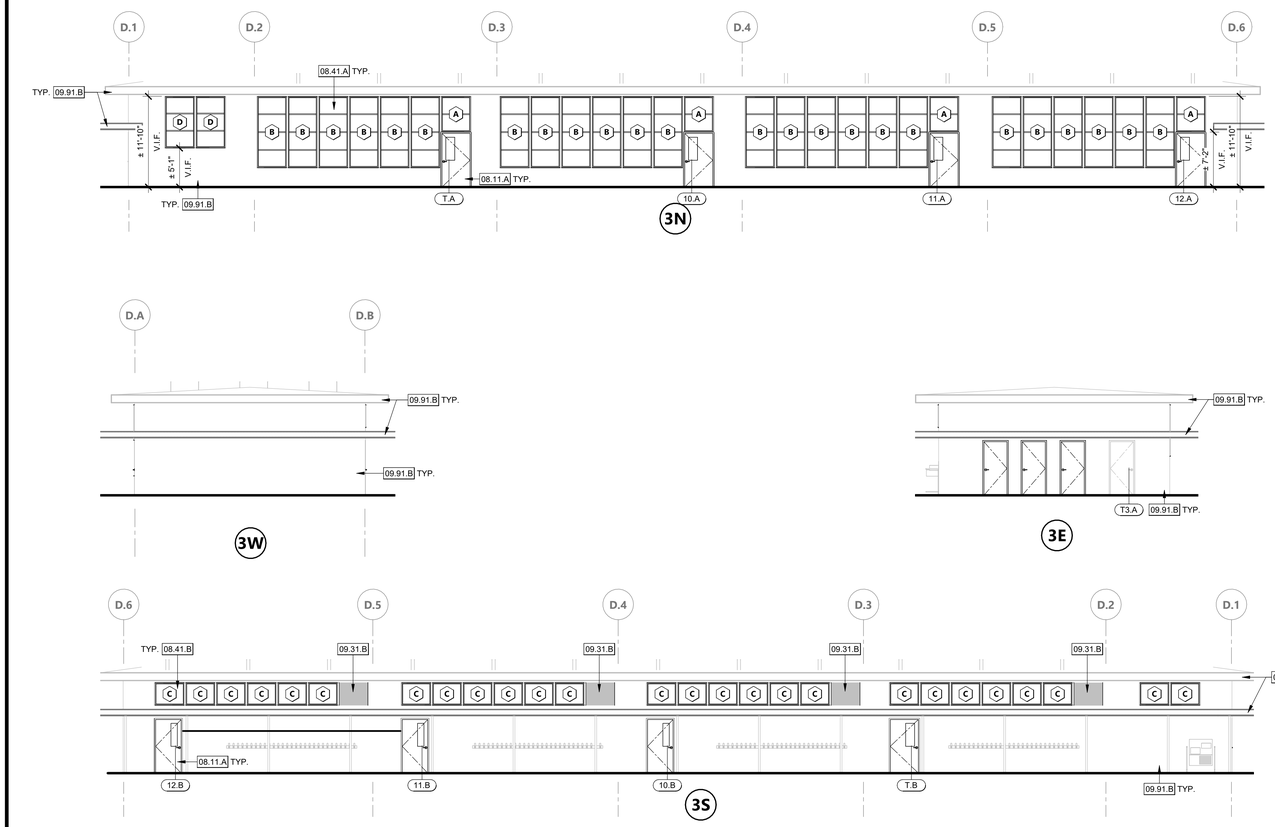


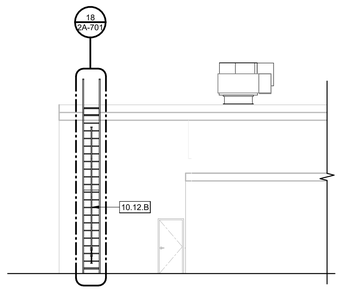
EXTERIOR ELEVATIONS - BUILDING B.2 | 1/8" = 1'-0" | 2



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



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



MPR - PARTIAL EAST ELAVATION | 1/8" = 1'-0" | 3

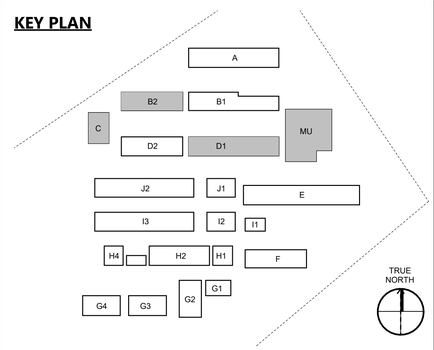
KEYNOTES

08.00.B	(E) WINDOW TO REMAIN
08.11.A	(N) EXTERIOR FRP FLUSH DOOR WITH HALF NARROW LITE INSTALLED IN (E) WOOD OR HOLLOW METAL FRAME. PATCH (E) FRAME IF NEEDED
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.31.B	(N) WALL INFILL AT (E) WINDOW OPENING. COORDINATE WALL FRAMING WITH (N) 2" CONDUIT PENETRATION PER TECHNOLOGY DRAWINGS.
09.91.B	PAINT ALL EXTERIOR SURFACES
10.12.B	TUBULAR RAIL LOW PARAPET ACCESS ALUMINUM LADDER WITH PLATFORM.

EXTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE WINDOW SCHEDULE.
2. NEW WINDOW AND DOOR FRAMES TO BE PAINT. MATCH EXISTING.
3. PATCH AND REPAIR EXTERIOR SURFACES AS NEEDED OR WHERE INDICATED
4. ALL WALL PATCHS TO BE PAINTED. MATCH EXISTING EXTERIOR WALL COLOR. PROVIDE A FLUSH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
5. EXTERIOR REPAINTING SCOPE OF WORK: REPAIR ALL DAMAGED SURFACES TO ALLOW FOR A FLUSH, CLEAN SURFACE. SAND, CLEAN, RE-PRIME ALL EXISTING SURFACES. REPAINT ALL EXISTING PAINTED SURFACES, INCLUDING BUT NOT LIMITED TO WALLS, WALKWAY SOFFITS, CONDUITS, PIPES, GUTTER, DOWNSPOUTS, TRIM AND DOORS & WINDOW FRAMES OF EXISTING BUILDINGS. REPAINT ALL PAINTED SITE EQUIPMENT INCLUDING BUT NOT LIMITED TO BENCHES, GATES, FENCES, POSTS, BASKETBALL EQUIPMENT, FREESTANDING WALLS. COLORS PER DISTRICT APROVED COLOR PALETTE. ALL NEW DOORS AND WINDOWS AS WELL NEW DOORS AND WINDOW FRAMES TO BE PAINTED AS NOTED ON PLANS.

KEY PLAN



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REVISIONS

NO.	DATE	DESCRIPTION

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Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
EXTERIOR ELEVATIONS - BLDG B2, C, D1& MPR

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-302

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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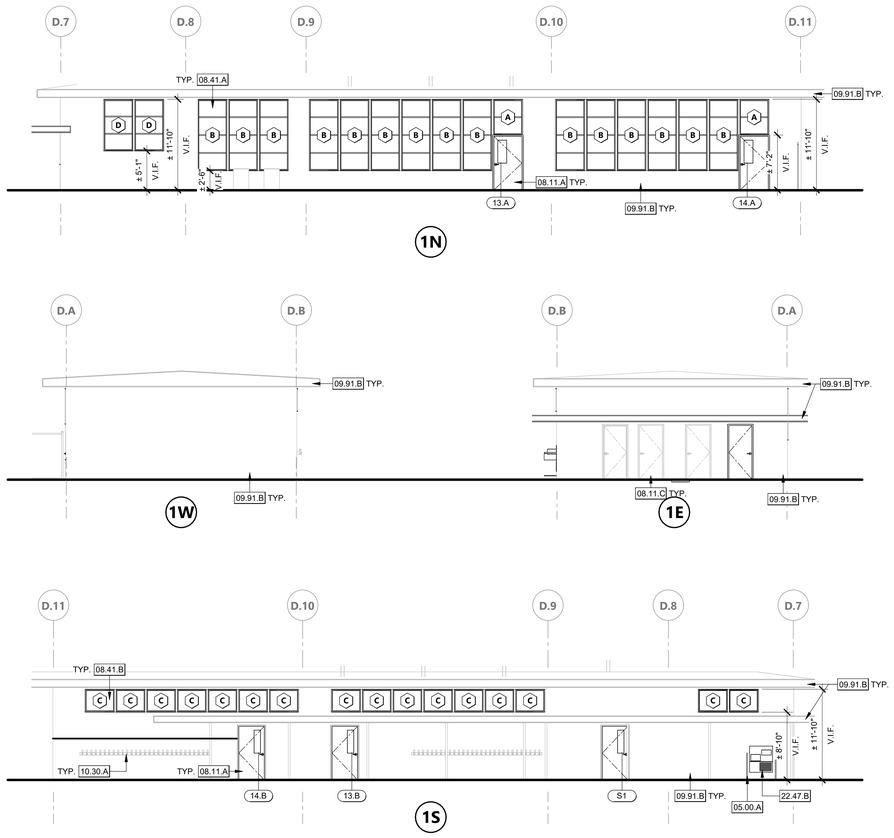
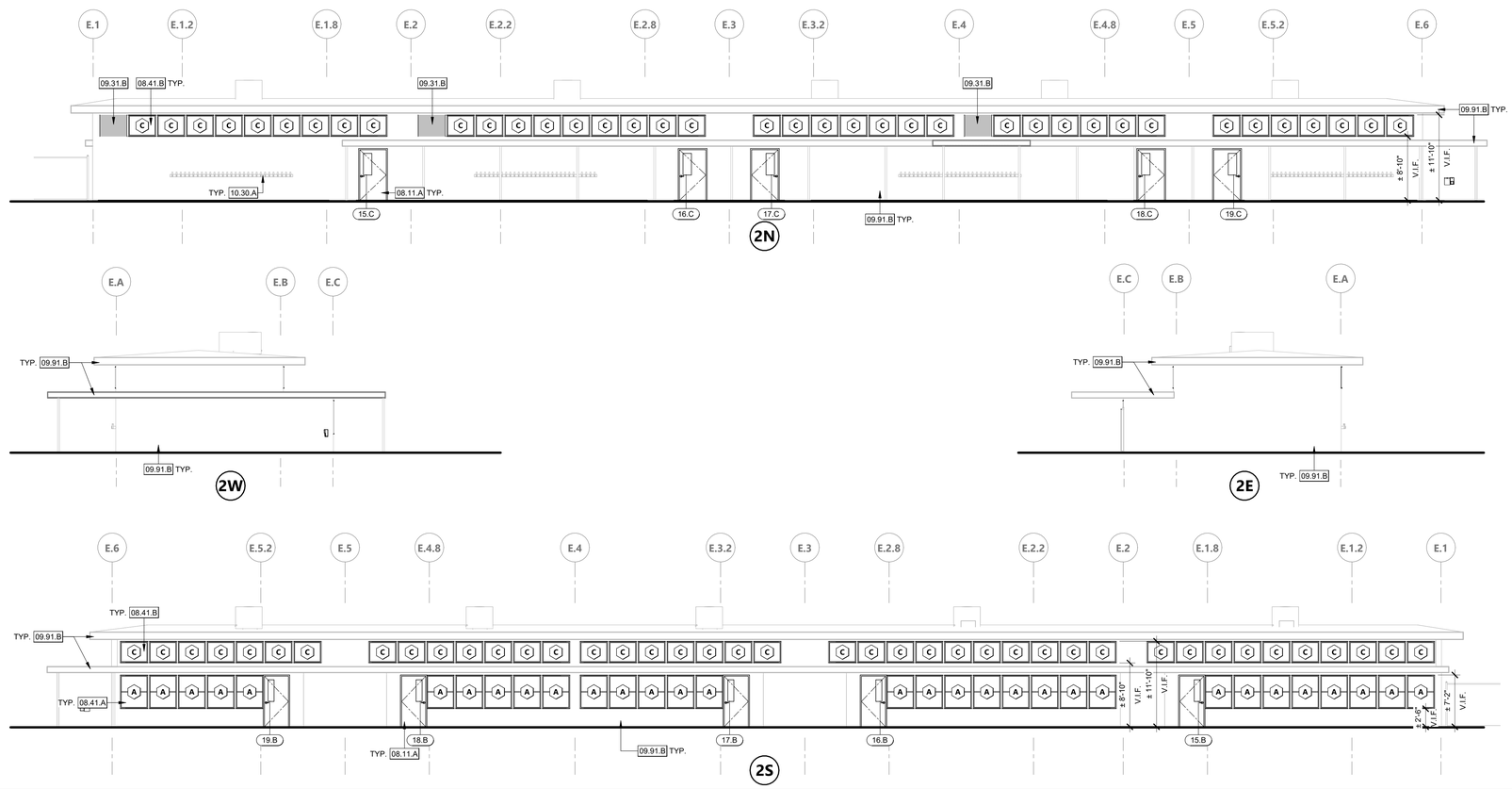


EXTERIOR ELEVATIONS - BUILDING D.2

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



EXTERIOR ELEVATIONS - BUILDING E

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

KEYNOTES

05.00.A	(E) METAL HANDRAIL TO REMAIN
08.11.A	(N) EXTERIOR FRP FLUSH DOOR WITH HALF NARROW LITE INSTALLED IN (E) WOOD OR HOLLOW METAL FRAME. PATCH (E) FRAME IF NEEDED
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.31.B	(N) WALL INFILL AT (E) WINDOW OPENING. COORDINATE WALL FRAMING WITH (N) 2" CONDUIT PENETRATION PER TECHNOLOGY DRAWINGS.
09.91.B	PAINT ALL EXTERIOR SURFACES
10.30.A	(E) COAT HOOKS TO BE REMOVED AND REINSTALLED
22.47.B	HI-LOW DRINKING FOUNTAIN WITH HYDRAITION STATION

EXTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE WINDOW SCHEDULE.
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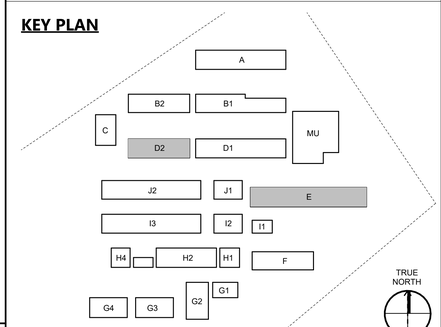
KEY PLAN



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SHEET TITLE
EXTERIOR ELEVATIONS - BLDG D2, E

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

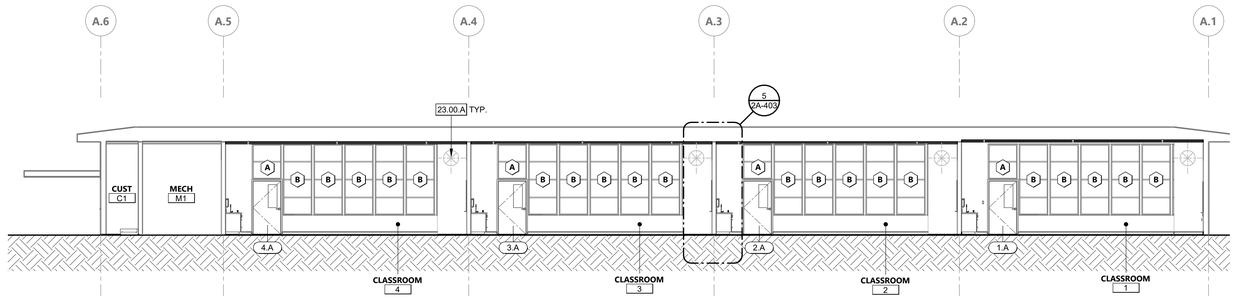
SHEET NO.

2A-303

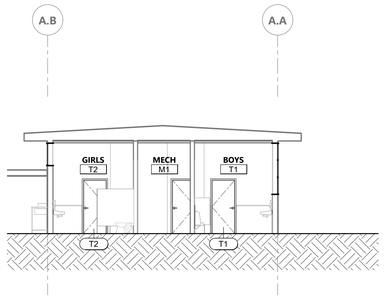
DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

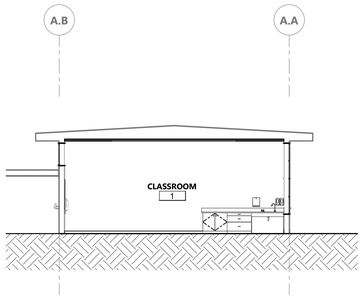
DATE PLOTTED: 7/30/2024 1:28:10 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt



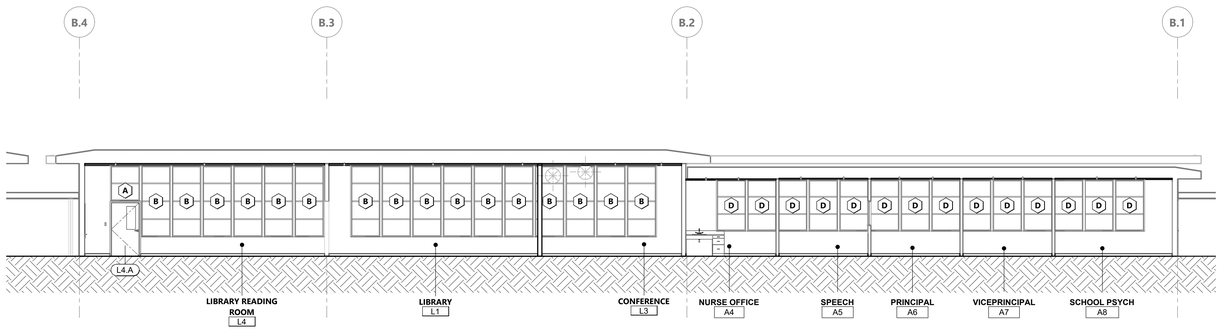
BLDG A - SECTION AA | 1/8" = 1'-0" | **1**



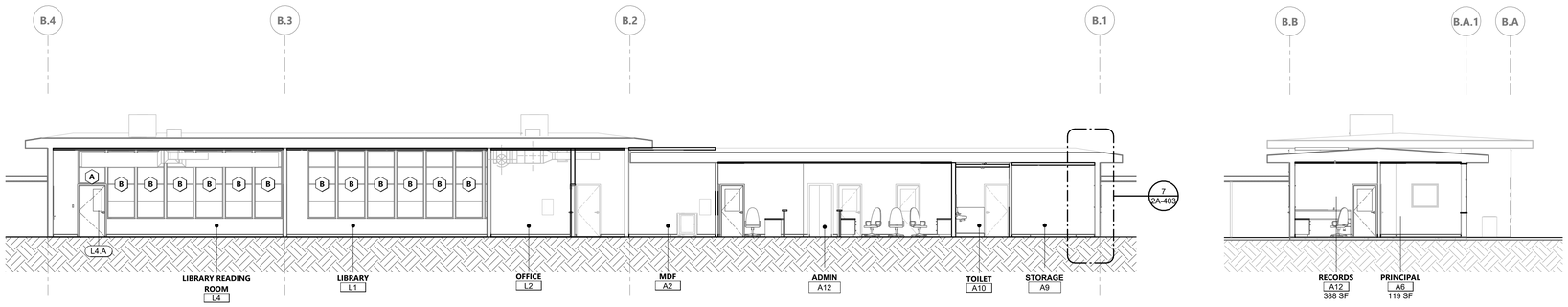
BLDG A - SECTION CC | 1/8" = 1'-0" | **3**



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



BLDG B.1 - SECTION AA | 1/8" = 1'-0" | **4**



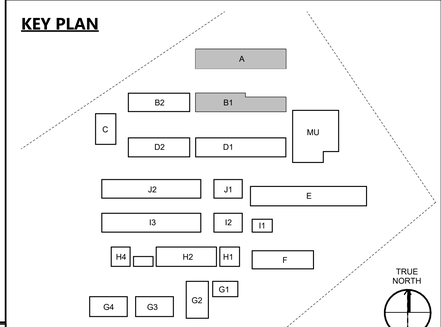
BLDG B.1 - SECTION BB | 1/8" = 1'-0" | **5**

BLDG B.1 - SECTION FF | 1/8" = 1'-0" | **6**

KEYNOTES

23.00.A (E) MECHANICAL EQUIPMENT TO REMAIN

KEY PLAN



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Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
BUILDING SECTIONS A, B.1

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-401

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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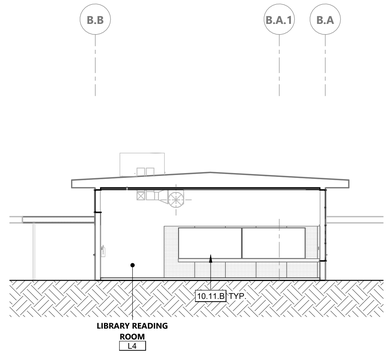
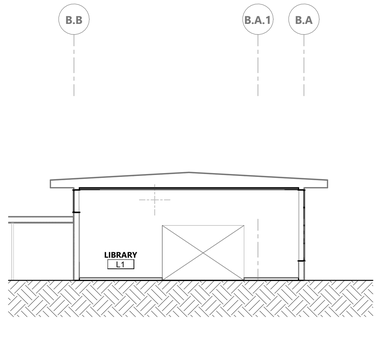
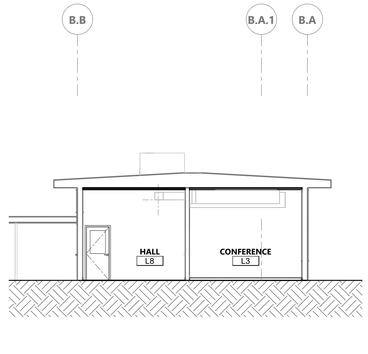


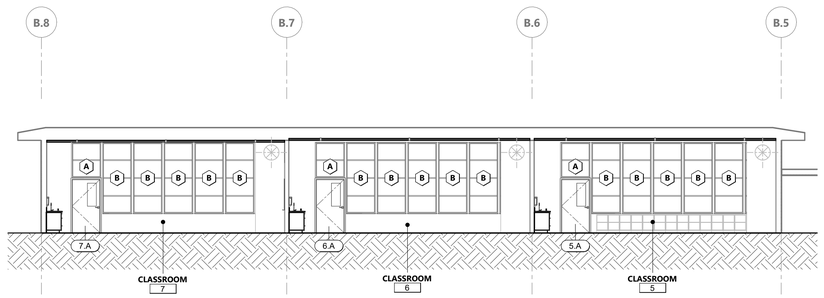
BLDG B.1 - SECTION CC | 1/8" = 1'-0" | 1



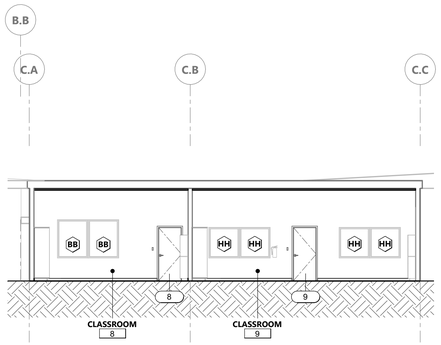
BLDG B.1 - SECTION DD | 1/8" = 1'-0" | 2



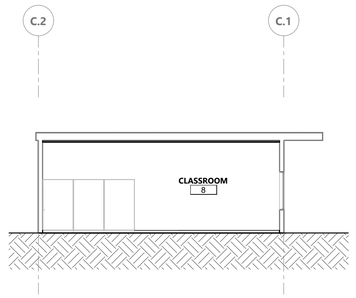
BLDG B.1 - SECTION EE | 1/8" = 1'-0" | 3



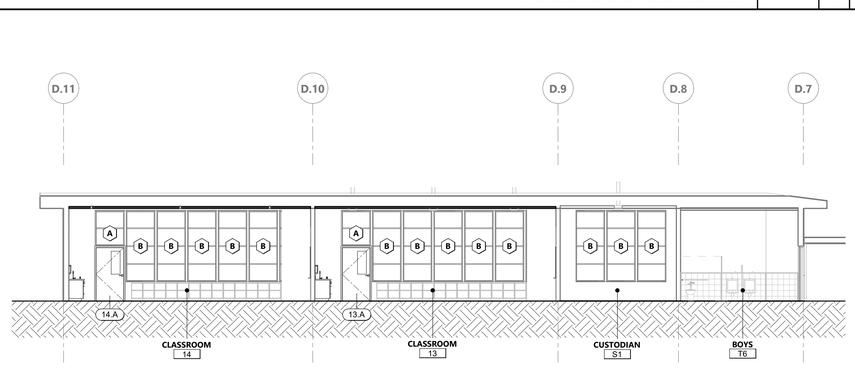
BUILDING B.2 - SECTION AA | 1/8" = 1'-0" | 4



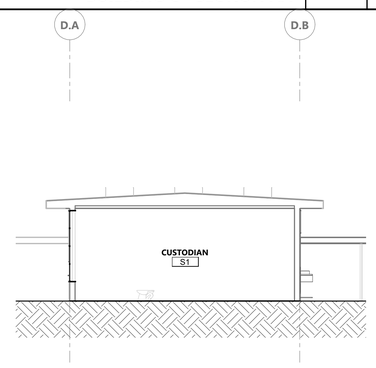
BUILDING C - SECTION AA | 1/8" = 1'-0" | 5



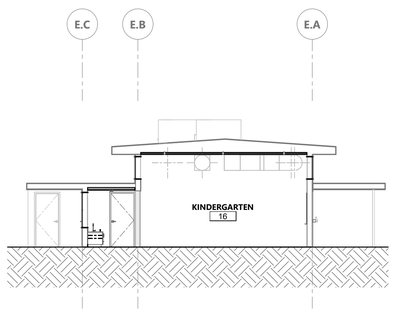
BUILDING C - SECTION BB | 1/8" = 1'-0" | 6



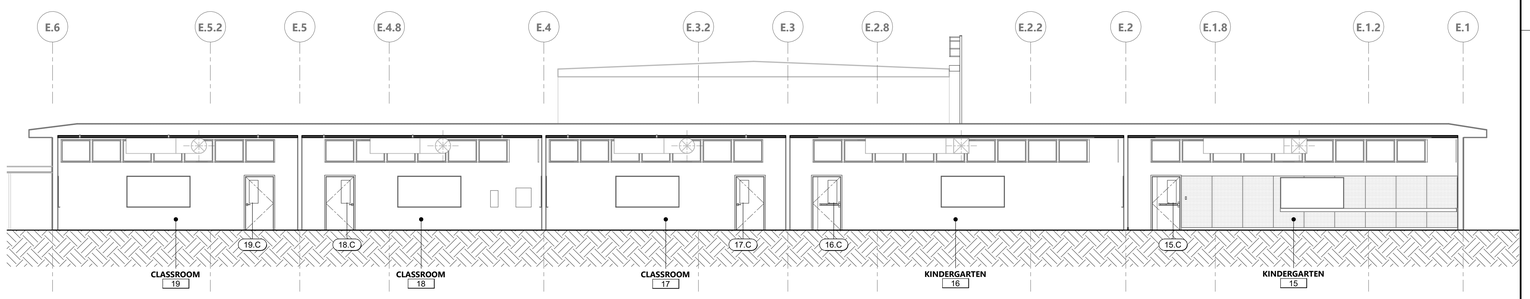
BUILDING D.2 - SECTION AA | 1/8" = 1'-0" | 7



BUILDING D.2 - SECTION BB | 1/8" = 1'-0" | 8



BUILDING E - SECTION BB | 1/8" = 1'-0" | 9

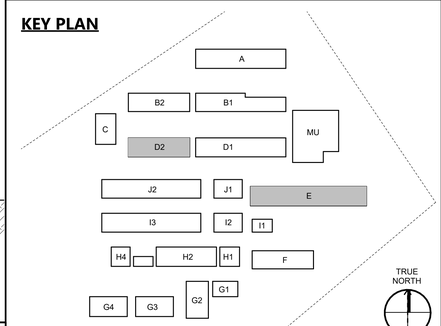


BUILDING E - SECTION AA | 1/8" = 1'-0" | 10

KEYNOTES

10.11.B WALL MOUNTED 4'x8' WHITEBOARDS, SEE DETAIL

KEY PLAN



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BUILDING SECTIONS D.2, E

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.

2A-402

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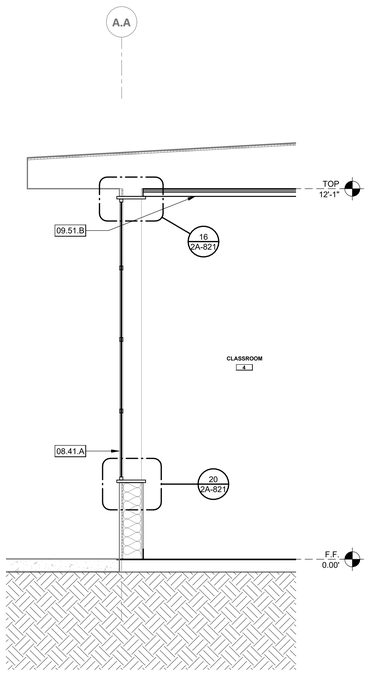
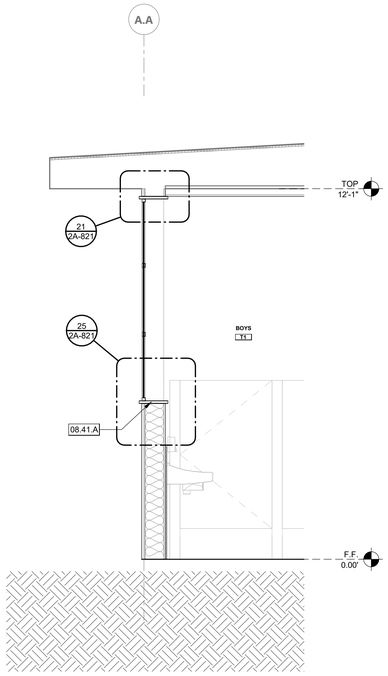
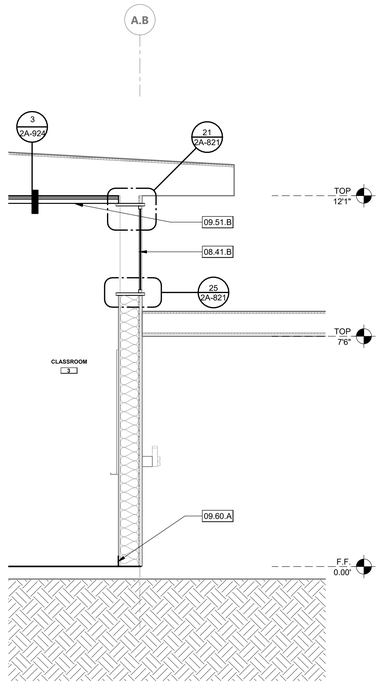


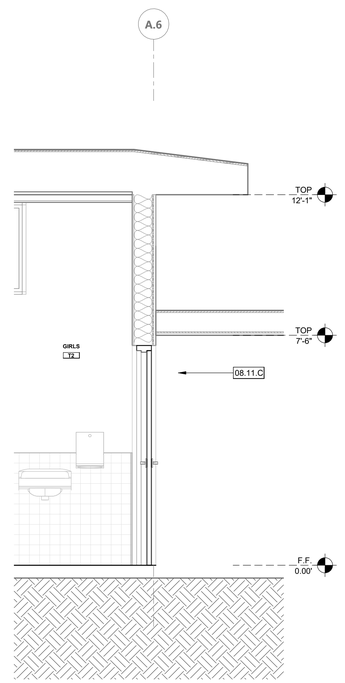
BUILDING A - WALL SECTION AA | 1/2" = 1'-0" | 1



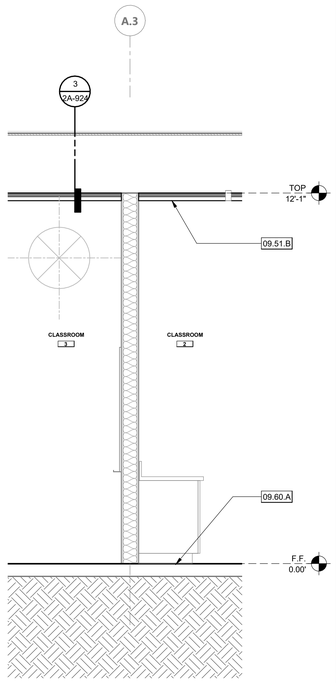
BUILDING A - WALL SECTION BB | 1/2" = 1'-0" | 2



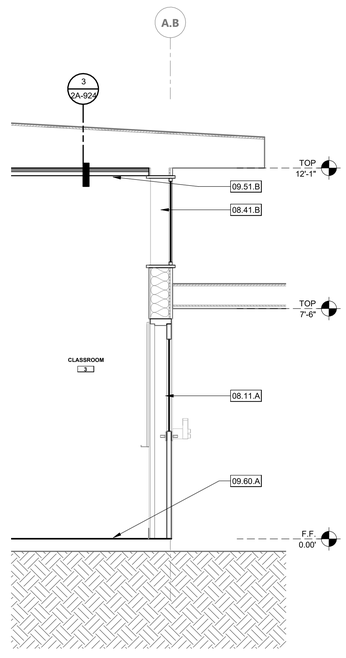
BUILDING A - WALL SECTION CC | 1/2" = 1'-0" | 3



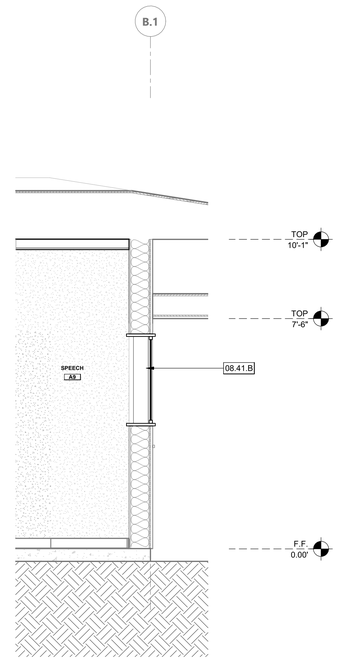
BUILDING A - WALL SECTION DD | 1/2" = 1'-0" | 4



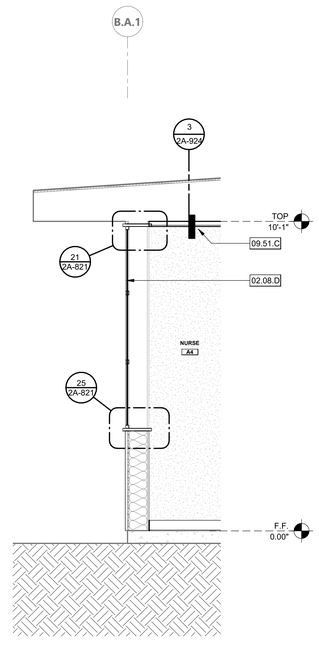
BUILDING A - WALL SECTION EE | 1/2" = 1'-0" | 5



BUILDING A - WALL SECTION FF | 1/2" = 1'-0" | 6



BUILDING B.1 - WALL SECTION AA | 1/2" = 1'-0" | 7



BUILDING B.1 - WALL SECTION BB | 1/2" = 1'-0" | 8

KEYNOTES

02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
08.11.A	(N) EXTERIOR FRP FLUSH DOOR WITH HALF NARROW LITE INSTALLED IN (E) WOOD OR HOLLOW METAL FRAME. PATCH (E) FRAME IF NEEDED
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.51.B	(N) 8'x4' DIRECT CEILING MOUNTPANELS WITH EXTRA DEEP HAT CHANNEL
09.51.C	(N) SUSPENDED ACOUSTICAL PANEL CEILING
09.60.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION

AGENCY APPROVAL DSA# 01-121400

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LICENSED ARCHITECT
MARINA 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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
WALL SECTIONS

INCREMENT: INC.2

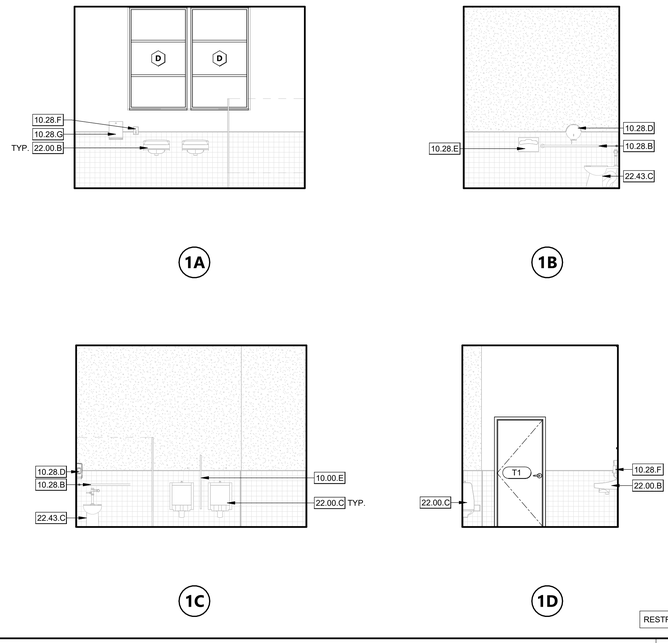
DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-403

DATE: JULY 30, 2024

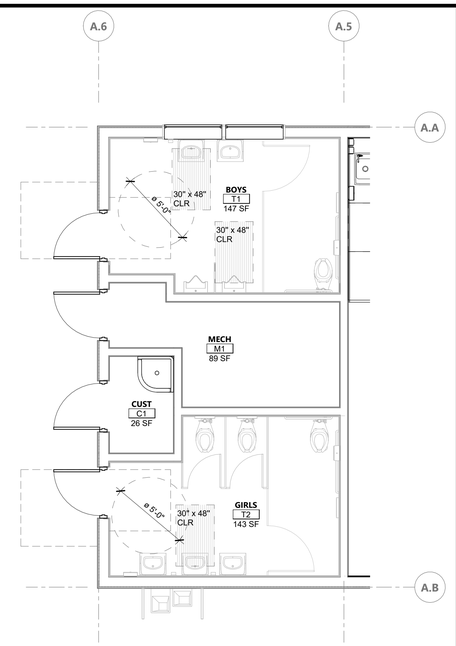
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:28:21 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt



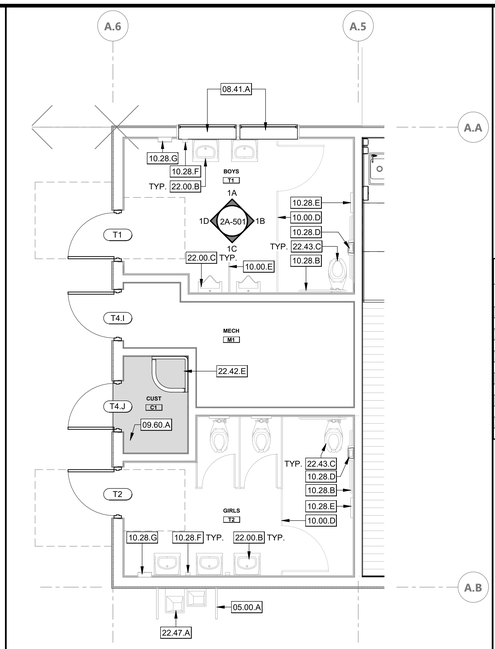
TYPICAL RESTROOM ENLARGED ELEVATIONS - BUILDING A | 1/4" = 1'-0" | 5

RESTROOM AGES 9-12



CLEARANCE PLAN - BUILDING A - TOILETS | 1/4" = 1'-0" | 2

RESTROOM AGES 9-12



BUILDING A - TOILETS FLOOR PLAN | 1/4" = 1'-0" | 1

RESTROOM AGES 9-12

KEYNOTES

02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
05.00.A	(E) METAL HANDRAIL TO REMAIN
05.52.A	(N) CANE DETECTING RAILS
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
09.60.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
10.00.C	(E) MIRROR TO REMAIN
10.00.D	(E) TOILET COMPARTMENTS TO REMAIN
10.00.E	(E) URINAL SCREEN TO REMAIN
10.28.B	(E) GRAB BAR TO REMAIN
10.28.D	(N) TOILET TISSUE DISPENSER
10.28.E	(E) TOILET SEAT COVER DISPENSER TO REMAIN
10.28.F	(E) SOAP DISPENSER TO REMAIN
10.28.G	(E) PAPER TOWEL DISPENSER TO REMAIN
22.00.B	(E) SINK TO REMAIN
22.00.C	(E) URINAL TO REMAIN
22.42.E	(N) DRINKING FOUNTAIN WITH LOCATION SIGN ABOVE
22.45.A	(E) DRINKING FOUNTAIN TO REMAIN
22.47.A	(E) SEMI-RECESSED DRINKING FOUNTAIN TO REMAIN

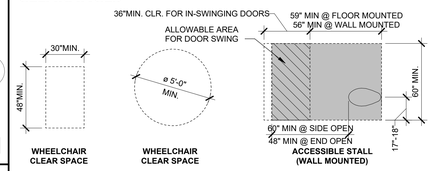
CLEARANCE TO FINISH SURFACE

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.	36" MAX.	36" MAX.	
DRINKING FOUNTAIN SPOUT HEIGHT	36" MAX.	36" MAX.	36" MAX.	
DRINKING FOUTAIN KNEE CLEARANCE	27" MIN.	27" MIN.	27" MIN.	
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	
LAVATORY/SINK TOP HEIGHT	34" MAX.	29" MAX.	29" MAX.	
RAMP/STAIR HANDRAIL HEIGHT	34"-38"	34"-38"	34"-38"	
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"-17"	
TOP OF GRAB BAR HEIGHT	33"-36"	20"-25"	25"-27"	
URINAL FLUSH HANDLE HEIGHT	44" MAX.	37" MAX.	37" MAX.	
URINAL LIP HEIGHT	17" MAX.	15" MAX.	15" MAX.	

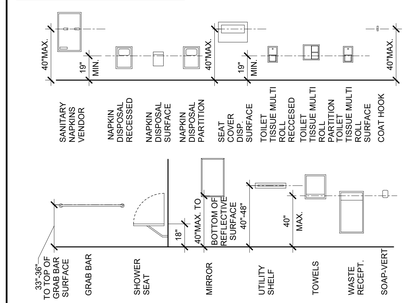
LEGEND - ACCESSIBLE HEIGHTS

FOR ADDITIONAL ACCESS REQUIREMENTS, SEE

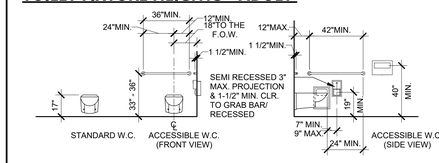
CLEARANCES

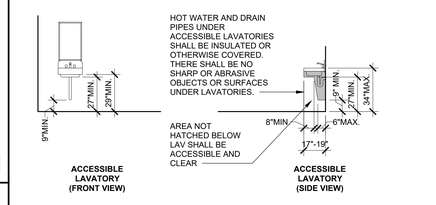


MOUNTING HEIGHTS

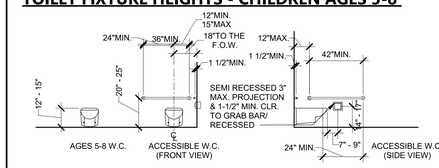


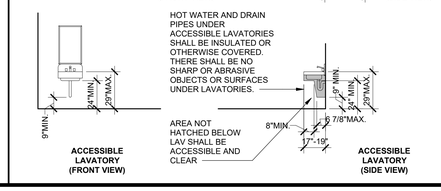
TOILET FIXTURE HEIGHTS - ADULT

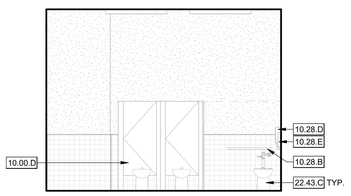


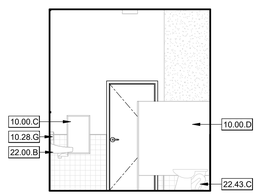


TOILET FIXTURE HEIGHTS - CHILDREN AGES 5-8









GIRLS TS RESTROOM ENLARGED ELEVATIONS - BUILDING D.2 | 1/4" = 1'-0" | 6

RESTROOM AGES 9-12

CLEARANCE PLAN - BUILDING D.2 - TOILETS | 1/4" = 1'-0" | 4

RESTROOM AGES 9-12

ENLARGED FLOOR PLAN - BUILDING D.2 | 1/4" = 1'-0" | 3

RESTROOM AGES 9-12

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 1G 900 FOR TYPICAL FIXTURE AND ACCESSORY PLACEMENT DIMENSIONS

AGENCY APPROVAL DSA# 01-121400

196

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

REVISIONS

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SHEET TITLE
RESTROOM PLAN ENLARGEMENTS

INCREMENT: INC.2

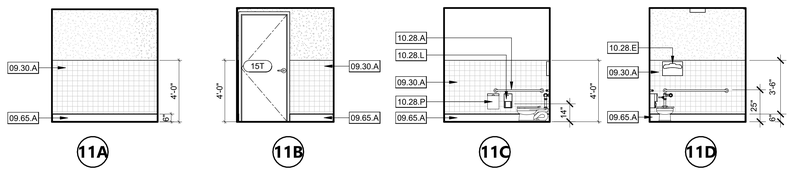
DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-501

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

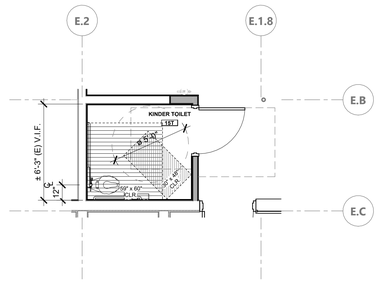
DATE PLOTTED: 7/30/2024 1:28:27 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_rvt



11A 11B 11C 11D

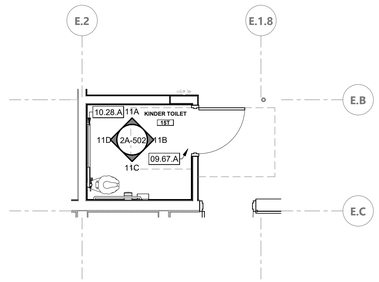
TOILET AGES 5-8

RESTROOM ENLARGED ELEVATIONS - BUILDING E | 1/4" = 1'-0" | **11**



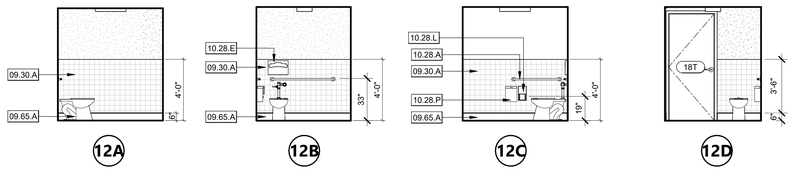
TOILET AGES 5-8

CLEARANCE PLAN-BLDG E-KINDER TOILET | 1/4" = 1'-0" | **6**



TOILET AGES 5-8

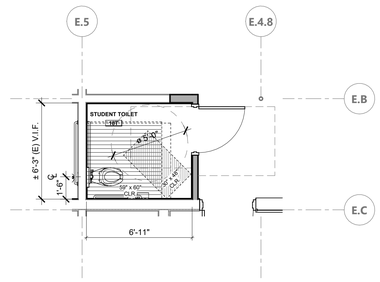
BUILDING E - KINDER TOILET | 1/4" = 1'-0" | **1**



12A 12B 12C 12D

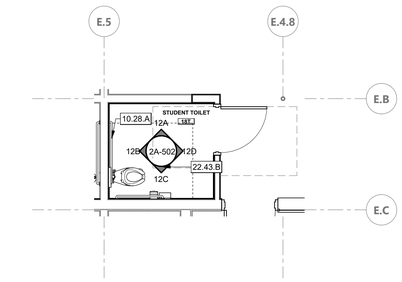
TOILET AGES 9-12

RESTROOM ENLARGED ELEVATIONS - BUILDING E | 1/4" = 1'-0" | **12**



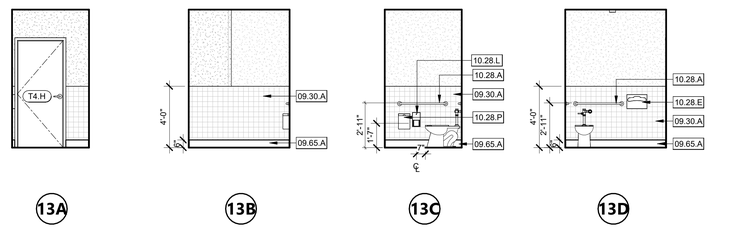
TOILET AGES 9-12

CLEARANCE PLAN-BLDG E-STUDENT TOILET | 1/4" = 1'-0" | **7**



TOILET AGES 9-12

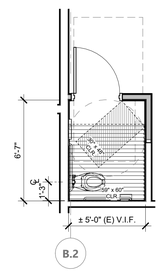
BUILDING E - STUDENT TOILET | 1/4" = 1'-0" | **2**



13A 13B 13C 13D

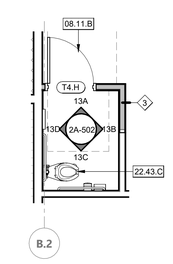
TOILET AGES 9-12

RESTROOM ENLARGED ELEVATIONS - BUILDING B.1 | 1/4" = 1'-0" | **13**



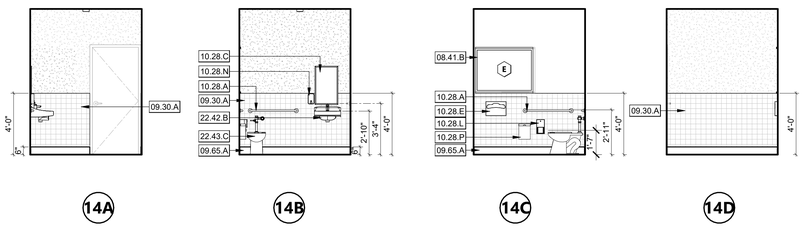
TOILET AGES 9-12

CLEARANCE PLAN - BLDG B.1 - NURSE TOILET | 1/4" = 1'-0" | **8**



TOILET AGES 9-12

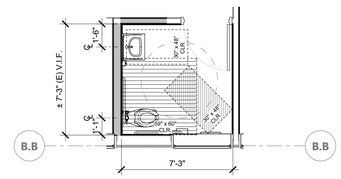
BUILDING B.1 - NURSE TOILET | 1/4" = 1'-0" | **3**



14A 14B 14C 14D

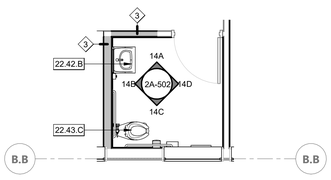
TOILET AGES ADULT

RESTROOM ENLARGED ELEVATIONS - BUILDING B.1 | 1/4" = 1'-0" | **14**



TOILET AGES ADULT

CLEARANCE PLAN - BLDG B.1 - STAFF TOILET | 1/4" = 1'-0" | **9**



TOILET AGES ADULT

BUILDING B.1 - STAFF TOILET | 1/4" = 1'-0" | **4**

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 1G 900 FOR TYPICAL FIXTURE AND ACCESSORY PLACEMENT DIMENSIONS

KEYNOTES

08.11.B	(N) WOOD DOOR AND FRAME
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.30.A	CERAMIC TILE. REFER TO FINISH SCHEDULE.
09.65.A	RESILIENT WALL BASE. REFER TO FINISH SCHEDULE.
10.28.A	GRAB BAR
10.28.C	MIRROR
10.28.E	(E) TOILET SEAT COVER DISPENSER TO REMAIN
10.28.L	SURFACE MOUNT TOILET TISSUE DISPENSER
10.28.N	SURFACE MOUNT SOAP DISPENSER
10.28.P	SURFACE MOUNT SANITARY NAPKIN DISPOSAL
22.42.B	NEW WALL MOUNT SINK, SEE PLUMBING DRAWINGS FOR MORE INFO.
22.43.B	ACC. WATER CLOSET, PER MOUNTING DETAILS AND PLUMBING DRAWINGS
22.43.C	(E) WATER CLOSET TO REMAIN

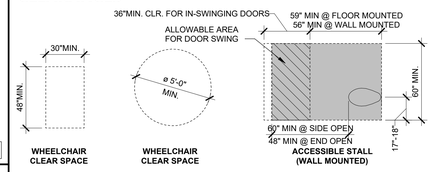
CLEARANCE TO FINISH SURFACE

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.	36" MAX.	36" MAX.	
DRINKING FOUTAIN BUBBLER HEIGHT	36" MAX.	36" MAX.	36" MAX.	
DRINKING FOUTAIN KNEE CLEARANCE	27" MIN.	27" MIN.	27" MIN.	
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	
LAVATORY/SINK TOP HEIGHT	34" MAX.	29" MAX.	29" MAX.	
RAMP/STAIR HANDRAIL HEIGHT	34"-38"	34"-38"	34"-38"	
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"-17"	
TOP OF GRAB BAR HEIGHT	33"-36"	20"-25"	25"-27"	
URINAL FLUSH HANDLE HEIGHT	44" MAX.	37" MAX.	37" MAX.	
URINAL LIP HEIGHT	17" MAX.	15" MAX.	15" MAX.	

LEGEND - ACCESSIBLE HEIGHTS

FOR ADDITIONAL ACCESS REQUIREMENTS, SEE

CLEARANCES



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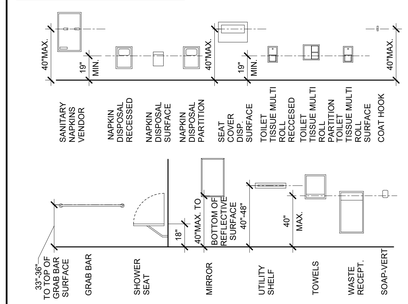
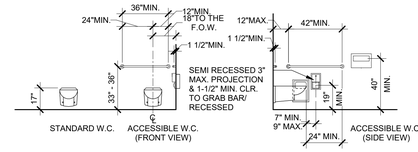
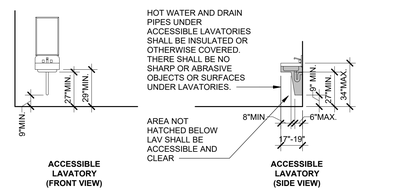
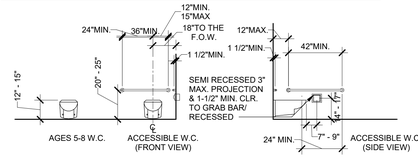


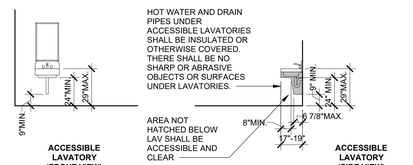
TOILET FIXTURE HEIGHTS - ADULT





TOILET FIXTURE HEIGHTS - CHILDREN AGES 5-8





AGENCY APPROVAL DSA# 01-121400

196

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PROFESSIONAL STAMP

LICENSED ARCHITECT MARINA ALVAREZ PAGA 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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
RESTROOM PLAN ENLARGEMENTS

INCREMENT: INC.2

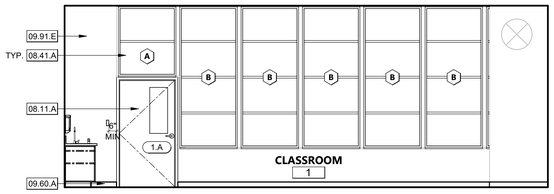
DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-502

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:28:35 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt



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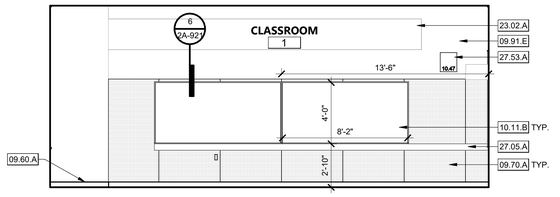

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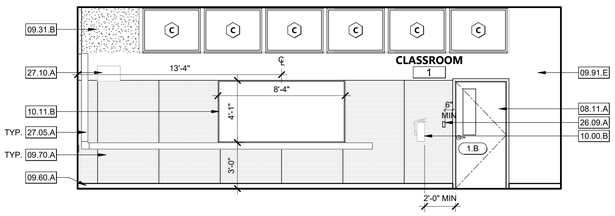

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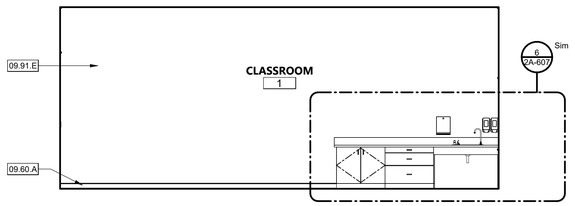

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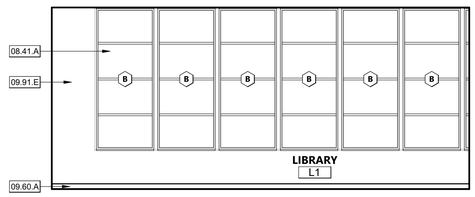
BUILDING A - TYPICAL CLASSROOM | 1/4" = 1'-0" | 1



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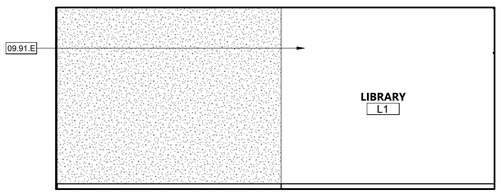

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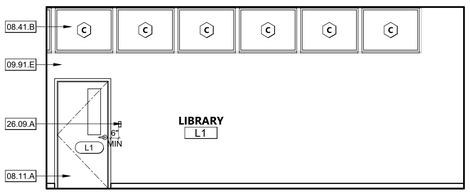

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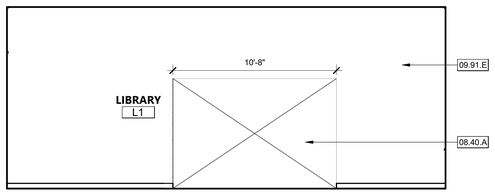


2D

BUILDING B.1 - LIBRARY | 1/4" = 1'-0" | 2

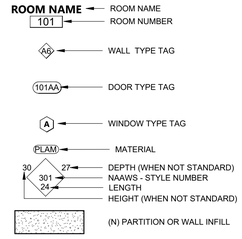
KEYNOTES

08.11.A	(N) EXTERIOR FRP FLUSH DOOR WITH HALF NARROW LITE INSTALLED IN (E) WOOD OR HOLLOW METAL FRAME. PATCH (E) FRAME IF NEEDED
08.40.A	(N) WALL OPENING.
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.31.B	(N) WALL INFILL AT (E) WINDOW OPENING. COORDINATE WALL FRAMING WITH (N) 2" CONDUIT PENETRATION PER TECHNOLOGY DRAWINGS.
09.60.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.70.A	TACKABLE WALL PANELS
09.91.E	ALL INT. SURFACE 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.B	WALL MOUNTED 4'x8' WHITEBOARDS, SEE DETAIL
23.02.A	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. PREPARE SURFACE FOR PAINTING
26.09.A	(N) LIGHT SWITCH, S.E.D.
27.05.A	(N) SURFACE RACEWAY. S.T.D.
27.10.A	(N) IDF RACK PER TECHNOLOGY SHEETS
27.53.A	CLOCK SYSTEM, BATTERY POWERED

LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET A-811.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.
3. LIGHT SWITCHES TO BE MOUNTED AT 45" A.F.F. TO THE TOP OF SWITCH PLATE.

INTERIOR ELEVATION LEGEND



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1936 Carlotta Drive
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MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
INTERIOR ELEVATIONS

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-601
DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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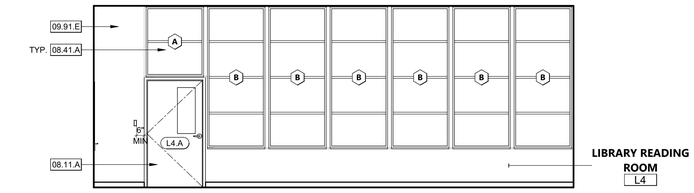

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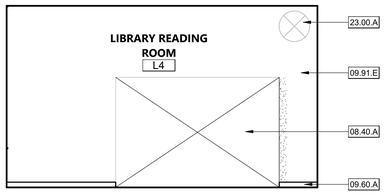

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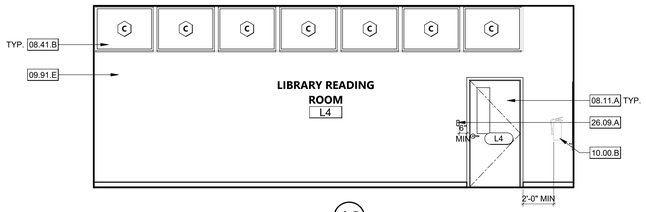

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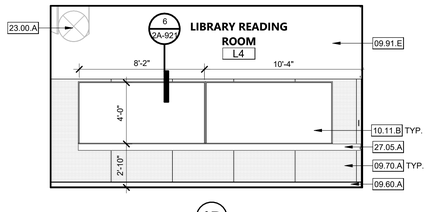

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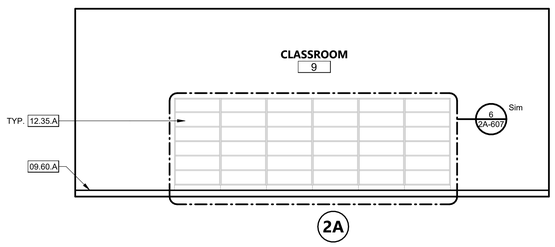
BUILDING B.1 - LIBRARY READING ROOM | 1/4" = 1'-0" | **1**



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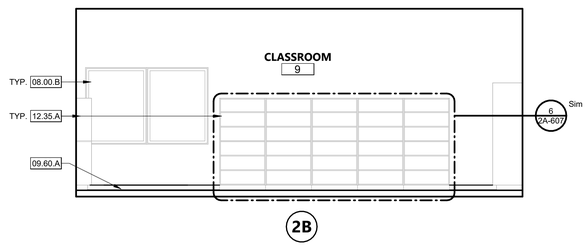

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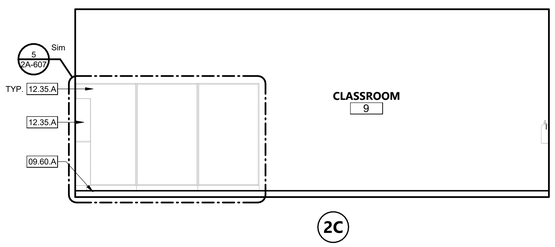

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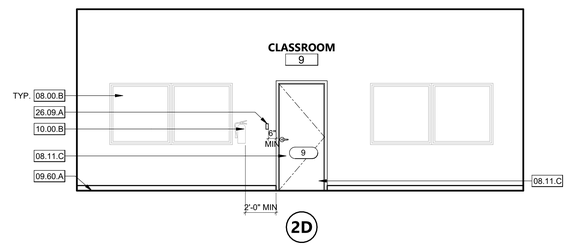

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BUILDING C - CLASSROOM 9 | 1/4" = 1'-0" | **2**

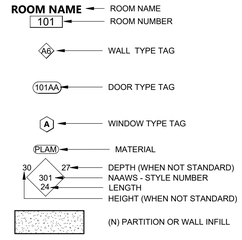
KEYNOTES

08.00.B	(E) WINDOW TO REMAIN
08.11.A	(N) EXTERIOR FRP FLUSH DOOR WITH HALF NARROW LITE INSTALLED IN (E) WOOD OR HOLLOW METAL FRAME. PATCH (E) FRAME IF NEEDED
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
08.40.A	(N) WALL OPENING.
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.60.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.70.A	TACKABLE WALL PANELS
09.91.E	ALL INT. SURFACE 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.B	WALL MOUNTED 4'x8' WHITEBOARDS, SEE DETAIL
12.35.A	NEW PLAM CASEWORK
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
26.09.A	(N) LIGHT SWITCH, S.E.D.
27.05.A	(N) SURFACE RACEWAY. S.T.D.

LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET A-811.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.
3. LIGHT SWITCHES TO BE MOUNTED AT 45" A.F.F. TO THE TOP OF SWITCH PLATE.

INTERIOR ELEVATION LEGEND



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PROFESSIONAL STAMP

LICENSED ARCHITECT
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C-36107
REN. 01-31-25
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MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
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SHEET TITLE
INTERIOR ELEVATIONS

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.

2A-602

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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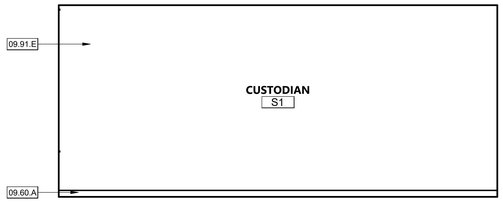

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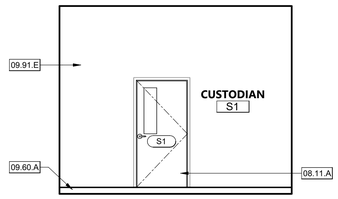

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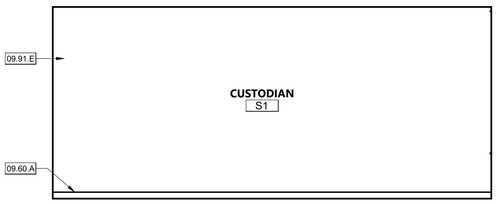

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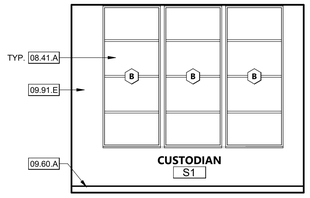

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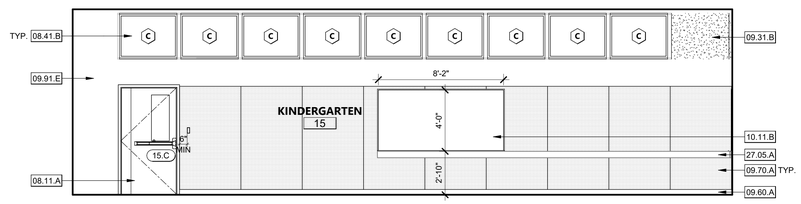
BUILDING D.2 - CUSTODIAN S1

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



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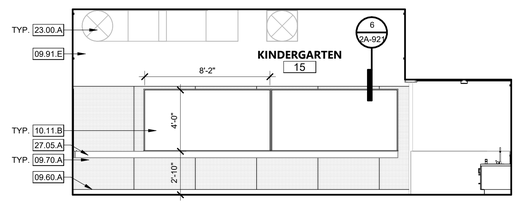

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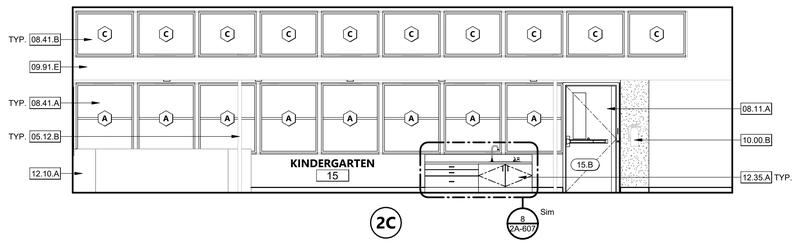

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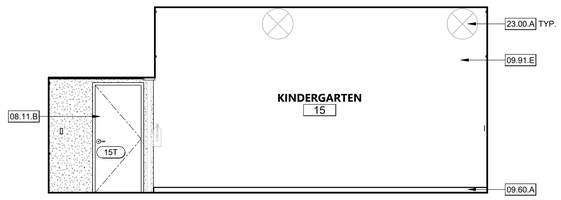


2D

BUILDING C - CLASSROOM 9

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

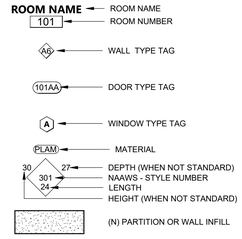
KEYNOTES

05.12.B	STEEL COLUMN TO REMAIN
08.11.A	(N) EXTERIOR FRP FLUSH DOOR WITH HALF NARROW LITE INSTALLED IN (E) WOOD OR HOLLOW METAL FRAME. PATCH (E) FRAME IF NEEDED
08.11.B	(N) WOOD DOOR AND FRAME
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.31.B	(N) WALL INFILL AT (E) WINDOW OPENING. COORDINATE WALL FRAMING WITH (N) 2" CONDUIT PENETRATION PER TECHNOLOGY DRAWINGS.
09.60.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.70.A	TACKABLE WALL PANELS
09.91.E	ALL INT. SURFACE 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.B	WALL MOUNTED 4'x8' WHITEBOARDS, SEE DETAIL
12.10.A	(E) FRAMING TO REMAIN. FINISH TO BE REMOVED AND REPLACED WITH INK & STAIN RESISTANT VINYL.
12.35.A	NEW PLAM CASEWORK
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
27.05.A	(N) SURFACE RACEWAY. S.T.D.

LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET A-802.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.

INTERIOR ELEVATION LEGEND



AGENCY APPROVAL DSA# 01-121400

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1936 Carlotta Drive
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MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
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SHEET TITLE
INTERIOR ELEVATIONS

INCREMENT: INC.2

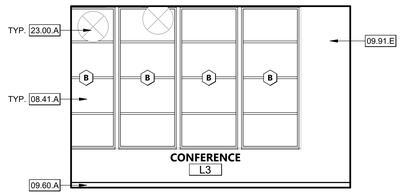
DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-603

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:28:46 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt



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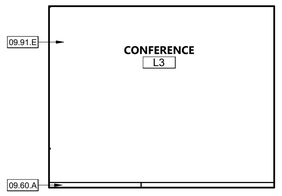

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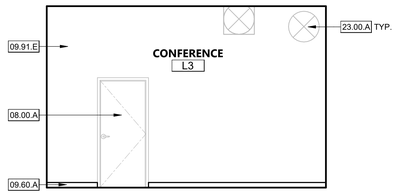

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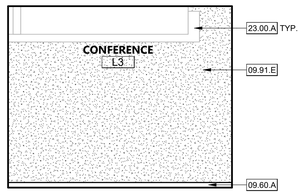
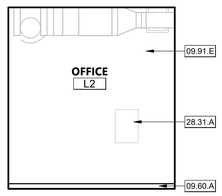


1D

BUILDING B.1 - CONFERENCE | 1/4" = 1'-0" | **1**



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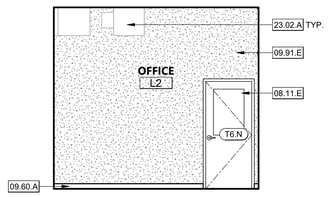

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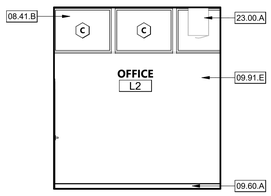

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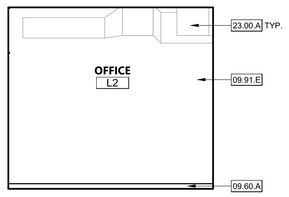

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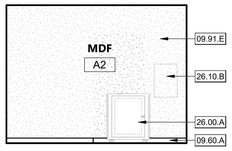
BUILDING B.1 - OFFICE | 1/4" = 1'-0" | **2**



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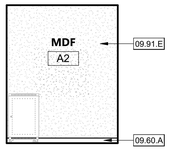

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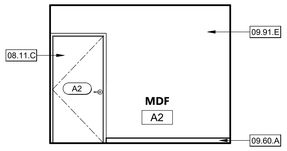

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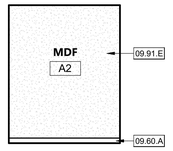

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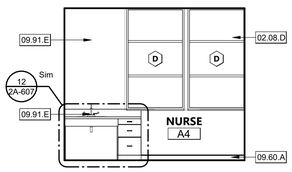
BUILDING B.1 - MDF | 1/4" = 1'-0" | **3**



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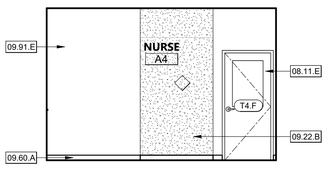

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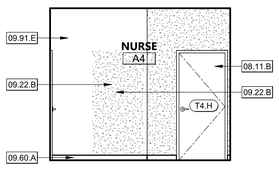

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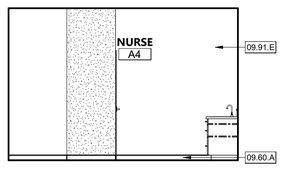
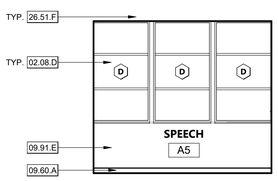


4D

BUILDING B.1 - NURSE | 1/4" = 1'-0" | **4**



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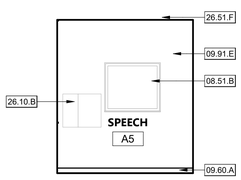

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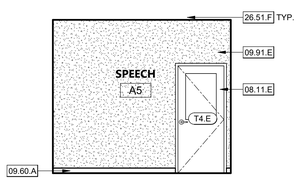

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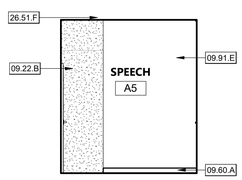


5D

BUILDING B.1 - SPEECH | 1/4" = 1'-0" | **5**

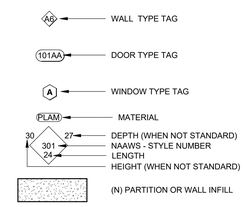
KEYNOTES

02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
08.00.A	(E) DOOR TO REMAIN
08.11.B	(N) WOOD DOOR AND FRAME
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
08.11.E	(N) DOOR WITH HALF LITE
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
08.51.B	FIXED HOLLOW METAL WINDOW
09.22.B	(N) INFILL WALL AND PATCH TO MATCH EXISTING
09.60.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.91.E	ALL INT. SURFACE TO BE PAINTED , SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
23.00.A	(E) MECHANICAL EQUIPMENT TO REMAIN
23.02.A	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. PREPARE SURFACE FOR PAINTING
26.00.A	(E) ELECTRICAL EQUIPMENT TO REMAIN
26.10.B	(E) ELECTRICAL PANEL
26.51.F	(N) LED RECESSED LIGHTS, S.E.D.
28.31.A	ELECTRICAL PANELS. REFER TO ELECTRICAL.

LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET A-802.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.

INTERIOR ELEVATION LEGEND



ROOM NAME
ROOM NUMBER
WALL TYPE TAG
DOOR TYPE TAG
WINDOW TYPE TAG
MATERIAL
DEPTH (WHEN NOT STANDARD)
NAAWS - STYLE NUMBER
LENGTH
HEIGHT (WHEN NOT STANDARD)
(N) PARTITION OR WALL INFILL

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SHEET TITLE
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DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-604

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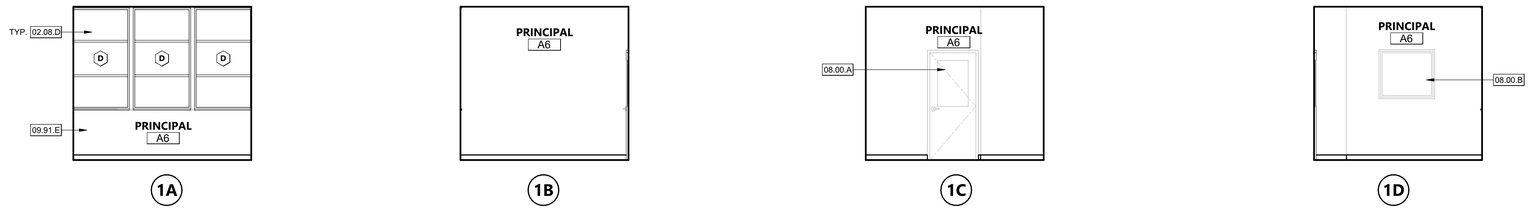
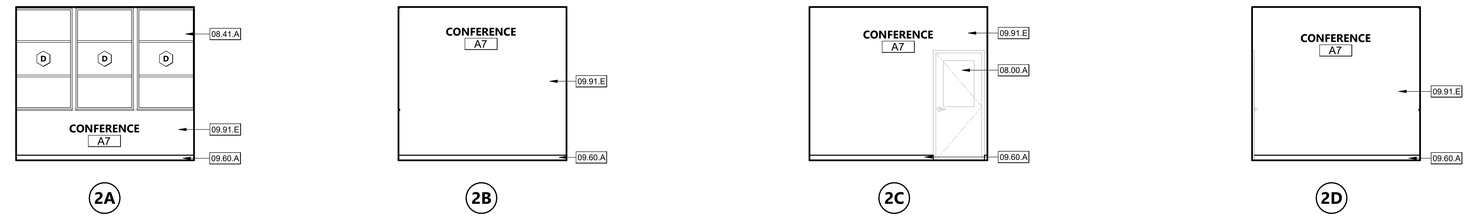
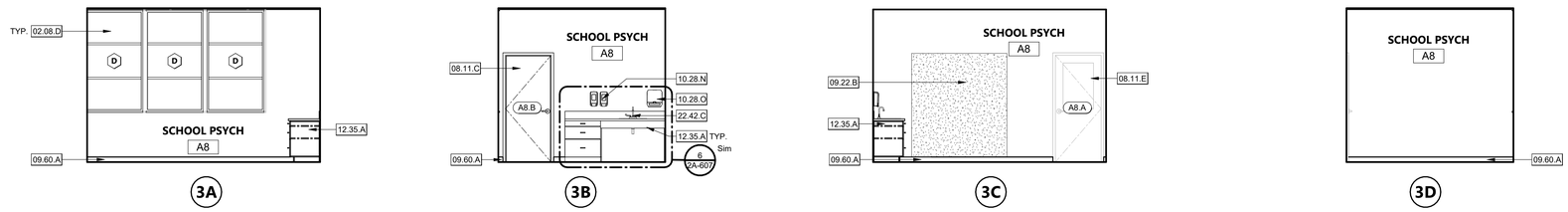


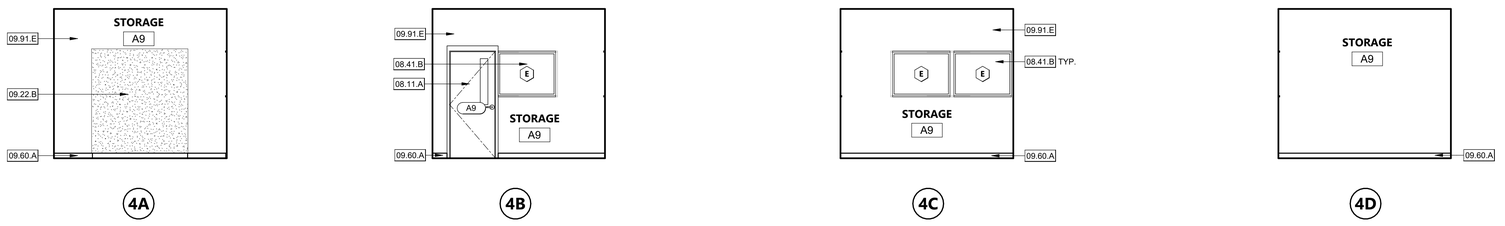
BUILDING B.1 - PRINCIPAL 1/4" = 1'-0" **1**



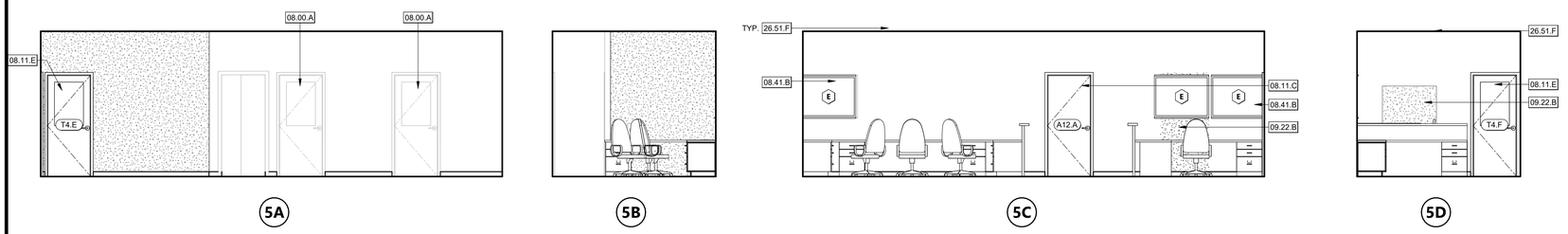
BUILDING B.1 - CONFERENCE 1/4" = 1'-0" **2**



BUILDING B.1 - SCHOOL PSYCH 1/4" = 1'-0" **3**



BUILDING B.1 - STORAGE 1/4" = 1'-0" **4**



BUILDING B.1 - ADMIN 1/4" = 1'-0" **5**

KEYNOTES

02.08.D	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT (E) OPENING AND PREPARE FOR NEW WINDOW
08.00.A	(E) DOOR TO REMAIN
08.00.B	(E) WINDOW TO REMAIN
08.11.A	(N) EXTERIOR FRP FLUSH DOOR WITH HALF NARROW LITE INSTALLED IN (E) WOOD OR HOLLOW METAL FRAME. PATCH (E) FRAME IF NEEDED
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
08.11.E	(N) DOOR WITH HALF LITE
08.41.A	(N) ALUMINUM STOREFRONT WINDOW, SEE DETAILS
08.41.B	(N) ALUMINUM CLERESTORY WINDOW
09.22.B	(N) INFILL WALL AND PATCH TO MATCH EXISTING
09.60.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.91.E	ALL INT. SURFACE TO BE PAINTED , SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
10.28.N	SURFACE MOUNT SOAP DISPENSER
10.28.O	SURFACE MOUNT PAPER TOWEL DISPENSER
12.35.A	NEW PLAM CASEWORK
22.42.C	ACCESSIBLE SINK, S.MP.D.
26.51.F	(N) LED RECESSED LIGHTS, S.E.D.

LEGEND - INTERIOR ELEVATION GENERAL NOTES

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2. ALL STEEL TO BE GALVANIZED AND PAINTED.

INTERIOR ELEVATION LEGEND

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SHEET NO.
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DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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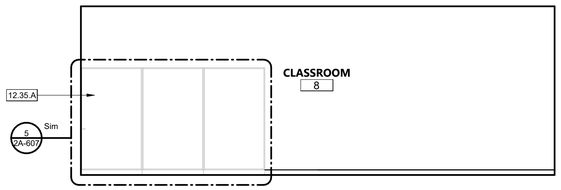

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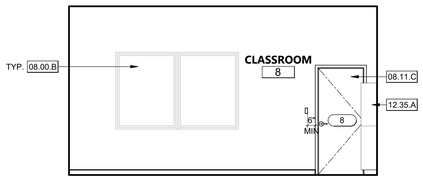

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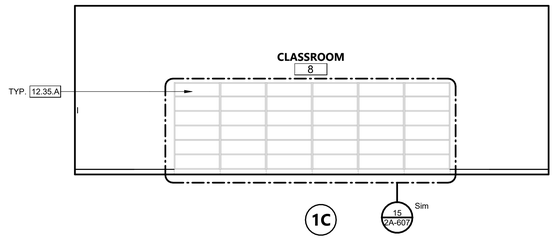

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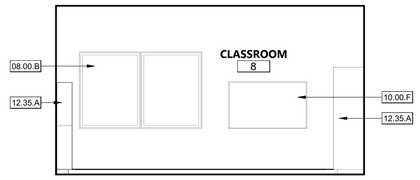


1D

BUILDING C - CLASSROOM 8 | 1/4" = 1'-0" | 1

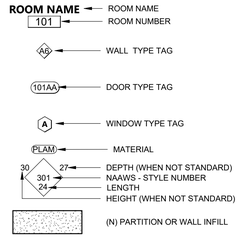
KEYNOTES

08.00.B	(E) WINDOW TO REMAIN
08.11.C	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME. PATCH (E) FRAME IF NEEDED
10.00.F	(E) WHITEBOARDS TO REMAIN
12.35.A	NEW PLAM CASEWORK

LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET A-802.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.

INTERIOR ELEVATION LEGEND



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REVISIONS

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
INTERIOR ELEVATIONS

INCREMENT: INC.2

DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.

2A-606

DATE: JULY 30, 2024

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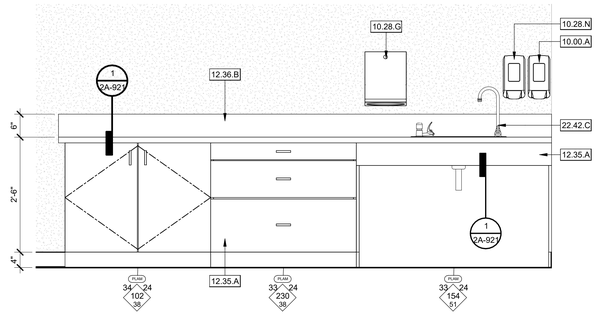
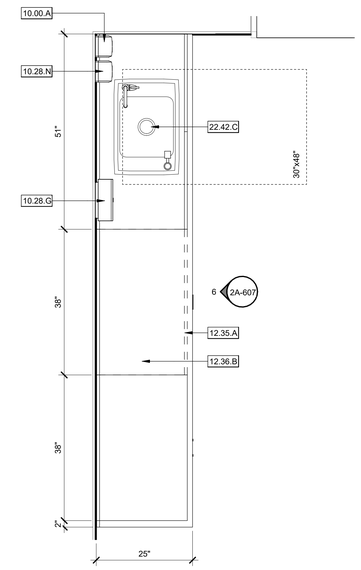
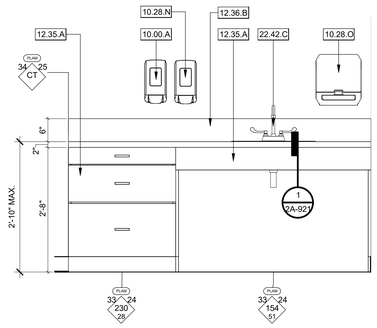


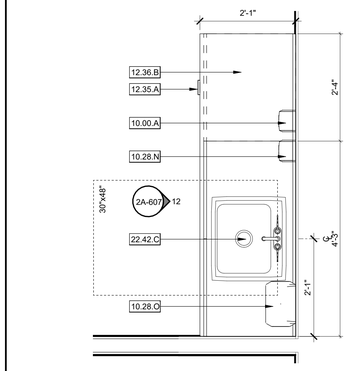
TYP. CLASSROOM CASEWORK - ELEVATION 3/4" = 1'-0" **6**



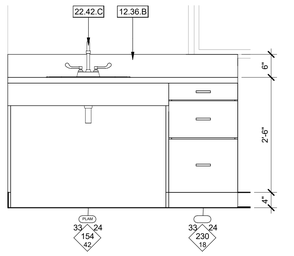
TYP. CLSRM. CASEWK. - ENLARGE PLAN 3/4" = 1'-0" **2**



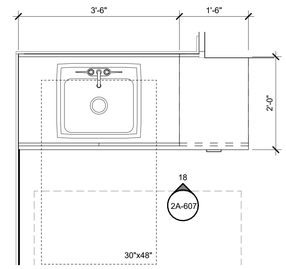
PSYCH. CASEWORK - ELEVATION 3/4" = 1'-0" **12**



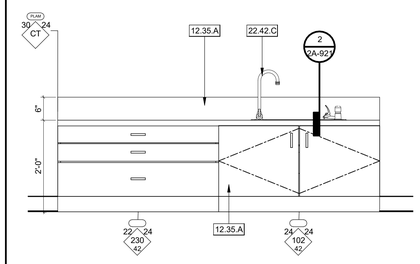
PSYCH. CASEWORK - ENLARGED PLAN 3/4" = 1'-0" **7**



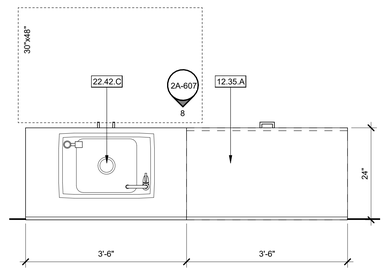
NURSE CASEWORK - ELEVATION 3/4" = 1'-0" **18**



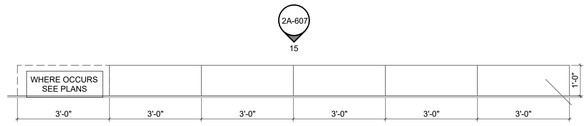
NURSE CASEWORK - ENLARGED PLAN 3/4" = 1'-0" **13**



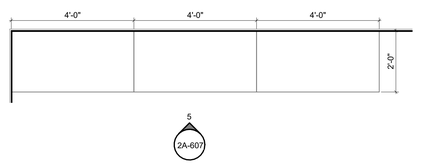
ALT. CLASSROOM CASEWK. - ELEVATION 3/4" = 1'-0" **8**



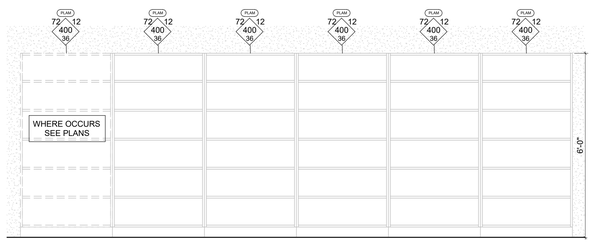
ALT. CLSRM. CASEWK. - ENLARGE PLAN 3/4" = 1'-0" **3**



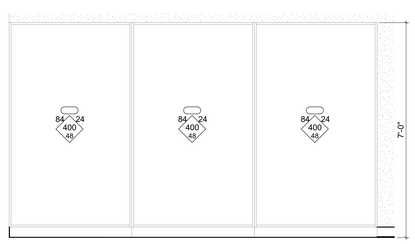
BUILDING C - SHELF CASEWORK - ENLARGED PLAN 1/2" = 1'-0" **14**



BUILDING C - TALL CASEWORK - ENLARGED PALN 1/2" = 1'-0" **4**



BUILDING C - SHELF CASEWORK - ELEVATION 1/2" = 1'-0" **15**



BUILDING C - TALL CASEWORK - ELEVATION 1/2" = 1'-0" **5**

KEYNOTES

10.00.A	(E) SALVAGED HAND SANITIZER DISPENSER REINSTALLED
10.28.G	(E) PAPER TOWEL DISPENSER TO REMAIN
10.28.N	SURFACE MOUNT SOAP DISPENSER
10.28.O	SURFACE MOUNT PAPER TOWEL DISPENSER
12.35.A	NEW PLAM CASEWORK
12.36.B	PLASTIC LAMINATED COUNTERTOP. 6" BACKSPLASH, TYP.
22.42.C	ACCESSIBLE SINK, S.MP.D.

LEGEND - INTERIOR ELEVATION GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET A-811.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.
3. LIGHT SWITCHES TO BE MOUNTED AT 45" A.F.F. TO THE TOP OF SWITCH PLATE.

INTERIOR ELEVATION LEGEND

ROOM NAME — ROOM NAME
101 — ROOM NUMBER
A9 — WALL TYPE TAG
101AA — DOOR TYPE TAG
A — WINDOW TYPE TAG
PLAM — MATERIAL
30 / 24 — 27 DEPTH (WHEN NOT STANDARD); 301 NAAWS - STYLE NUMBER; 24 LENGTH; HEIGHT (WHEN NOT STANDARD)
(N) PARTITION OR WALL INFILL

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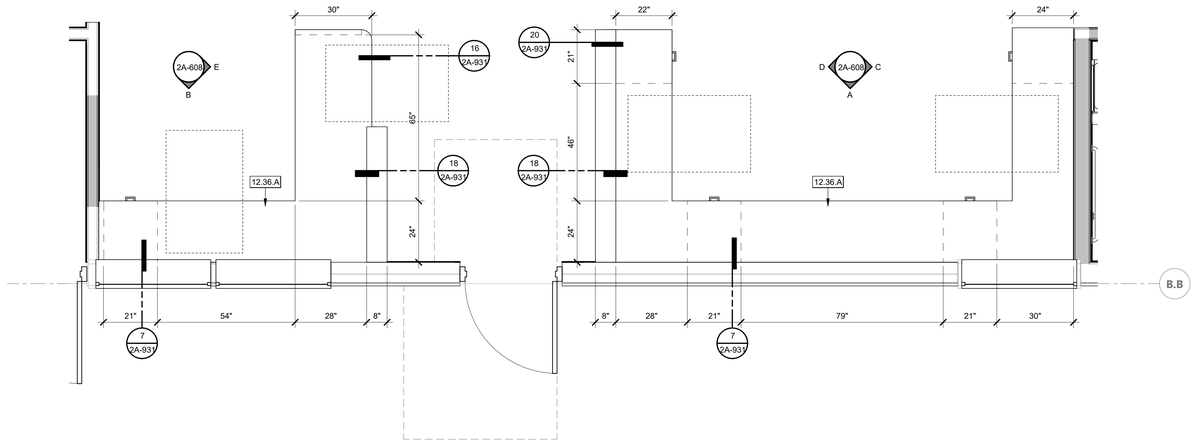
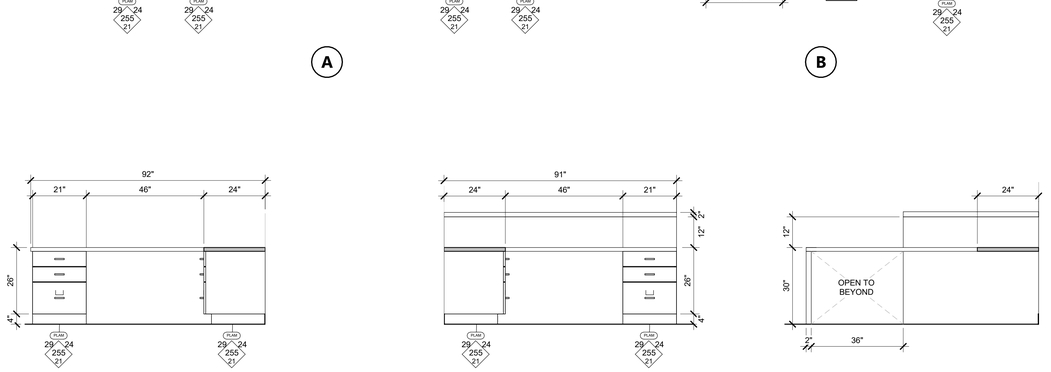


ENLARGED FLOOR PLAN - BUILDING B.1 - ADMIN | 1/2" = 1'-0" | 1



BUILDING B.1 - ADMIN CASEWORK ELEVATIONS | 1/4" = 1'-0" | 2

KEYNOTES

09.60.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
12.35.A	NEW PLAM CASEWORK
12.36.A	TRANSACTION COUNTERTOP. SOLID SURFACE, TYP

LEGEND - INTERIOR ELEVATION GENERAL NOTES

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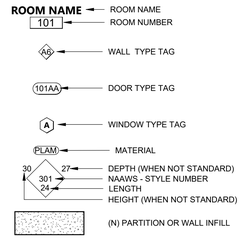
INTERIOR ELEVATION LEGEND



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DRAWN BY: Author JOB NUMBER: 23119.01

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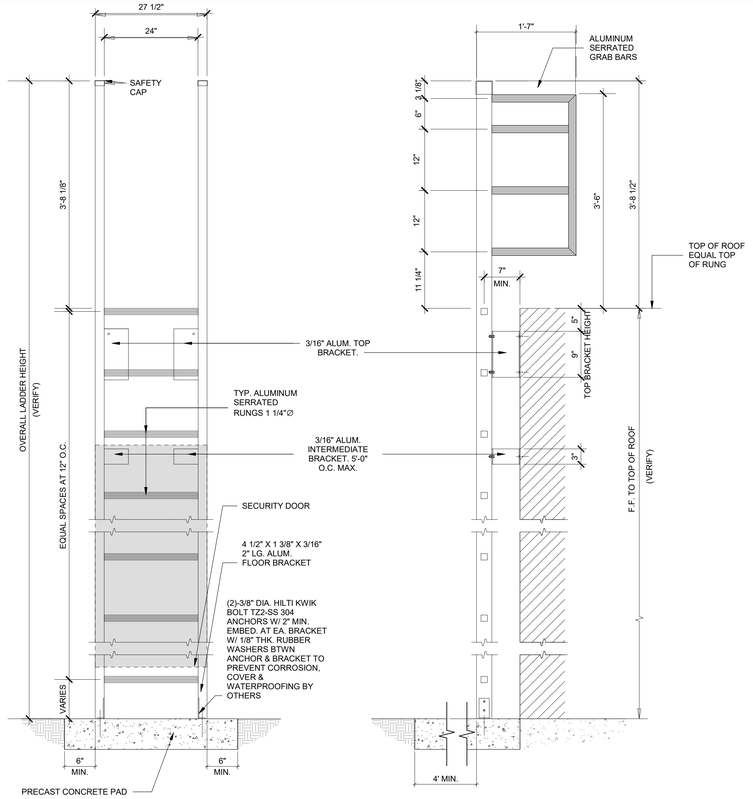
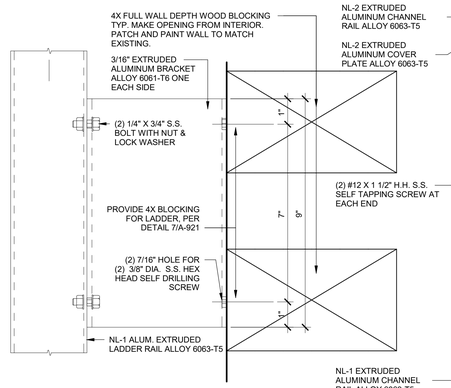
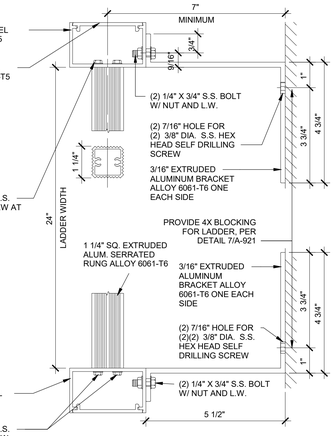


FRONT ELEVATION
N.T.S.

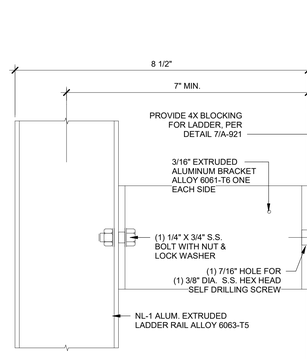


SIDE ELEVATION
N.T.S.

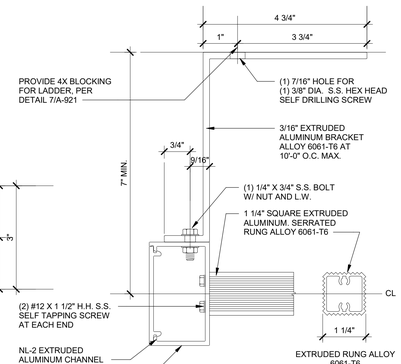


OFF FLOOR/ TOP BRACKET SIDE VIEW

OFF FLOOR/ TOP BRACKET TOP VIEW

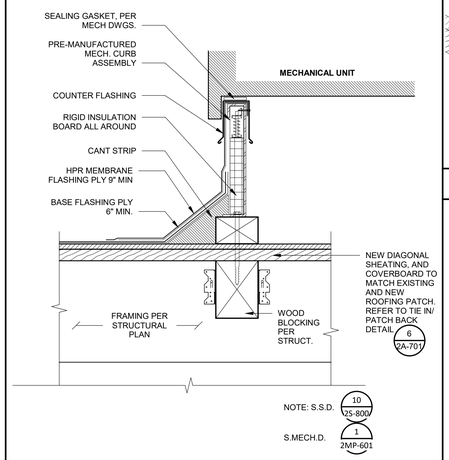


INTERMEDIATE BRACKET SIDE VIEW

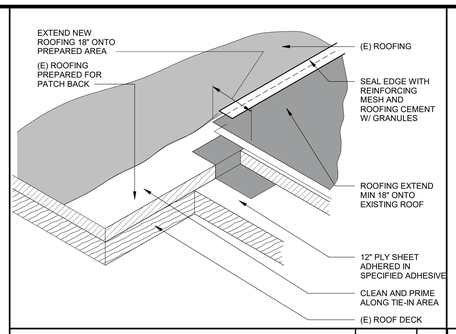


INTERMEDIATE BRACKET TOP VIEW

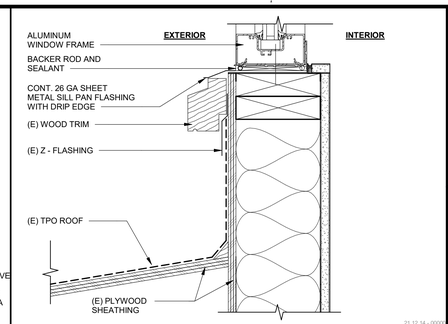
EXTERIOR ROOF ACCESS LADDER W/ SECURITY DOOR | N.T.S. | 18



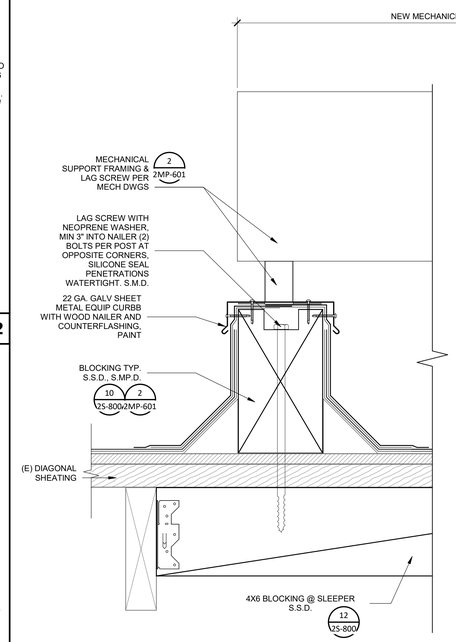
MECH CURB AT ROOF | 1 1/2" = 1'-0" | 12

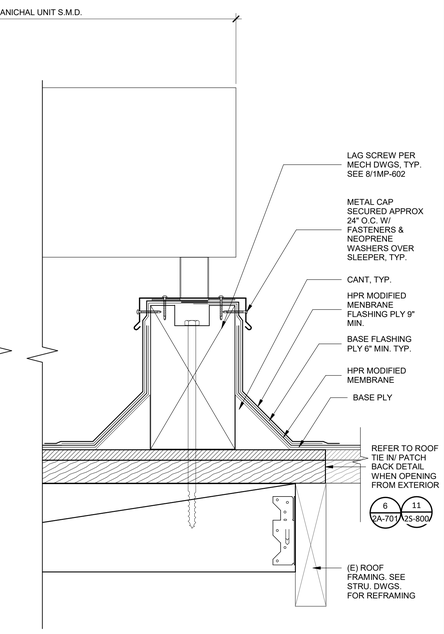


TIE IN / PATCH BACK | NTS | 6

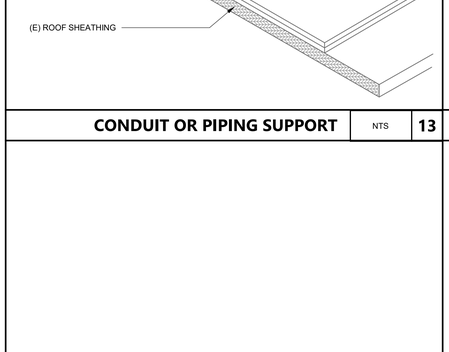


CLERESTORY @ ROOF | 3" = 1'-0" | 1

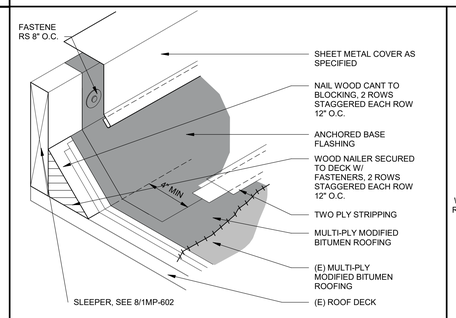




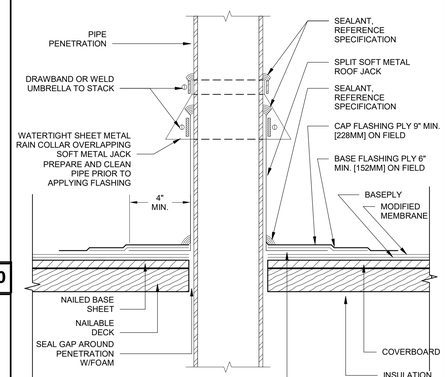
ROOF MECHANICAL EQUIPMENT SUPPORT | 3" = 1'-0" | 3



CONDUIT OR PIPING SUPPORT | NTS | 13

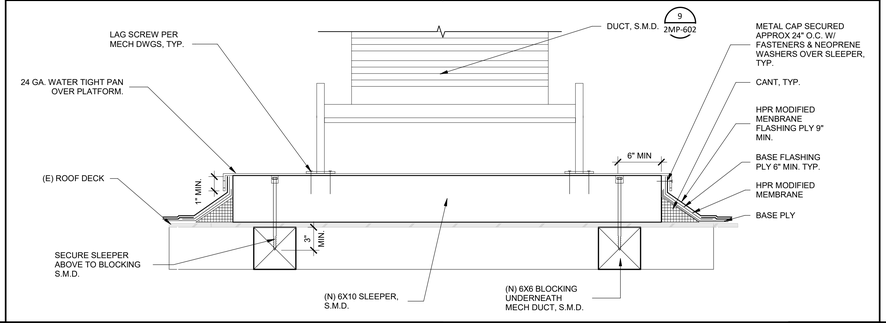


MEMBRANE ON SLEEPER | NTS | 10



NOTE:
REFERENCE SPECIFICATION FOR SURFACING, MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD

SEE MECH. DWGS 1/2MP-602



MECHANICAL PLATFORM | 1 1/2" = 1'-0" | 11

ROOF PENETRATION | N.T.S. | 5

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San Francisco, CA 94104
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ELECTRICAL ENGINEER
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3533 York Ln.
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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION
	12-19-2023	DSA SUBMITTAL

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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
EXTERIOR DETAILS

JNC 2

DRAWN BY: MP JOB NUMBER: 23119.01

SHEET NO.
2A-701

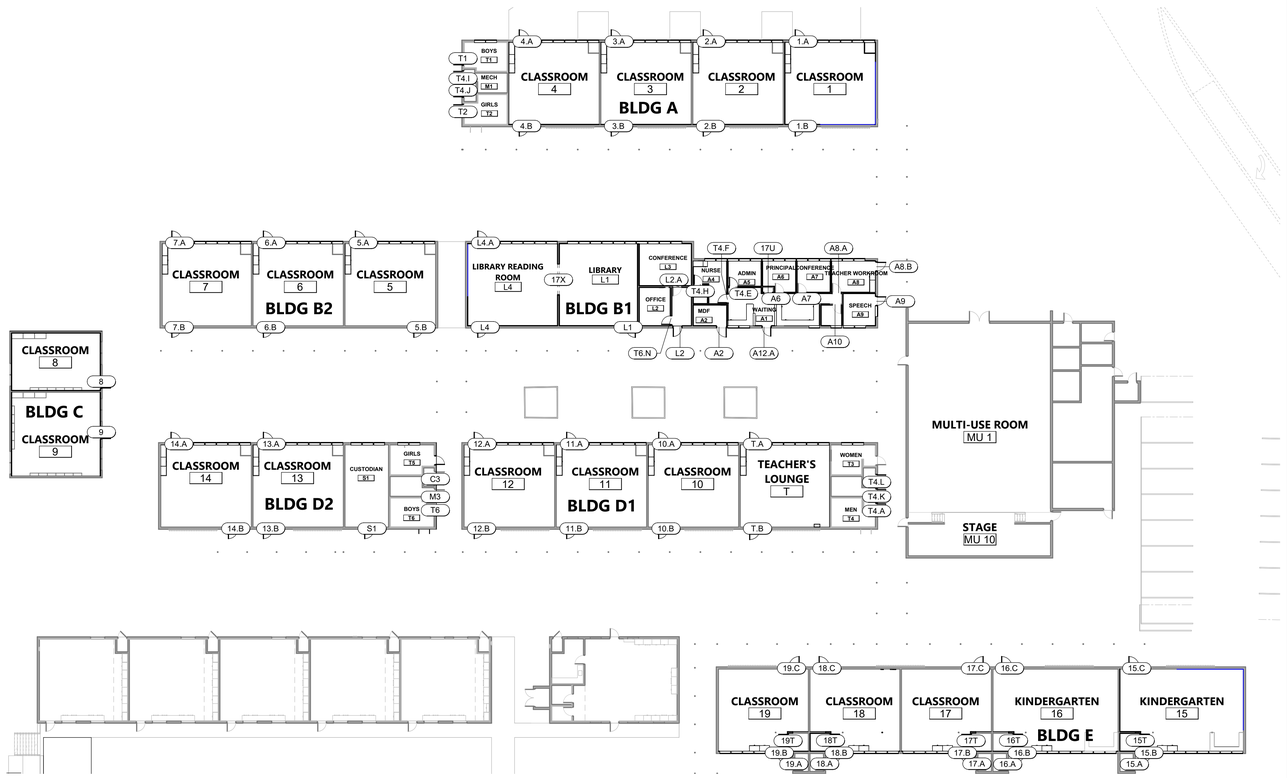
DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 8/7/2024 3:30:03 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

DOOR SCHEDULE - INC 2

MARK	ROOM	FIRE RATING	SIZE			DOOR			FRAME			DETAILS			PANIC HARDWARE	HARDWARE GROUP	NOTES
			WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL			
L2	HALL	NR	3'-0"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821		-		
BUILDING A																	
1.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
1.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
2.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
2.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
3.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
3.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
4.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
4.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
T1	BOYS	NR	3'-0"	7'-0"	1 3/4"	A	(E)	P	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	05	LOUVERS
T2	GIRLS	NR	3'-0"	7'-0"	1 3/4"	A	(E)	P	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	04	LOUVERS
T4.I	MECH	NR	3'-0"	7'-0"	1 3/4"	A	(E)	P	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	LOUVERS
T4.J	CUST	NR	3'-0"	7'-0"	1 3/4"	A	(E)	P	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
BUILDING B																	
5.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
5.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
6.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
6.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
7.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
7.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
A2	MDF	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	07	LOUVERS
A8.B	TEACHER WORKROOM	NR	3'-0"	7'-0"	1 3/4"	A	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
A9	SPEECH	NR	3'-0"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
A12.A	RECORDS	NR	3'-0"	7'-0"	1 3/4"	A	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	06	
L1	LIBRARY	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
L4	LIBRARY READING ROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	03	
L4.A	LIBRARY READING ROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
T4.E	ADMIN	NR	3'-0"	7'-0"	1 3/4"	B	FRP	FF	F	WD	PW	6/1A-901	8/1A-901	2/2A-821	-	-	
T4.F	NURSE	NR	3'-0"	7'-0"	1 3/4"	B	FRP	FF	F	WD	PW	6/1A-901	8/1A-901	2/2A-821	-	-	
T4.H	TOILET	NR	3'-0"	7'-0"	1 3/4"	A	FRP	FF	C	WD	PW	6/1A-901	8/1A-901	2/2A-821	-	08	LOUVERS
T6.N	OFFICE	NR	3'-0"	7'-0"	1 3/4"	B	FRP	FF	C	WD	PW	6/1A-901	8/1A-901	2/2A-821	-	-	
BUILDING C																	
8	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	A	(E)	P	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
9	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	A	(E)	P	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
BUILDING D																	
10.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
10.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
11.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
11.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
12.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
12.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
13.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
13.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
14.A	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
14.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
S1	CUSTODIAN	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	06	
T4.A	MEN	NR	3'-0"	7'-0"	1 3/4"	DD	(E)	P	A (E)	HM (E)	PM	6/2A-821	8/2A-821	2/2A-821	-	05	LOUVERS
T4.K	MECH	NR	3'-0"	7'-0"	1 3/4"	DD	(E)	P	A (E)	HM (E)	PM	6/2A-821	8/2A-821	2/2A-821	-	05	LOUVERS
T4.L	CUST	NR	3'-0"	7'-0"	1 3/4"	DD	(E)	P	A (E)	HM (E)	PM	6/2A-821	8/2A-821	2/2A-821	-	04	
T5	GIRLS	NR	3'-0"	7'-0"	1 3/4"	NN	(E)	P	A (E)	HM (E)	PM	6/2A-821	8/2A-821		-		
T.A	TEACHER'S LOUNGE	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
T.B	TEACHER'S LOUNGE	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
BUILDING E																	
15.B	KINDERGARTEN	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	P.H.	02	
15.C	KINDERGARTEN	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	P.H.	02	
15T	KINDER TOILET	NR	3'-0"	7'-0"	1 3/4"	A	FRP	FF	A	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	08	LOUVERS
16.B	KINDERGARTEN	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	P.H.	02	
16.C	KINDERGARTEN	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	P.H.	02	
16T	KINDER TOILET	NR	3'-0"	7'-0"	1 3/4"	A	FRP	FF	A	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	08	LOUVERS
17.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
17.C	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
17T	STUDENT TOILET	NR	3'-0"	7'-0"	1 3/4"	A	FRP	FF	A	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	08	LOUVERS
18.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
18.C	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
18T	STUDENT TOILET	NR	3'-0"	7'-0"	1 3/4"	A	FRP	FF	A	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	08	LOUVERS
19.B	CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
19.C	CLASSROOM	NR	3'-8"	7'-0"	1 3/4"	B	FRP	FF	C (E)	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	01	
19T	STUDENT TOILET	NR	3'-0"	7'-0"	1 3/4"	A	FRP	FF	A	WD	PW	6/2A-821	8/2A-821	2/2A-821	-	08	LOUVERS



FLOOR PLAN - DOOR SCHEDULE | 3/64" = 1'-0" | 1

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

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

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

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.

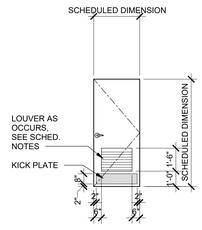
DH7) ON THE PUSH-SIDE OF THE DOOR, PROVIDE SMOOTH SURFACE WITHIN 10" OF FINISH FLOOR OR GROUND, FOR FULL WIDTH OF DOOR PER 11B-404.2.10.

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

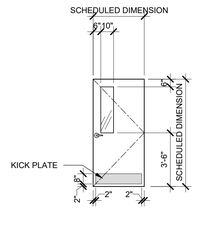
DH9) INDICATE ON PLANS AND/OR SPECIFICATIONS THAT HARDWARE COMPLIES WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
-CROSS BARS FOR EXIT DEVICES SHALL EXTEND ACROSS NOT LESS THAN HALF OF THE DOOR OR GATE WIDTH.
-ENDS OF CROSS BARS SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON CLOTHING DURING EGRESS.

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



DOOR TYPE 'A'



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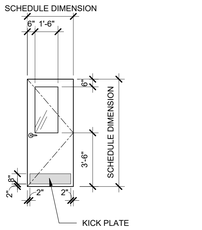

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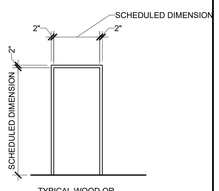
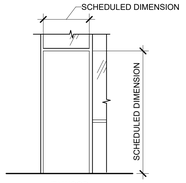


TYPICAL WOOD OR HOLLOW METAL FRAME

DOOR FRAME 'A'



(E) WOOD STOREFRONT-STYLE FRAME

DOOR FRAME 'C'

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PROFESSIONAL STAMP

LICENSED ARCHITECT
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REN. 01-31-25
STATE OF CALIFORNIA

REVISIONS

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
DOOR SCHEDULE

INCREMENT: INC.2

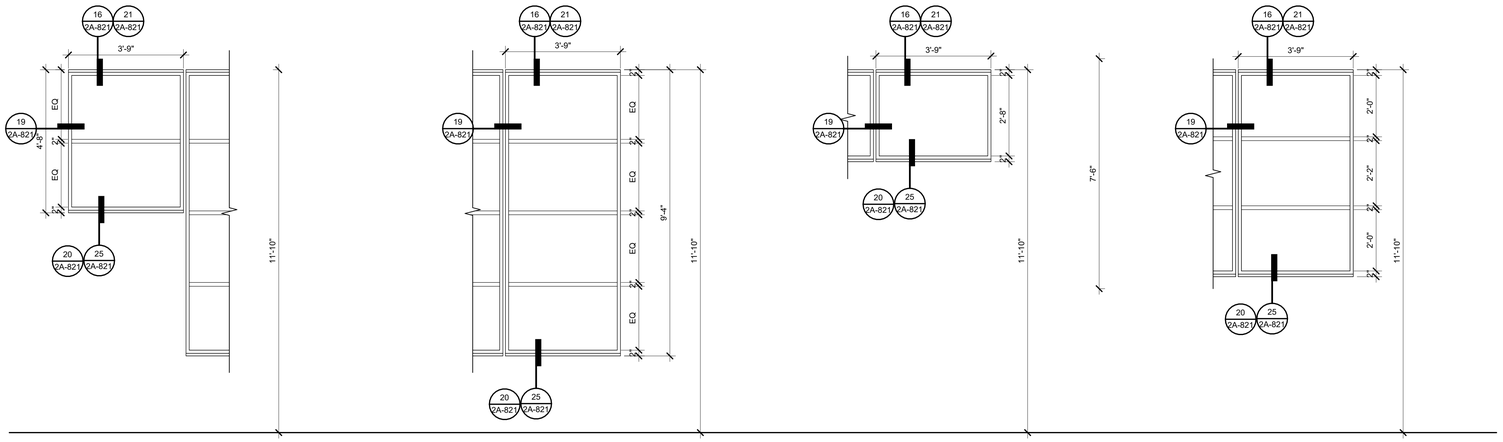
DRAWN BY: JOB NUMBER: 23119.01

SHEET NO.
2A-801

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:29:17 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

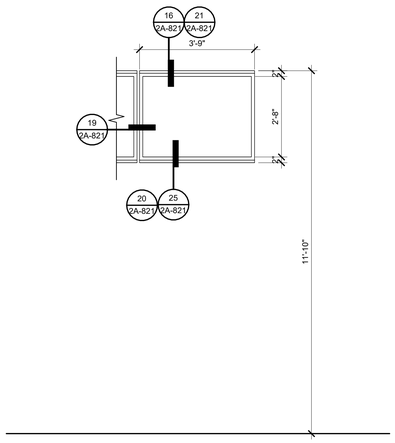


A	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUMINUM
	FRAME FINISH	CLR ANODIZED

B	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUMINUM
	FRAME FINISH	CLR ANODIZED

C	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUMINUM
	FRAME FINISH	CLR ANODIZED

D	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUMINUM
	FRAME FINISH	CLR ANODIZED



E	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUMINUM
	FRAME FINISH	CLR ANODIZED

LEGEND - WINDOW GENERAL NOTES

1. ALL GLASS TO BE TEMPERED PER SPECIFICATIONS.
2. ALL EXISTING WIRE GLASS TO BE REPLACED TO TEMPERED SAFATEY GLASS.
3. ALL GLASS TO BE INSULATING, PER SPECIFICATIONS.
4. EXTERIOR STOREFRONT AND CLERESTORIES WINDOWS TO B.O.D. BE OLDCASTLE
5. INTERIOR WINDOWS TO BE B.O.D. OLDCASTLE

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SHEET TITLE
WINDOW SCHEDULE

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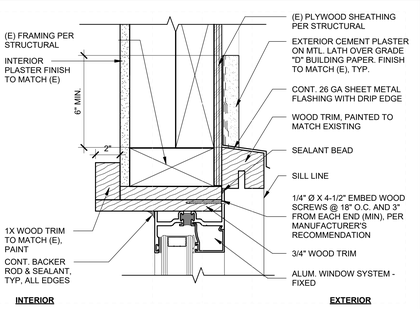
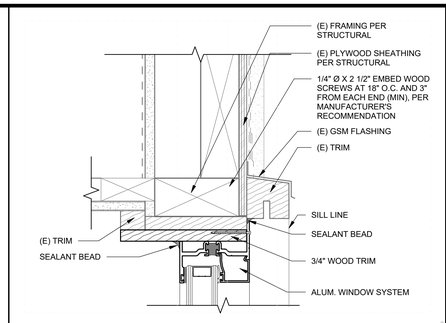
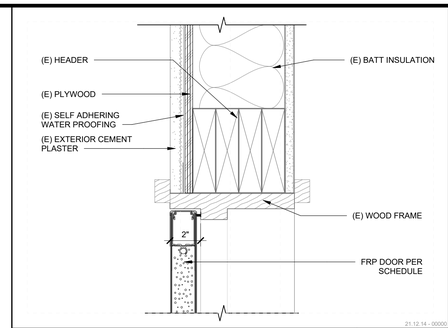


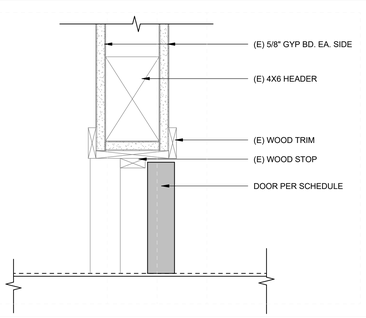
FIXED WINDOW HEAD (ALTERNATE) | 3" = 1'-0" | 21



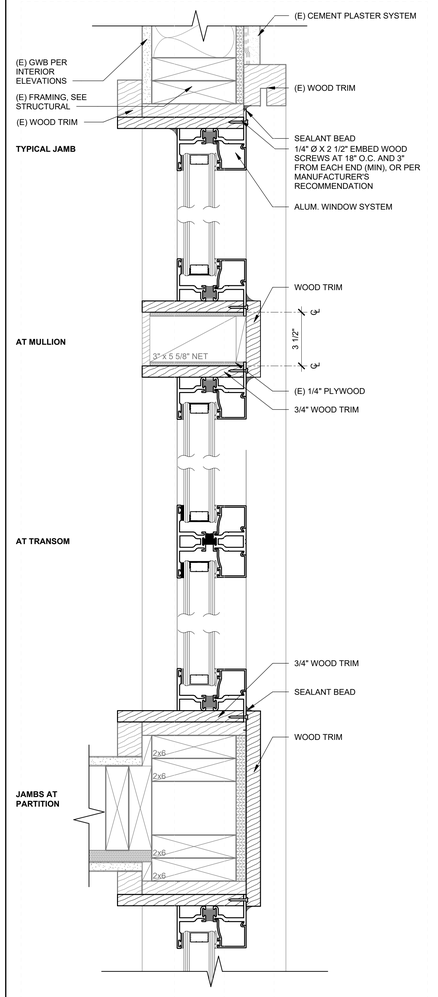
WINDOW (ALTERNATE) - HEAD RE: 1 / 2A-403 | 3" = 1'-0" | 16



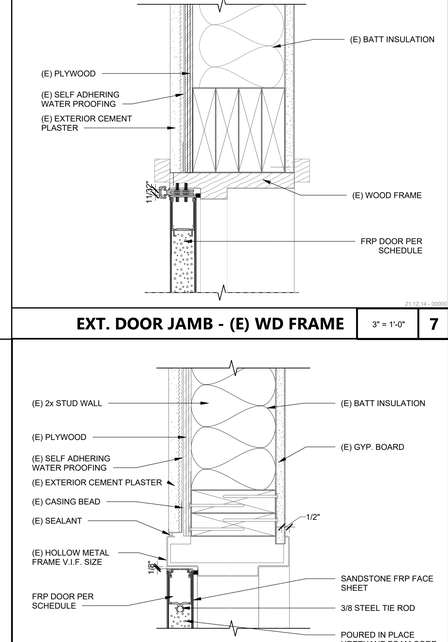
EXT. DOOR HEAD - (E) WD FRAME | 3" = 1'-0" | 6



INT WD. DOOR WITH EXISTING FRAME | 3" = 1'-0" | 1

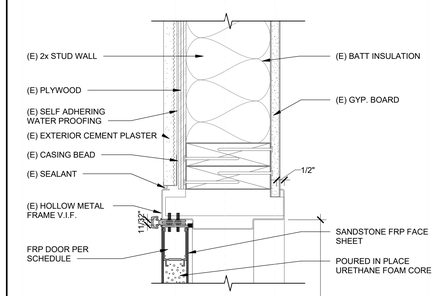


WINDOW (ALTERNATE) - JAMB | 3" = 1'-0" | 19



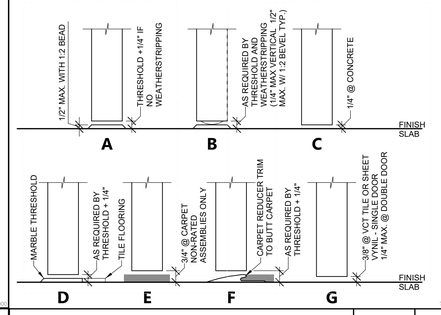
FRP HEAD DETAIL - HM FRAME | 3" = 1'-0" | 13

FRP HEAD DETAIL - (E) HM FRAME | 3" = 1'-0" | 8

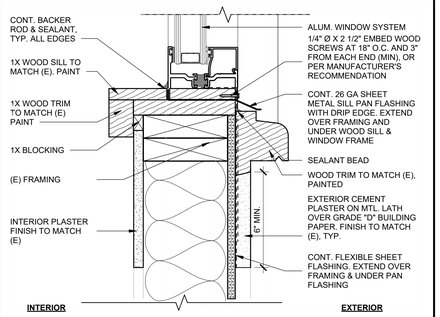


FRP JAMB DETAIL - HM FRAME | 3" = 1'-0" | 15

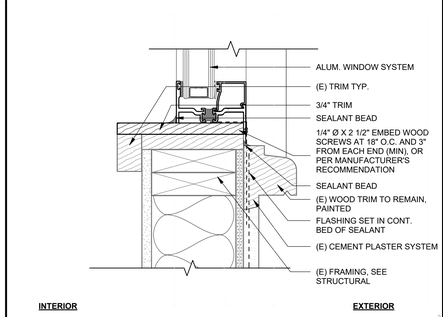
FRP JAMB DETAIL - (E) HM FRAME | 3" = 1'-0" | 10



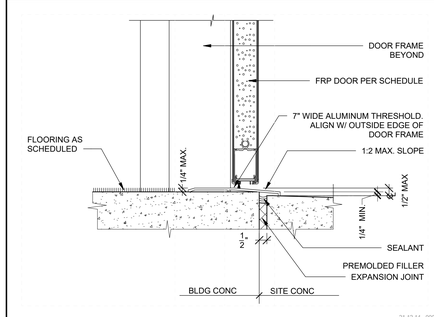
DOOR UNDERCUT CRITERIA | 3" = 1'-0" | 2



WINDOW SILL (ALTERNATE) | 3" = 1'-0" | 25



WINDOW SILL RE: 1 / 2A-401 | 3" = 1'-0" | 20



EXTERIOR DOOR THRESHOLD | 3" = 1'-0" | 5

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DOOR AND WINDOW DETAILS

INC 2

DRAWN BY: MP JOB NUMBER: 23119.01

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2A-821

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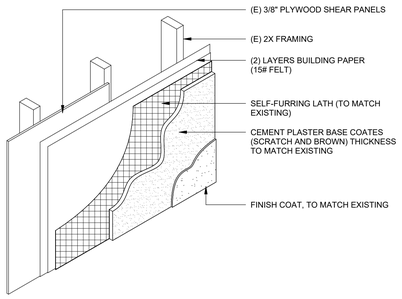


EXTERIOR PLASTER ASSEMBLY | 1" = 1'-0" | 21

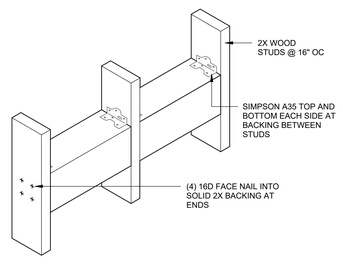
PLASTER DEMOLITION & REPAIR NOTES

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

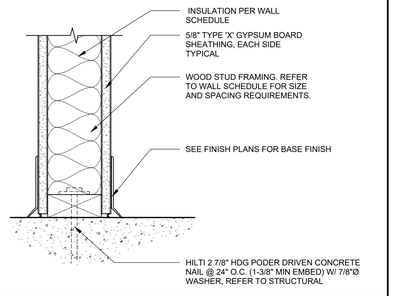
2. INSTALLATION OF THE WATER RESISTIVE BARRIER (BUILDING PAPER)
   A MINIMUM 6" VERTICAL AND 2" HORIZONTAL WEATHERBOARD / SHINGLE LAP IS REQUIRED, LAP TOP AND SIDES UNDER THE EXISTING AND ALLOW THE BOTTOM TO LAP OVER THE EXISTING PAPER.

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

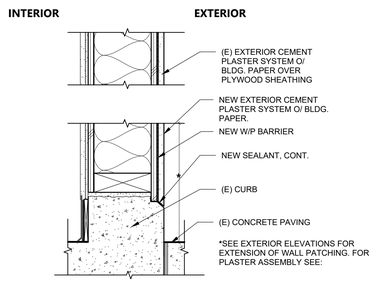
4. INSTALLATION OF PLASTER
   A. INSTALL (3)-COAT SYSTEM AS SPECIFIED TO (E) PLASTER EDGE.



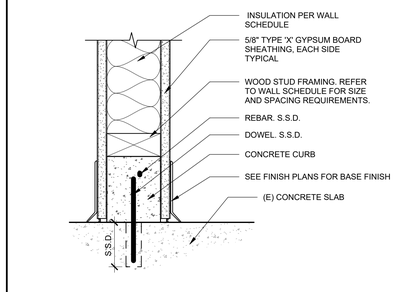
BACKING AT WOOD STUDS | 3" = 1'-0" | 22



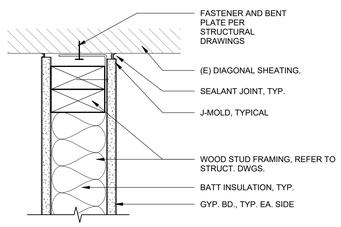
B.O. WALL- W/ OUT CURB | 3" = 1'-0" | 17



CEMENT PLASTER @ EXTERIOR WALL | 1 1/2" = 1'-0" | 23



B.O. RR WALL WITH CURB | 3" = 1'-0" | 6



T.O. WALL - FULL HEIGHT | 3" = 1'-0" | 25

WOOD FRAMING NOTES

1. SEE GENERAL NOTES ON A-101
2. 2X STUDS/ JOISTS, 4X/6X BEAMS & HEADERS ARE TO BE DF #1 OR BETTER
3. BLOCKING AND OTHER MISC. FRAMING IS TO BE DF STD @ BTR OR BETTER
4. ALL STRAPS, HANGERS, CLIPS, TIES, CAPS, BASES, PLATES ETC. AS MANUFACFACTURED BY SIMPSON STRONG-TIE, CATALOG 2015 OR ENGINEER APPROVED EQUIVALENT.
5. FRAMING SHALL BE LEVEL, PLUB, TRUE TO LINE, ACCURATE, SQUARE, NEAT, ETC.
6. CUSTOM CUT, SHAPE, RIP, BEVEL, COUNTERSIN, PLANE ETC. ALL MATERIAL AS IS REQUIRED FOR TIGHT FITTING. EVEN BEARING CONDNECTIONS W.O.
7. COUNTERSINK 1" MAX AT 3X & LARGER MEMBERS AS REQUIRED TO CONCEAL BOLT HEADS, NUTS & WASHERS. DO NOT DAP 2X AND SMALLER MEMBERS.

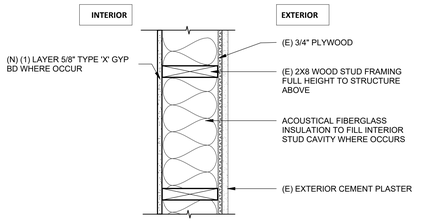
MIN HEADER @ LOAD BEARING WALLS		
x4 WALLS	4x12	6' MAX SPAN
x6 WALLS	6x6	6' MAX SPAN

MIN HEADER @ NON-LOAD BEARING WALLS		
x4 WALLS	4x4	6' MAX SPAN
x6 WALLS	4x6 FLAT	6' MAX SPAN

FRAMING	FASTENER
2X TOP PLATE TO 2x4 STUD	*(2) 16D END NAILS*
2X TOP PLATE TO 2X6 STUD	*(3) 16D END NAILS*
2X SILL PLATE TO 2x4 STUD	*(2) 16D END NAILS*
2X SILL PLATE TO 2x6 STUD	*(3) 16D END NAILS*
DOUBLE STUD/ CORNER STUDS	*16D @ 24" FACE NAIL, STGR*
DOUBLE TOP PLATE	*16D @ 24" FACE NAIL, STGR*
DOUBLE TOP PLATE SPLICE	*(15) 16D FACE NAIL EA SIDE, STGR*
BUILT UP HDR/ BM	*16D @ 12" FACE NAIL EA SIDE EA EDGE*
KING STUD TO HEADER	*(8) 16D END NAILS*
MISC 1x FRAMING	*(2) 10D EA CONTACT*
MISC 2X FRAMING	*(2) 16D EA CONTACT*

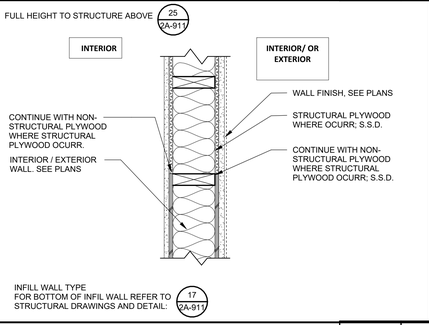
ALL NOTES ARE TYPICAL U.O.N. IN DRAWINGS. SEE CBC.TABLE 2304.9.1 FOR ADDITIONAL INFORMATION.

1-HR
(CBC TABLE 721.1(2)-14-1.3)

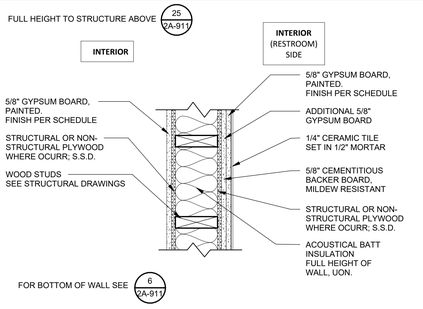


NOTE: SEE STRUCTURAL FOR SPACING. 16" O.C. TYP, U.O.N.

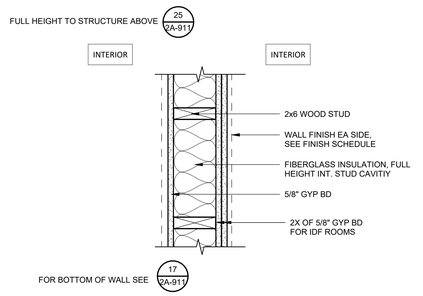
WALL TYPE 1 | 1 1/2" = 1'-0" | 1



WALL TYPE 2 | 1 1/2" = 1'-0" | 2



WALL TYPE 3 | 1 1/2" = 1'-0" | 3



WALL TYPE 4 | 1 1/2" = 1'-0" | 4

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196
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PROFESSIONAL STAMP

LICENSED ARCHITECT MARINA ALVAREZ PAREJA
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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
WALL TYPES & DETAILS

INC 2

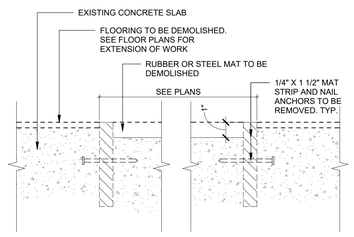
DRAWN BY: Author JOB NUMBER: 23119.01

SHEET NO.
2A-911

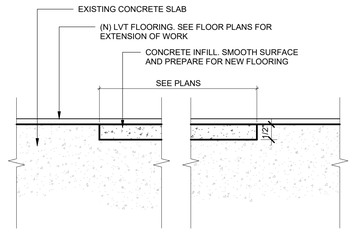
DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:29:26 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

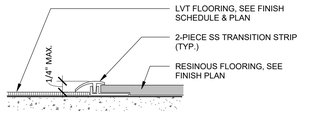


DEMOLITION



NEW WORK

CONCRETE INFILL @ DEMO RECESS MAT | 6" = 1'-0" | 22



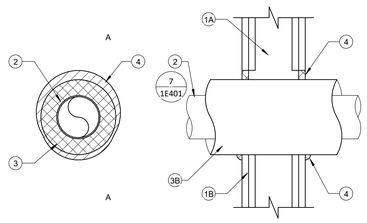
LVT FLOORING - EPOXY

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)

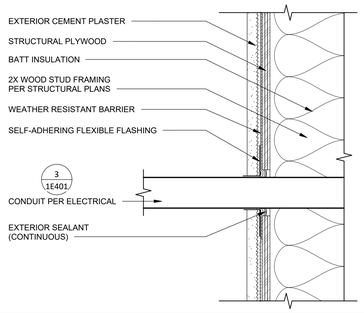


1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   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

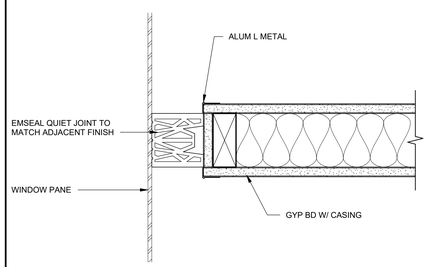
21.12.14 - 00000

W-L-5257: PIPE @ WALL ASSEMBLY | 3" = 1'-0" | 18



21.12.14 - 00000

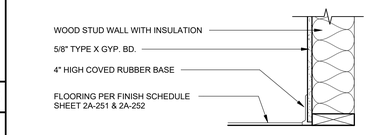
PENETRATION @ EXTERIOR WALL | 3" = 1'-0" | 19



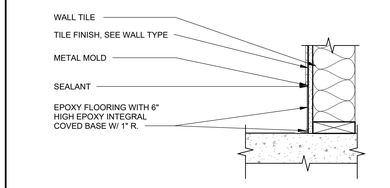
CARPET - LVT

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" | 20



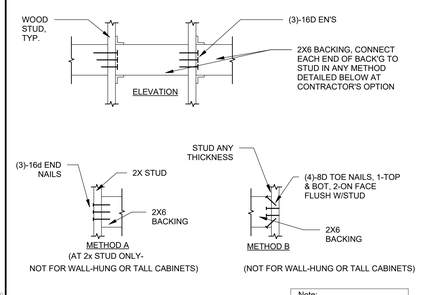
RUBBER BASE | B



EPOXY COVE BASE @ TOILET ROOMS | C

21.12.14 - 00000

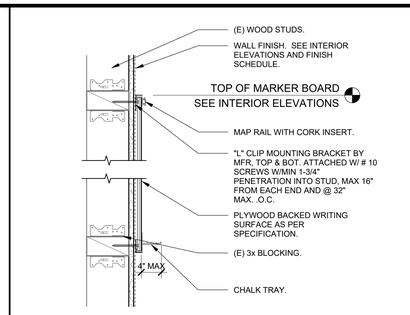
FLOOR BASE | 1 1/2" = 1'-0" | 12



TYP. BACKING/BLOCKING - WOOD STUD | 1" = 1'-0" | 13

21.12.14 - 00000

WALL TO (E) WINDOW | 3" = 1'-0" | 15



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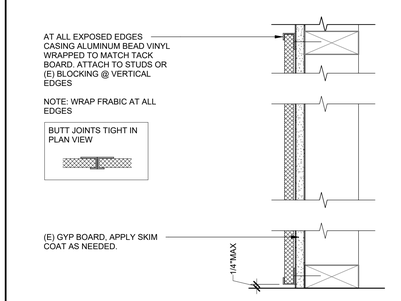
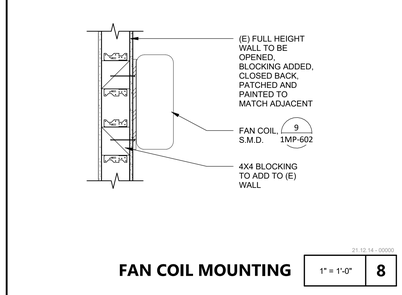
MARKER BOARD ANCHORAGE | 1 1/2" = 1'-0" | 6



21.12.14 - 00000

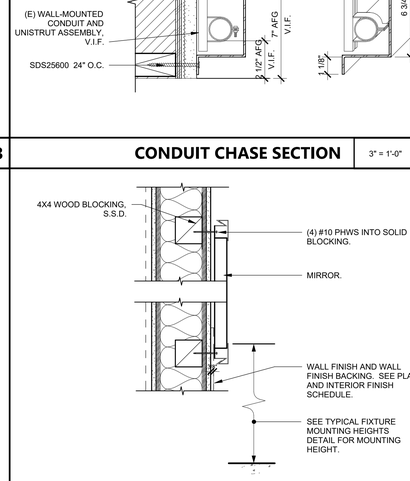
TACKBOARD | N.T.S. | 7



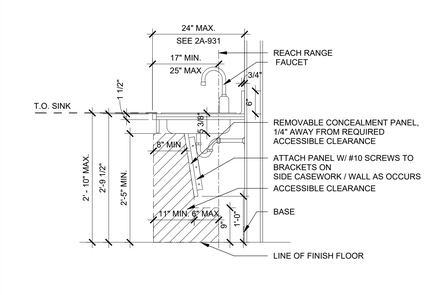
21.12.14 - 00000

FAN COIL MOUNTING | 1" = 1'-0" | 8

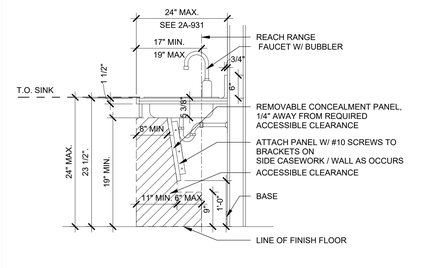
MIRROR MOUNTING | 1 1/2" = 1'-0" | 10



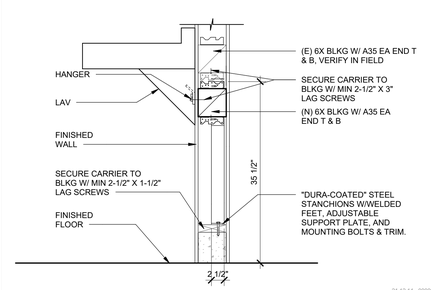
CONDUIT CHASE SECTION | 3" = 1'-0" | 9



TYPICAL SINK MOUNTING DETAIL | 3/4" = 1'-0" | 1

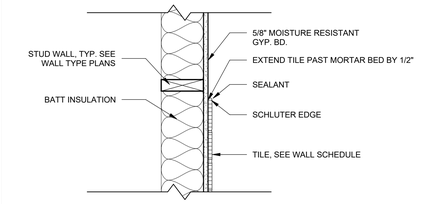


SINK TYPICAL MOUNTING - AGES 5-8 | 3/4" = 1'-0" | 2

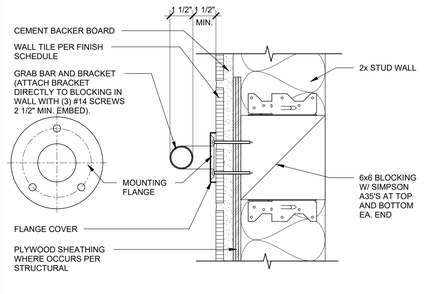


21.12.14 - 00000

LAVATORY MOUNTING | 1" = 1'-0" | 3



TILE TERMINATION | 1 1/2" = 1'-0" | 4



GRAB BAR BLOCKING | 3" = 1'-0" | 5

AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION
2	12-19-2023	DSA SUBMITTAL

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

INTERIOR DETAILS

INC 2

DRAWN BY: MP JOB NUMBER: 23119.01

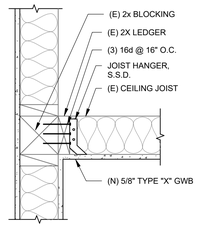
SHEET NO.

2A-921

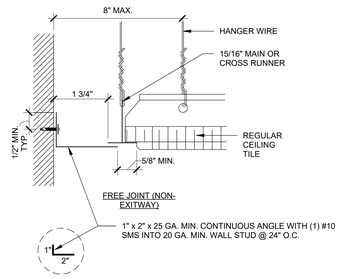
DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:29:28 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt



GYPSUM BOARD CEILING- WOOD | 1 1/2" = 1'-0" | 21



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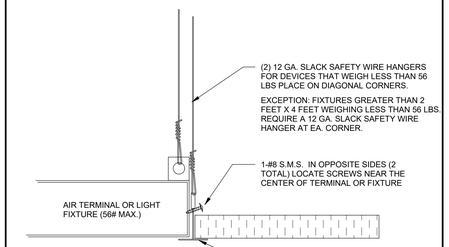
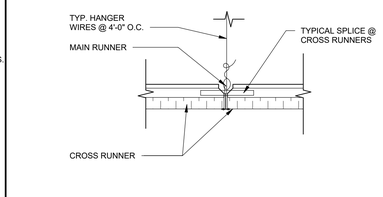
CEILING PERIMETER FOR TEGULAR TILE | 6" = 1'-0" | 16



IR 25-2.13 2.80

21.12.14 - 00000

LIGHT FIXTURES/AIR TERMINAL SUPPORT | 6" = 1'-0" | 11



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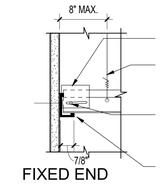
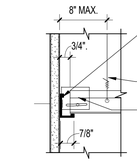
RUNNER SPLICE | 3" = 1'-0" | 6

FOR CEILING SYSTEM GENERAL NOTES SEE 1A-923



FIXED END

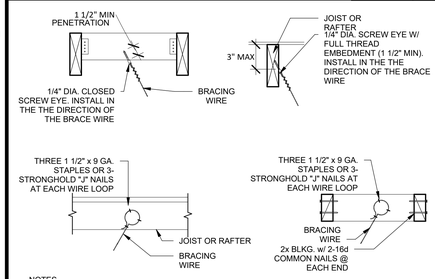


FREE END

NOTES

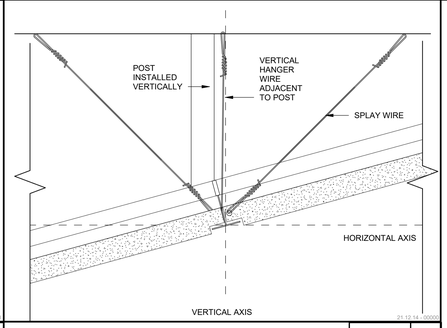
ARMSTRONG SUSPENDED CEILING SYSTEM DESIGN AND INSTALLATION PER ICC-ESR 1308

TBAR CEILING - ATTACHMENT @ WALL | 3" = 1'-0" | 23



NOTES
1. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOUD DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

BRACING WIRE TO SAWN TIMBER | 1 1/2" = 1'-0" | 24



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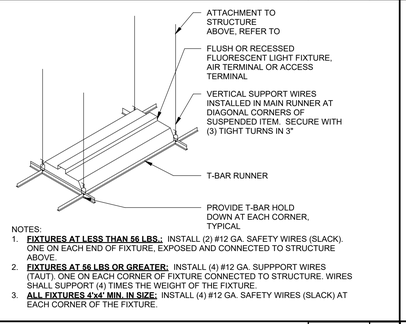
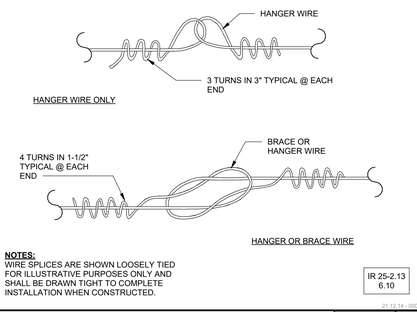
SLOPED CEILING DETAIL | 6" = 1'-0" | 19



NOTES:
1. **FIXTURES AT LESS THAN 56 LBS.:** INSTALL (2) #12 GA. SAFETY WIRES (SLACK). ONE ON EACH END OF FIXTURE, EXPOSED AND CONNECTED TO STRUCTURE ABOVE.
2. **FIXTURES AT 56 LBS OR GREATER:** INSTALL (4) #12 GA. SUPPPORT WIRES (TAUT). ONE ON EACH CORNER OF FIXTURE CONNECTED TO STRUCTURE. WIRES SHALL SUPPORT (4) TIMES THE WEIGHT OF THE FIXTURE.
3. **ALL FIXTURES 4'x4' MIN. IN SIZE:** INSTALL (4) #12 GA. SAFETY WIRES (SLACK) AT EACH CORNER OF THE FIXTURE.

SUSPENDED FIXTURE | 3" = 1'-0" | 17

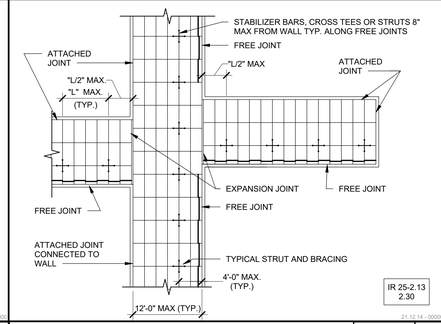


NOTES:
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

IR 25-2.13 6.10

21.12.14 - 00000

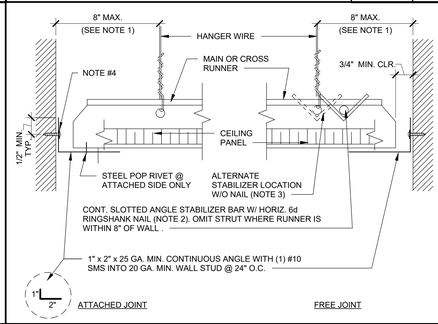
TYPICAL WIRE SPLICES | 6" = 1'-0" | 12



IR 25-2.13 2.30

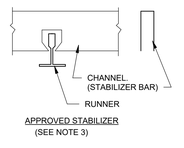
21.12.14 - 00000

SUSP. CEILING-CORRIDOR CEILING PLAN | 3/32" = 1'-0" | 7



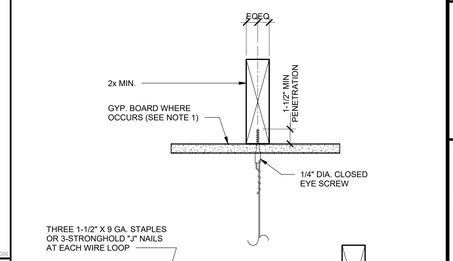
CEILING PERIMETER | 6" = 1'-0" | 8

NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. FASTEN ANGLE TO WALL STUD OR BLOCKING AS FOLLOWS:
   A. METAL STUD (20 GA. MIN.) WALL: (1) #10 SMS AT 24" O.C. MAX.
   B. WOOD STUD WALL: #10x2" LONG WOOD SCREW AT 16" O.C. MAX.



APPROVED STABILIZER (SEE NOTE 3)

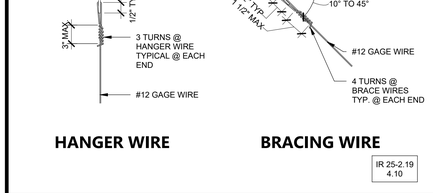
IR 25-2.13 2.60



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.

IR 25-2.19 4.25

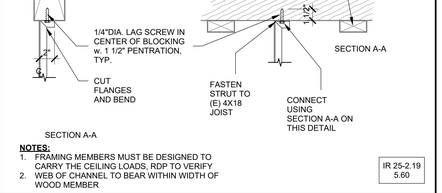
HANGER WIRE TO (E) JOISTS | 3" = 1'-0" | 3



HANGER WIRE **BRACING WIRE**

IR 25-2.19 4.10

TYP. BRACING WIRE | 6" = 1'-0" | 25

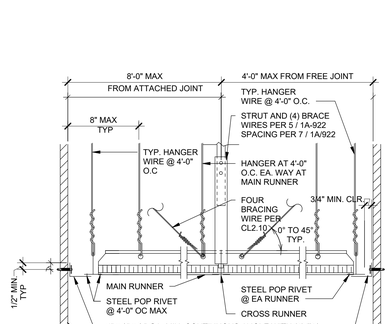


SECTION A-A

NOTES:
1. FRAMING MEMBERS MUST BE DESIGNED TO CARRY THE CEILING LOADS. RDP TO VERIFY
2. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER

IR 25-2.19 5.60

STRUT CONN @ (E) JOISTS | 1 1/2" = 1'-0" | 20

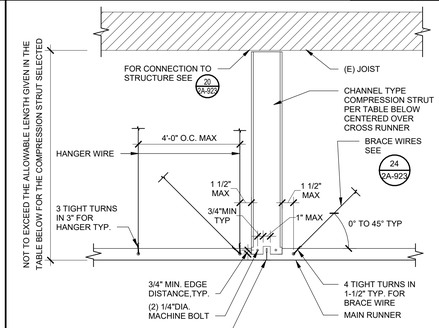


EXITWAY CORRIDOR DETAILS

NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

IR 25-2.13 2.50

TYP CEILING SECTION @ EXIT CORRIDORS | 3/8" = 1'-0" | 15

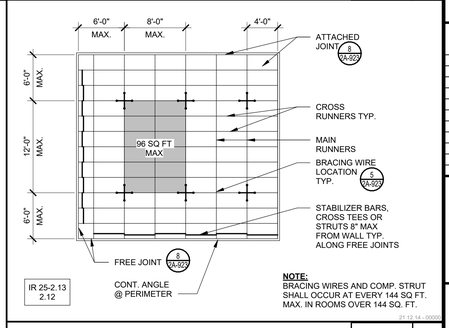


SECTION

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-10"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'10"
400S137-43	10'-10"

IR 25-2.13 3.10 3.21

CHANNEL TYPE STRUT | 1 1/2" = 1'-0" | 10

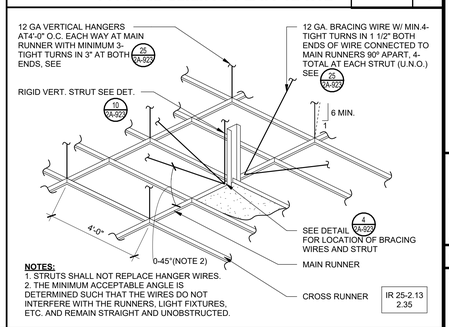


IR 25-2.13 2.12

NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ FT. MAX. IN ROOMS OVER 144 SQ. FT.

21.12.14 - 00000

TYPICAL CEILING PLAN 12'x12' | 1/8" = 1'-0" | 4



NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

IR 25-2.13 2.35

SUSPENDED CEILING BRACING ASSEMBLY | 3/8" = 1'-0" | 5

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

REVISIONS

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	12-19-2023	DSA SUBMITTAL

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
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MEADOW HOMES ES MODERNIZATION

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SHEET TITLE

CEILING DETAILS

INC.2

DRAWN BY: MP JOB NUMBER: 23119.01

SHEET NO.

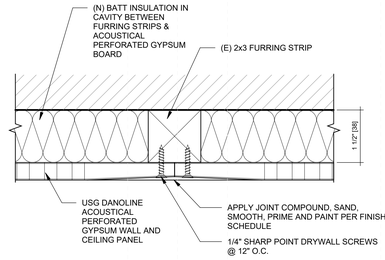
2A-923

DATE: JULY 30, 2024

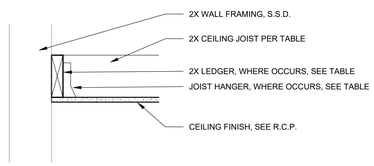
CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

DATE PLOTTED: 7/30/2024 1:29:31 PM



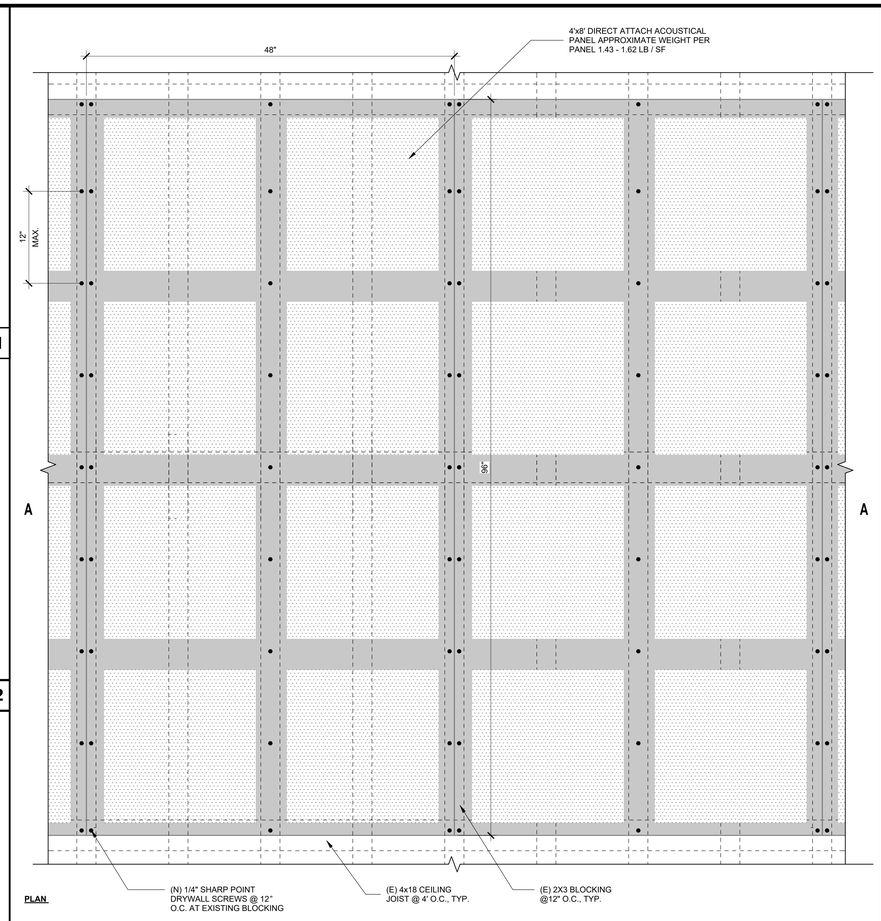
CEILING ATTACHMENT | 1 1/2" = 1'-0" | 11



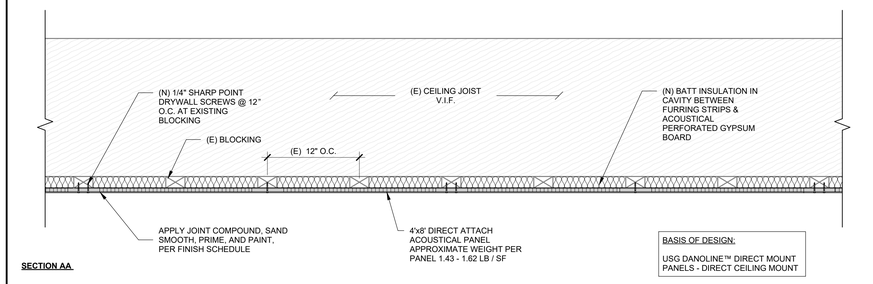
SPAN	HANGER, JOIST SIZE	IF REQUIRED	LEDGER, IF REQUIRED
< 5'-0"	2X4 @ 16" O.C.	LU24	2X4 W/ (2) 16d @ 16" O.C.
5'-1" TO 10'-0"	2X6 @ 16" O.C.	LU26	2X6 W/ (3) 16d @ 16" O.C.
10'-1" TO 15'-0"	2X8 @ 16" O.C.	LU26	2X8 W/ (3) 16d @ 16" O.C.
15'-1" TO 20'-0"	2X12 @ 16" O.C.	LU210	2X12 W/ (4) 16d @ 16" O.C.

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



PLAN



SECTION AA

DIRECT ATTACH ACOUSTIC CEILING PANEL TO EXISTING FRAMING | 1 1/2" = 1'-0" | 3

AGENCY APPROVAL DSA# 01-121400

196

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REVISIONS
2 FOR PLAN CHECK ONLY, PER DSA IR_A-19

NO.	DATE	DESCRIPTION
	12-19-2023	DSA SUBMITTAL

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SHEET TITLE

CEILING DETAILS

INC.2

DRAWN BY: Author JOB NUMBER: 23119.01

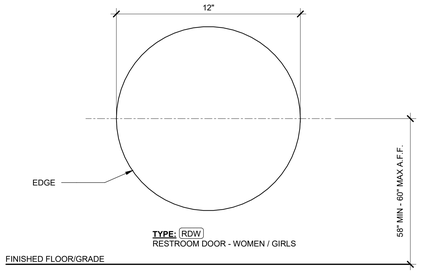
SHEET NO.

2A-924

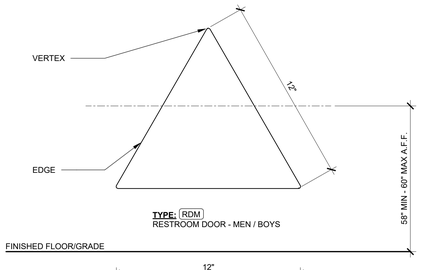
DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

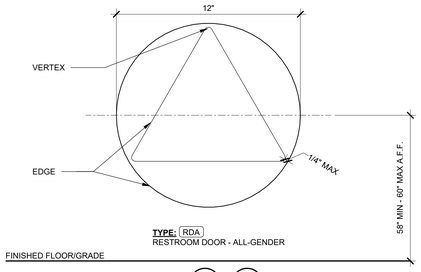
DATE PLOTTED: 7/30/2024 1:29:33 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt



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

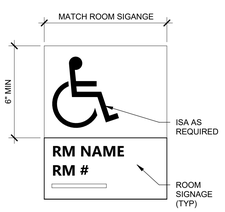
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925)

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)

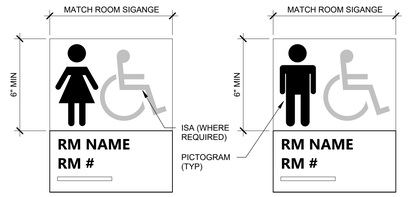
NOTE 4: ISA SHALL BE JUSTIFIED TO ALIGNED WITH ROOM SIGNAGE

NOTE 5: ISA SHALL CONTRAST WITH THE BACKGROUND



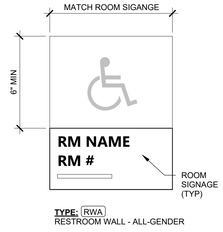
21.12.14 - 00000

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

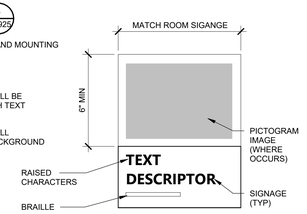
SIGNAGE - RESTROOMS - PICTOGRAMS | 3" = 1'-0" | 13

NOTE 1: FOR SIGNAGE SEE (2 2A-925) (3 2A-925) (8 2A-925)

NOTE 2: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

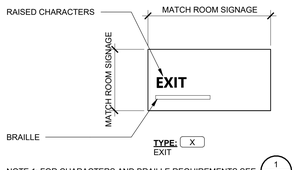
NOTE 3: PICTOGRAM SHALL BE JUSTIFIED TO ALIGN WITH TEXT DESCRIPTOR

NOTE 4: PICTOGRAM SHALL CONTRAST WITH THE BACKGROUND



21.12.14 - 00000

SIGNAGE - PICTOGRAMS | 3" = 1'-0" | 6



TYPE: X
EXIT

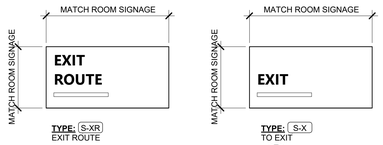
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925)

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

TYPE: S-X
TO 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)

NOTE 4: WHEN PICTOGRAMS ARE USED, SEE (6 2A-925)

NOTE 5: WORDING ON THESE SIGNS IS PER CBC CHAPTER 10

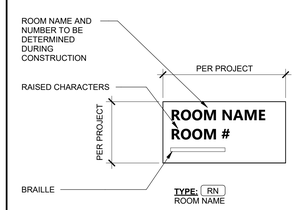
21.12.14 - 00000

SIGNAGE - EXIT ROUTES | 3" = 1'-0" | 8

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

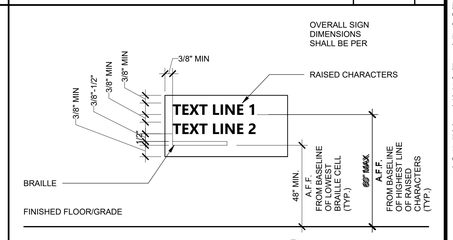
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925) & (3 2A-925)

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



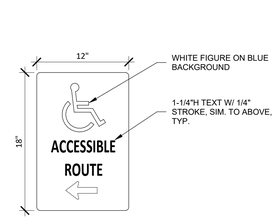
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925)

NOTE 2: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

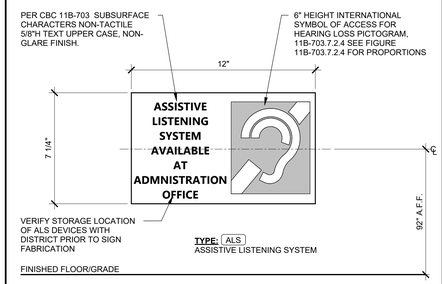
NOTE 3: FOR SIGNS WITH ONLY A SINGLE LINE OF TEXT, IT SHALL BE LOCATED AT "TEXT LINE 2"

21.12.14 - 00000

SIGNAGE - CODE DIMENSIONS | 3" = 1'-0" | 3



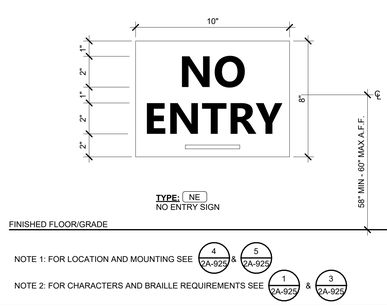
ACCESSIBLE ROUTE | 1 1/2" = 1'-0" | 19



TYPE: ALS
ASSISTIVE LISTENING SYSTEM

21.12.14 - 00000

SIGNAGE - ALS | 3" = 1'-0" | 14



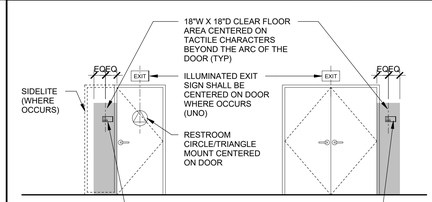
TYPE: NE
NO ENTRY SIGN

NOTE 1: FOR LOCATION AND MOUNTING SEE (4 2A-925) & (5 2A-925)

NOTE 2: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 2A-925) & (3 2A-925)

21.12.14 - 00000

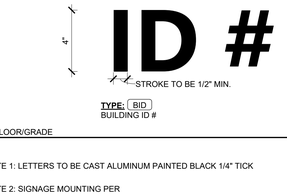
NO ENTRY SIGN | 3" = 1'-0" | 9



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

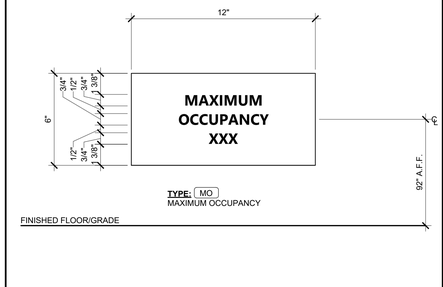


TYPE: BID
BUILDING ID #

NOTE 1: LETTERS TO BE CAST ALUMINUM PAINTED BLACK 1/4" TICK

NOTE 2: SIGNAGE MOUNTING PER

BUILDING SIGNAGE | 3" = 1'-0" | 20



TYPE: MO
MAXIMUM OCCUPANCY

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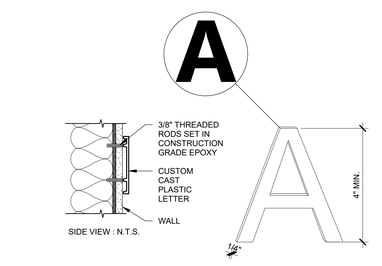
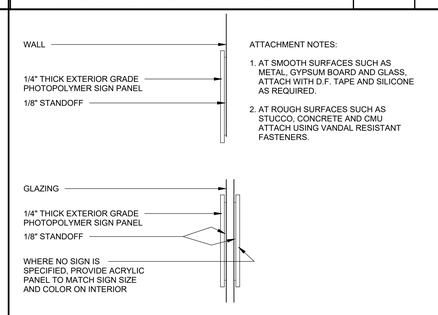
SIGNAGE - MAXIMUM OCCUPANCY | 3" = 1'-0" | 15



CAST PLASTIC LETTERS | 1 1/2" = 1'-0" | 10



21.12.14 - 00000

SIGNAGE - MOUNTING | 3" = 1'-0" | 5

AGENCY APPROVAL DSA# 01-121400

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REVISIONS

NO.	DATE	DESCRIPTION
	12-19-2023	DSA SUBMITTAL

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PROJECT OWNER & TITLE

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1936 Carlotta Drive
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MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
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SHEET TITLE

SIGNAGE DETAILS

ING.2

DRAWN BY: MP JOB NUMBER: 23119.01

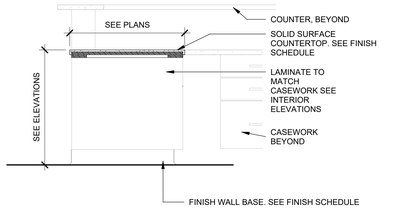
SHEET NO.

2A-925

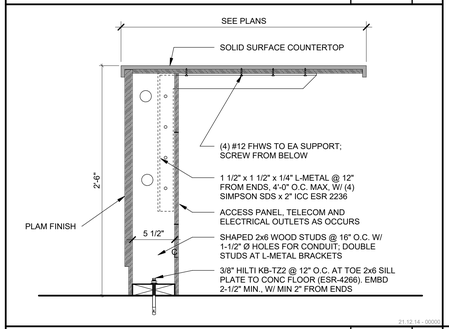
DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

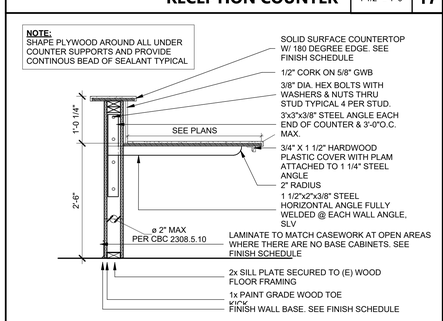
DATE PLOTTED: 7/30/2024 1:29:36 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt



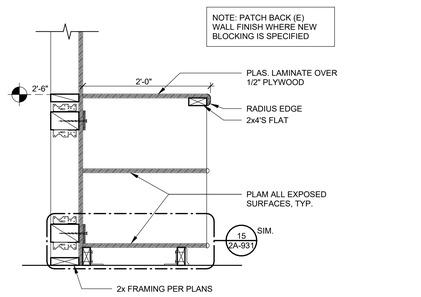
RECEPTION ADA COUNTER — 3/4" = 1'-0" — 16



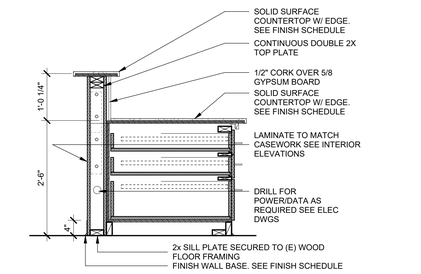
RECEPTION COUNTER — 1 1/2" = 1'-0" — 17



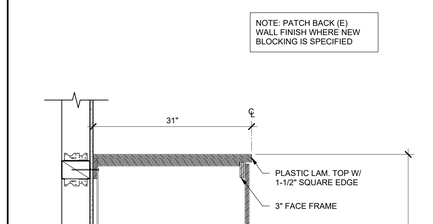
RECEPTION TRANSACTION COUNTER — 3/4" = 1'-0" — 18



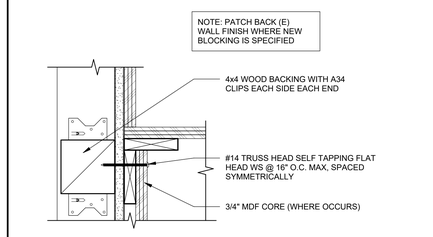
LOWER SHELVES SECTION — 1" = 1'-0" — 19



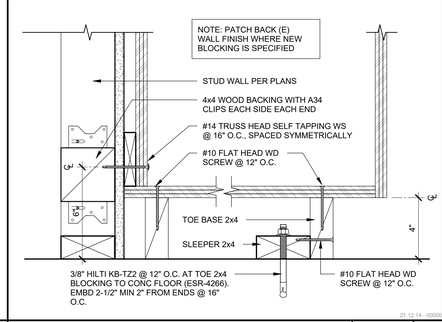
RECEPTION CASEWORK — 3/4" = 1'-0" — 20



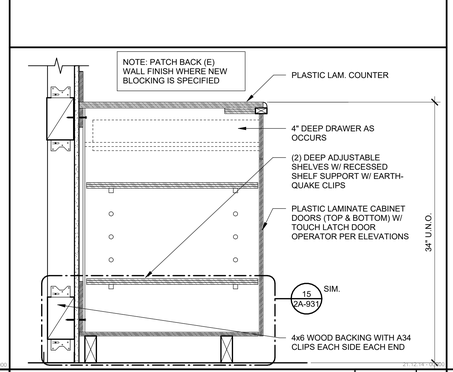
IDF CABINET — 1" = 1'-0" — 12



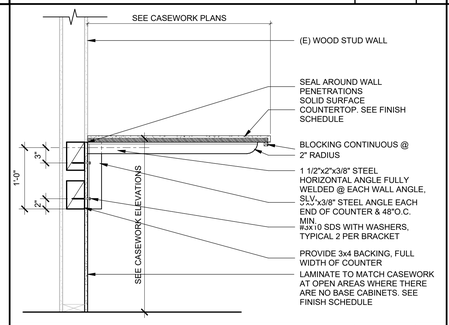
CABINETRY BLOCKING - COUNTER — 3" = 1'-0" — 14



CABINETRY BLOCKING - BASE — 3" = 1'-0" — 15



BASE CABINETS — 1 1/2" = 1'-0" — 7



ADA COUNTER @ RECEPTION — 1" = 1'-0" — 8

CASEWORK NOTES

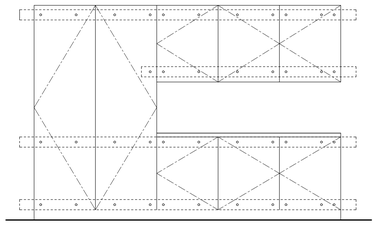
1. SEE INTERIOR ELEVATIONS AND FLOOR PLAN FOR CABINET CONFIGURATIONS AND DIMENSIONS. ONLY THOSE CABINETS CALLED OUT ON INTERIOR ELEVATIONS AND FLOOR PLAN SHALL BE PROVIDED
2. DOOR SWINGS SHALL BE AS SHOWN ON INTERIOR ELEVATIONS, IF NOT ELEVATED, SWINGS SHALL BE AS SHOWN ON DETAIL SHEET ILLUSTRATIONS. 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 #12 TEK SCREWS (AT METAL 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 SHEET METAL SCREWS MUST HAVE ICC#. 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



NOTES — 1/2" = 1'-0" — 2

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SHEET TITLE

CASEWORK DETAILS

INC.2

DRAWN BY: MP JOB NUMBER: 23119.01

SHEET NO.

2A-931

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/30/2024 1:29:37 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDIUSD_MEADOW HOMES ES MOD_INC02_A22_.rvt

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 IN THESE DRAWINGS WAS OBTAINED FROM LIMITED SITE INVESTIAGTIONS AND INDICATED FOR REFERENCE ONLY. 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

E. WIND DESIGN DATA:
1. BASIC WIND SPEED = 115 mph (3 SECOND GUST)
2. EXPOSURE CATEGORY = C

F. SEISMIC DESIGN DATA:
1. I = 1.25
2. S_{DS} = 1.566
3. Ss : 1.957 , S_1 : 0.6, S_{D1} : NULL
4. SITE CLASS = DEFAULT
5. SEISMIC DESIGN CATEGORY = D

IV. 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 6'-0" 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.

I. NAILS SHALL BE COMMON WIRE GAGE, UNLESS OTHERWISE NOTED AND CONFORM TO CBC TABLE 2304.10.1.

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.

V. 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-XP PER ICC-ES ESR-2508 AS MANUFACTURED BY SIMPSON STRONG TIE
   b. HIT-RE 500-SD PER ICC-ES ESR-2322 AS MANUFACTURED BY HILTI, INC.
   c. HY-200 MAX-SD PER ICC-ES ESR-2013 AS MANUFACTURED BY HILTI, INC.
2. 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 MAX-SD	HIT-RE 500-SD	SET-XP
#3	3	3360	3510	3400
#4	4	6010	6150	5690
#5	5	9940	9330	7640
#6	6	13660	12860	9770
#7	7	15750	13550	12250
#8	8	20670	16540	15430
#9	9	26270	19580	N/A
#10	10	32500	22060	24100

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (f'c = 3000 PSI MIN)				
THREADED ROD DIAMETER (IN)	EMBED (IN)	TENSION TEST VALUE (LBS)		
		HY-200 MAX-SD	HIT-RE 500-SD	SET-XP
3/8	3	3360	3510	3620
1/2	4	6010	6150	5690
5/8	5	9440	9330	7640
3/4	6	7120	12860	9770
7/8	7	15750	13620	12250
1	8	20670	16440	15430
1 1/4	10	32500	22060	24100

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 TZ PER ICC-ES ESR-1917 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 TZ IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)			
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST
(IN)		DEPTH (IN)	VALUE (FT-LBS)
3/8	2 5/16	2 5/8	25
1/2	2 3/8	2 5/8	40
5/8	4 7/16	4 3/4	60
3/4	5 9/16	5 3/4	110

STRONG BOLT 2 IN NORMAL WEIGHT CONCRETE (f'c = 3000 PSI MIN)			
ANCHOR DIAMETER	EMBED (IN)	MINIMUM HOLE	TORQUE TEST
(IN)		DEPTH (IN)	VALUE (FT-LBS)
3/8	1 7/8	2	30
1/2	2 3/4	3	60
5/8	5 1/8	5 3/8	90
3/4	5 3/4	6	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 (FT-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 (FT-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	1547
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 OR STEEL
   c. HILTI, INC. X-CP 72 PER ICC-ES ESR-2379 FOR ANCHORAGE OF SILL PLATES 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.

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
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

AGENCY APPROVAL DSA# 01-121400

196

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER GOKHAN AKALAN NO. 5594 STRUCTURAL STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
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Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

GENERAL NOTES

INCREMENT: INC.2

DRAWN BY: SN JOB NUMBER: 23119.01

SHEET NO.

2S-100

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS 100%

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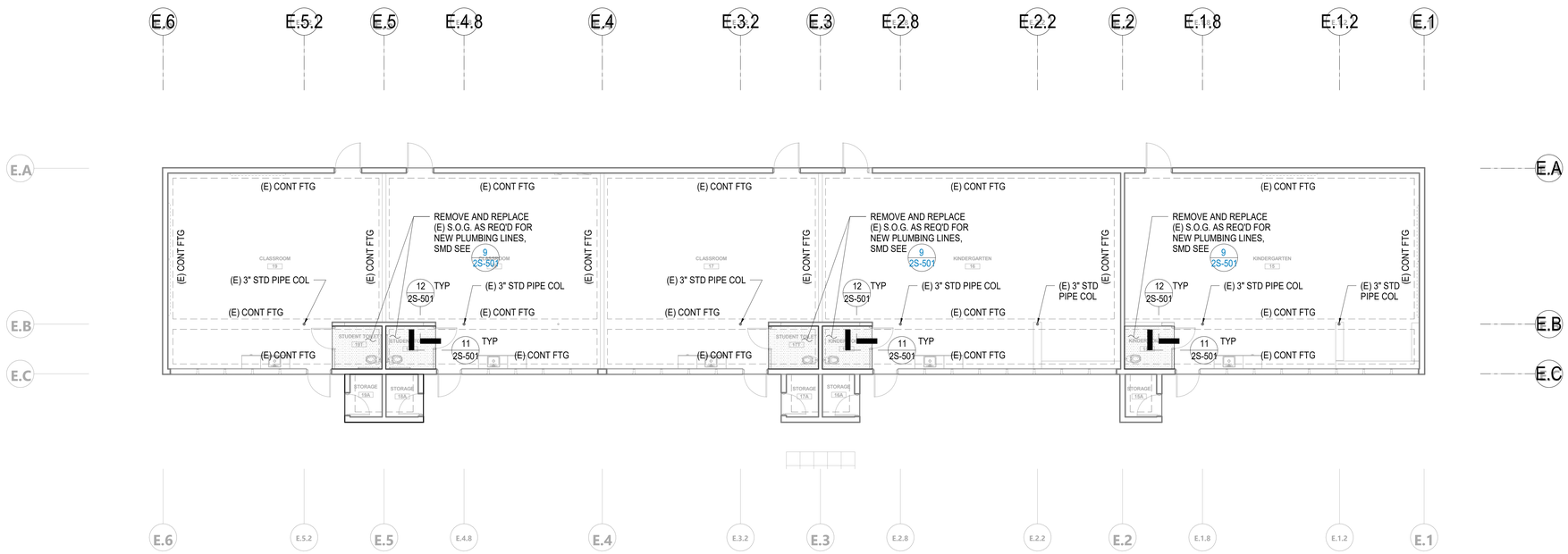

1 FOUNDATION PLAN BUILDING E

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.

AGENCY APPROVAL DSA# 01-121400

196

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SHEET TITLE

BUILDING E - FOUNDATION PLAN

INCREMENT: INC.2

DRAWN BY: SN JOB NUMBER: 23119.01

SHEET NO.

2S-201

DATE: JULY 30, 2024

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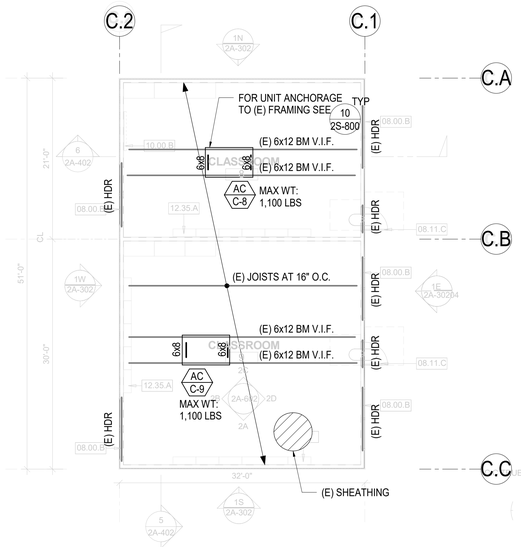
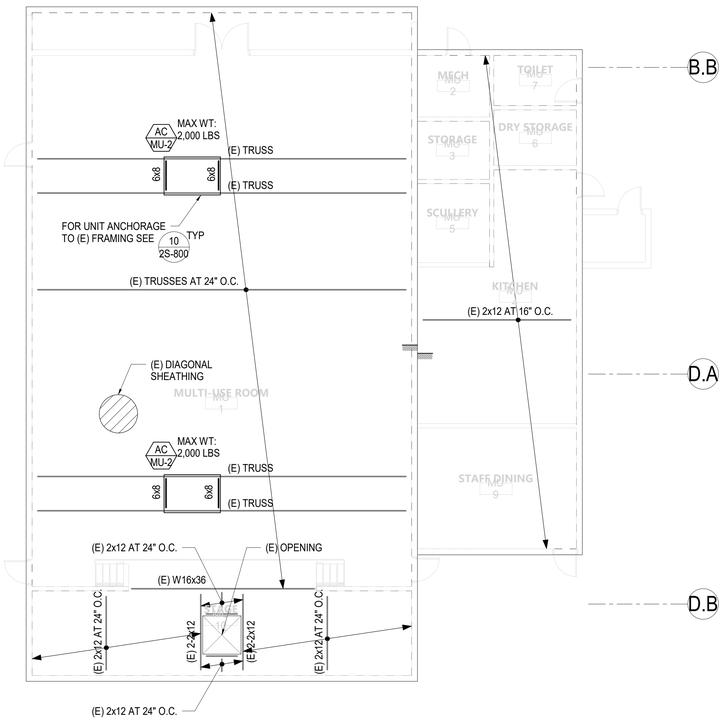


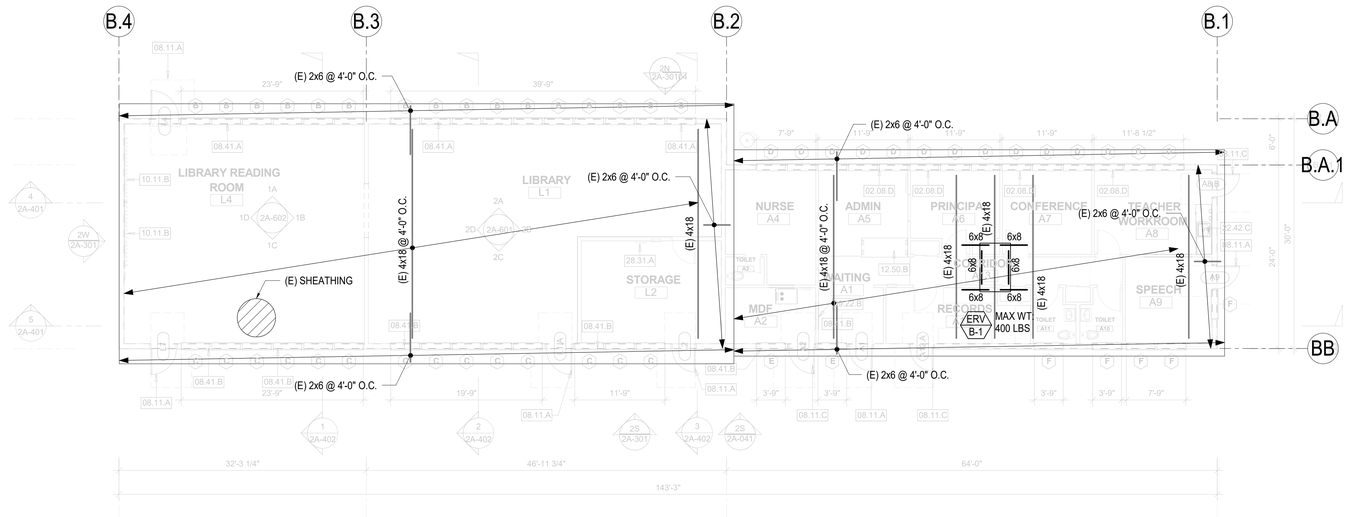
3 ROOF FRAMING PLAN BUILDING C

1/8" = 1'-0"



1 ROOF FRAMING PLAN MULTI USE BUILDING

1/8" = 1'-0"



2 ROOF FRAMING PLAN BUILDING B.1

1/8" = 1'-0"

SHEET NOTES:
1. SEE GENERAL NOTES ON SHEET 2S-100.
2. SEE TYPICAL FRAMING DETAILS ON SHEETS 2S-800 AND 2S-801.
3. AT CONTRACTOR OPTION, NEW FRAMING MAY BE INSTALLED FROM ABOVE PROVIDED THAT FULL SECTIONS OF EXISTING PLYWOOD IS REMOVED AND REINSTALLED PER 11 2S-800

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SHEET TITLE
ROOF FRAMING PLAN - BLDG B.1, C AND MULTI USE BUILDING
INCREMENT: INC.2

DRAWN BY: Author JOB NUMBER: 23119.01

SHEET NO.
2S-202

DATE: JULY 30, 2024

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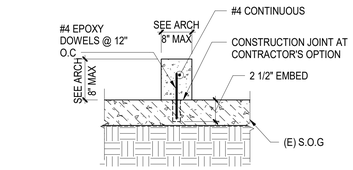
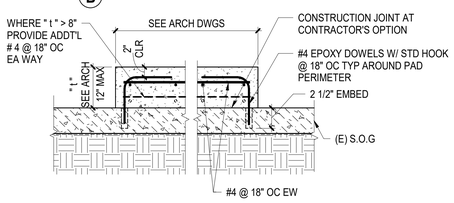


B CURB AT SLAB-ON-GRADE



A HOUSEKEEPING PAD

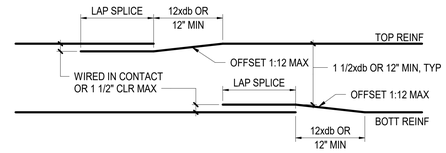
CONCRETE STRENGTH		3000 PSI			
REINFORCING CONFIGURATION		CASE 1		CASE 2	
BAR SIZE \ BAR LOCATION		TOP	OTHER	TOP	OTHER
"CLASS A LAP SPLICE AND STRAIGHT DEVELOPMENT LENGTH, Ld (INCHES)"	#3	22	17	32	25
	#4	29	22	43	33
	#5	36	28	54	41
	#6	43	33	64	50
	#7	63	48	94	72
	#8	72	55	107	82
CLASS B LAP SPLICE (INCHES)	#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

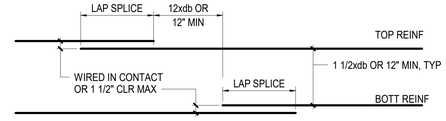
   OTHER ELEMENTS:
   - CONCRETE COVER >= db AND
   - CENTER-TO-CENTER SPACING >= 3x db

   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.



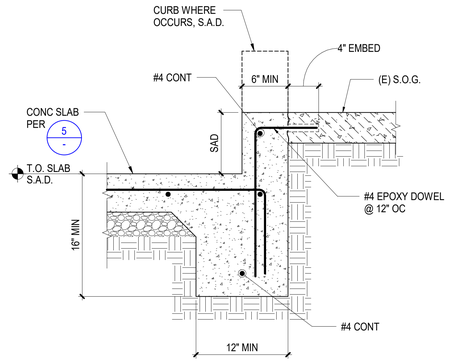
a BEAM SPLICE DETAIL



b STRAGGERED WALL OR SLAB SPLICE DETAIL

10 CURBS AND HOUSEKEEPING PADS AT (E) S.O.G

NTS

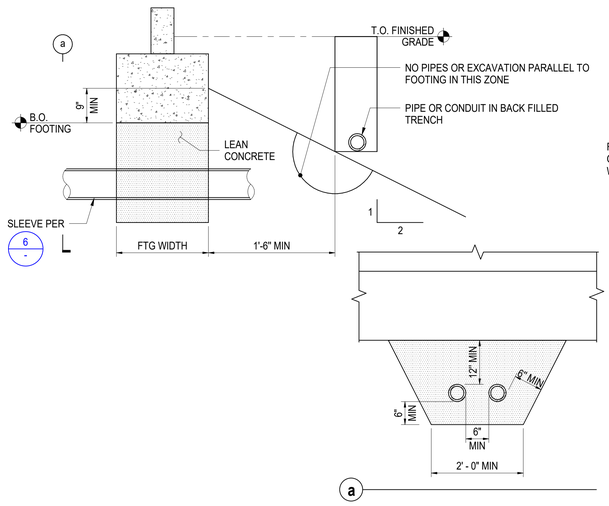


11 DEPRESSED SLAB DETAIL

1 1/2" = 1'-0"

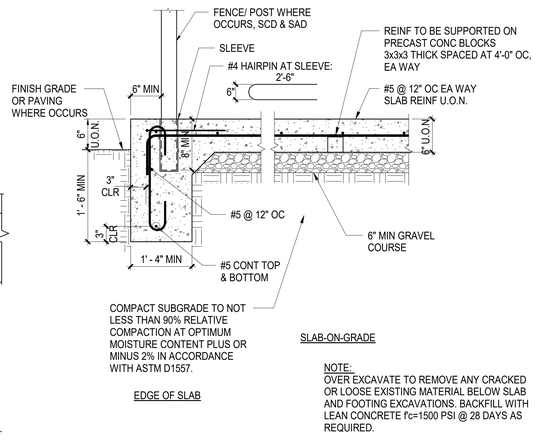
7 LAP SPLICE + STRAIGHT BAR DEVELOPMENT LENGTHS

NTS



8 TYPICAL EXCAVATION PARALLEL TO FTG

NTS



SLAB-ON-GRADE

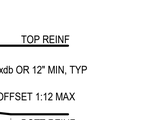
NOTE:
OVER EXCAVATE TO REMOVE ANY CRACKED OR LOOSE EXISTING MATERIAL BELOW SLAB AND FOOTING EXCAVATIONS. BACKFILL WITH LEAN CONCRETE f'c=1500 PSI @ 28 DAYS AS REQUIRED.

5 SLAB ON GRADE DETAIL

NTS

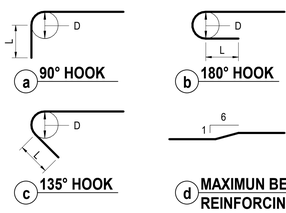
HOOKED BAR DEVELOPMENT LENGTH, Ldh			
BAR SIZE	CONCRETE STRENGTH		
	3000 PSI	4000 PSI	5000 PSI
#3	0' - 8"	0' - 7"	0' - 6"
#4	0' - 11"	0' - 9"	0' - 9"
#5	1' - 2"	1' - 0"	0' - 11"
#6	1' - 4"	1' - 2"	1' - 1"
#7	1' - 7"	1' - 5"	1' - 3"
#8	1' - 10"	1' - 7"	1' - 5"

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

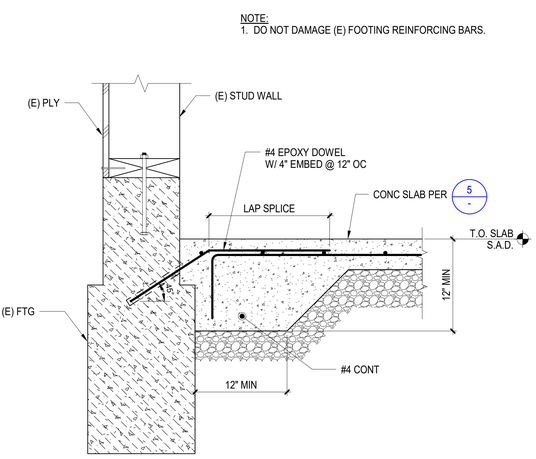


MAIN REINFORCING HOOKS			
BAR SIZE	BEND DIAMETER, D (IN)	90° HOOK L (IN)	180° HOOK L (IN)
#3	2 1/4	4 1/2	2 1/2
#4	3	6	2 1/2
#5	3 3/4	7 1/2	2 1/2
#6	4 1/2	9	3
#7	5 1/4	10 1/2	3 1/2
#8	6	12	4

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

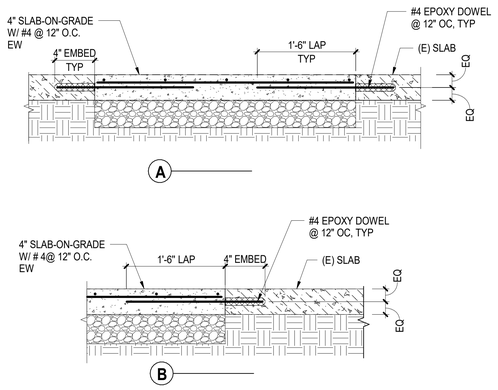
3 TYPICAL BAR HOOKS

NTS



12 SECTION AT EXISTING FOOTING

1 1/2" = 1'-0"



9 (E) SLAB-ON-GRADE REPAIR

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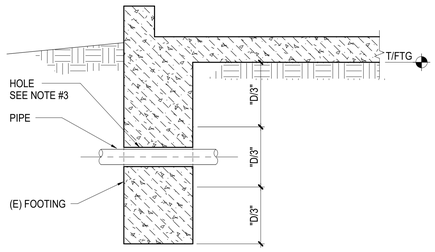

NOTES:
1. PRIOR TO DRILLING FOR HOLE, LOCATE (E) REINFORCING. DO NOT CUT (E) REINFORCING AND MAINTAIN 1 1/2" CLR AROUND HOLE.
2. MAXIMUM PIPE SIZE 6" DIA UNLESS OTHERWISE NOTED.
3. PROVIDE 1" MINIMUM GAP BETWEEN PIPE AND HOLE ALL AROUND PIPE.
4. LOCATE PIPE WITHIN MIDDLE 1/3 OF (E) FOOTING DEPTH.
5. 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"

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REVISIONS

#	NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
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MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
TYPICAL CONCRETE DETAILS

INCREMENT: INC.2

DRAWN BY: SN JOB NUMBER: 23119.01

SHEET NO.
2S-501

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS 100%

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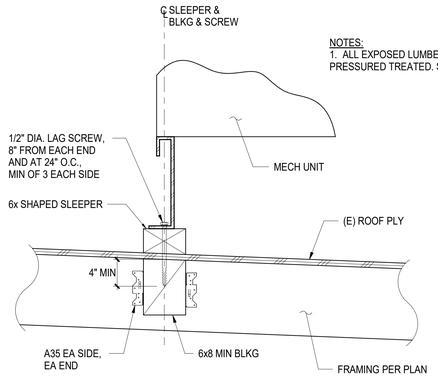

10 MECHANICAL UNIT SUPPORT DETAIL

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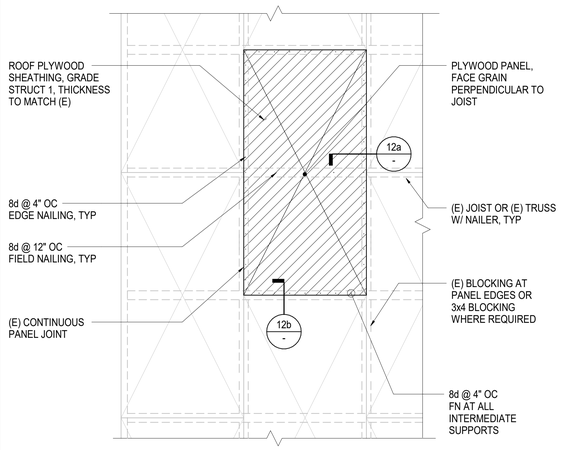
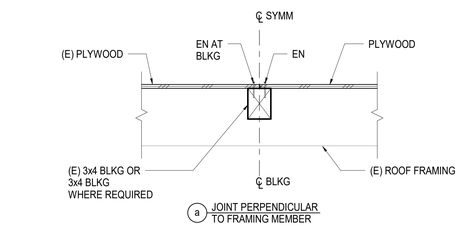
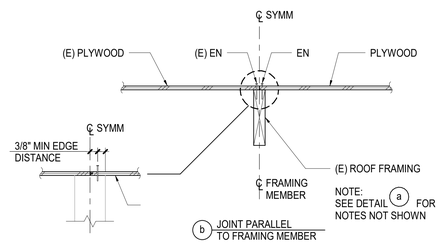


NOTES:
1. FOR 8d NAILS, PROVIDE 1 3/8 MIN PENETRATION INTO FRAMING.
2. REPLACE DAMAGED SHEET FULLY.

11 PLYWOOD SHEATHING AT ROOF

NTS





12 PLYWOOD NAILING

NTS

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" 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" × 0.131" nails; 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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INCREMENT: INC.2

DRAWN BY: SN JOB NUMBER: 23119.01

SHEET NO.
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DATE: JULY 30, 2024

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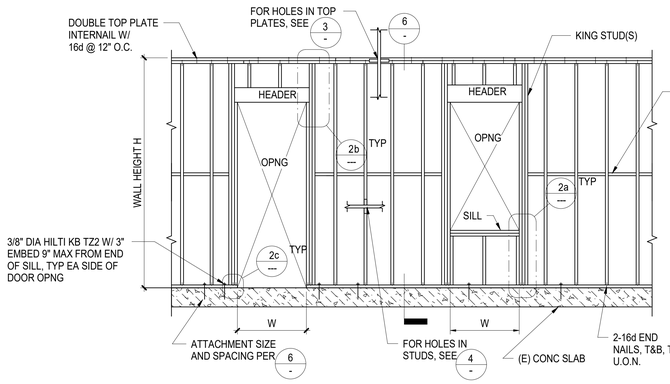


NON-BEARING WALL STUD SCHEDULE		
WALL HEIGHT	STUD SIZE	SPACING
H < 14'-0"	2x6 2x4	16"

b

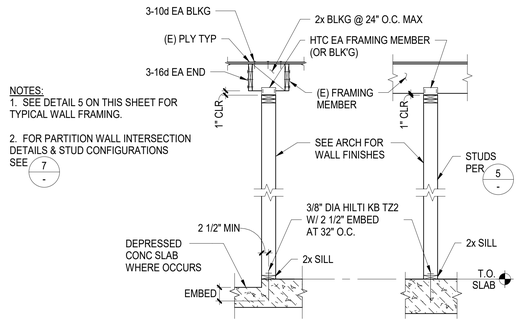
NON-BEARING WALL SCHEDULE AT OPENINGS				
OPENING WIDTH	KING STUD(S)	HEADER DEPTH	BEARING STUD(S)	SILL
W< 6'-0"	2x	6x	1-2x	2-2x

a

NOTE:
STUD, SILL, AND HEADER WIDTHS TO MATCH WALL FRAMING SIZE.

5 TYPICAL INTERIOR NON-BEARING WALL FRAMING

NTS

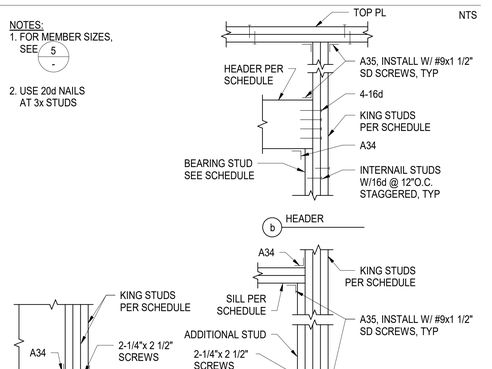


NOTES:
1. SEE DETAIL 5 ON THIS SHEET FOR TYPICAL WALL FRAMING.
2. FOR PARTITION WALL INTERSECTION DETAILS & STUD CONFIGURATIONS SEE 7 -

a PARTITION PARALLEL TO JOIST

b PARTITION PERPENDICULAR TO JOIST

NOTES:
1. FOR MEMBER SIZES, SEE 5 -
2. USE 20d NAILS AT 3x STUDS

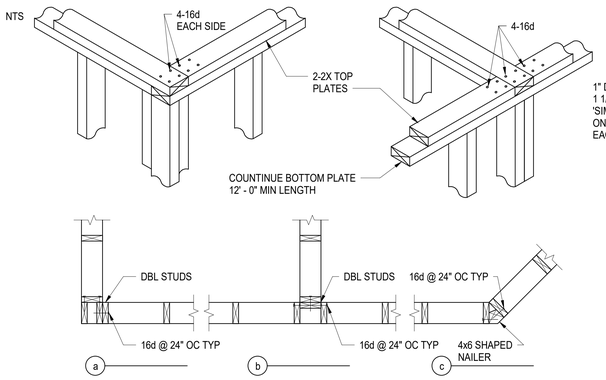


c BASE AT DOOR OPENING

a BASE AT WINDOW OPENING

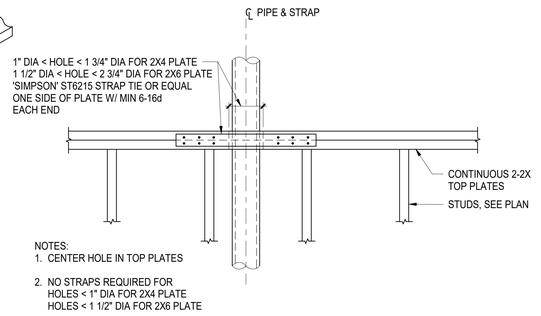
6 NON-BEARING WALL PARTITION

NTS



2 WALL OPENING

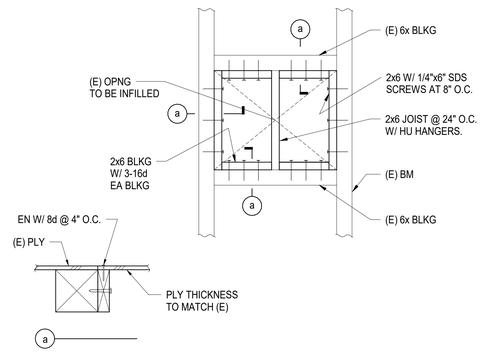
NTS



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

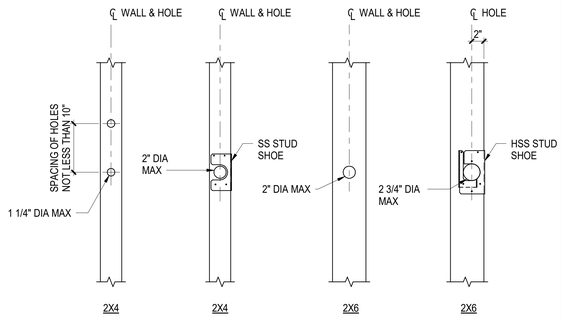
7 WALL INTERSECTIONS

NTS



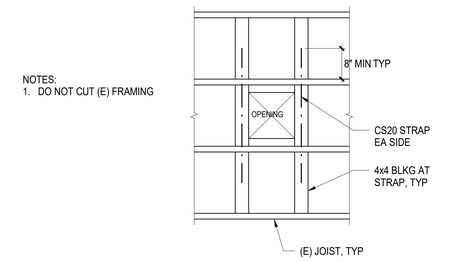
3 TOP PLATE PENETRATIONS

NTS



8 INFILL OF EXISTING OPENING

NTS



NOTES:
1. DO NOT CUT (E) FRAMING

14 SMALL OPENING IN DIAPHRAGM (21"x21" MAX)

NTS

4 PENETRATIONS IN STUDS

NTS

AGENCY APPROVAL DSA# 01-121400

196
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER GOKHAN AKALAN NO. 5594 STRUCTURAL 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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
FRAMING DETAILS

INCREMENT: INC.2

DRAWN BY: SN JOB NUMBER: 23119.01

SHEET NO.
2S-801

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS 100%

DATE PLOTTED: 8/7/2024 10:24:56 AM FILE LOCATION: C:\Users\Ventura Priego\Desktop\Work from Home COVID19\23162 - Meadow Homes ES Modernization\Drawings\Structural\Increment 2\23162 - Meadow Homes ES Modernization - R23.rvt

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 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
CONT		CONTINUATION
		BALL VALVE
OR		VALVE
CKV		CHECK VALVE
T&PRV		TEMP. & PRESS. RELIEF VALVE
GPR		GAS PRESSURE REGULATOR
		CIRCULATION PUMP (DOMESTIC)
WHA		WATER HAMMER ARRESTOR
TP		TRAP PRIMER ACCESS PANEL
GCO/FCO		GRADE CLEAN-OUT/FLOOR CLEAN-OUT
WCO		WALL CLEAN-OUT
HB		HOSE BIBB
		UNION
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		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
AFUE	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 A&C - DEMO & NEW FLOOR PLANS - MECHANICAL & PLUMBING
2MP-202 BLDG B - DEMO & NEW FLOOR PLANS - MECHANICAL & PLUMBING
2MP-203 BLDG D - DEMO & NEW FLOOR PLANS - MECHANICAL & PLUMBING
2MP-204 BLDG E - DEMO & NEW FLOOR PLANS - MECHANICAL & PLUMBING
2MP-205 BLDGS MULTI-USE - DEMO & NEW FLOOR PLANS - MECHANICAL & PLUMBING
2MP-301 BLDGS B, C, & MU - DEMO & NEW ROOF PLAN - MECHANICAL & PLUMBING
2MP-401 BLDG E - DEMO & NEW RESTROOM PLANS - MECHANICAL & PLUMBING
2MP-402 BLDG E - DEMO & NEW RESTROOM PLANS - MECHANICAL & PLUMBING
2MP-501 CONTROLS - MECHANICAL
2MP-601 DETAILS - MECHANICAL & PLUMBING
2MP-602 DETAILS - MECHANICAL & PLUMBING
2MP-801 T24 - MECHANICAL

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REGISTERED PROFESSIONAL ENGINEER — MARTIN SERTIC — No. M 31709 — MECHANICAL — STATE OF CALIFORNIA
DSA SET 07/29/24

REVISIONS

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SHEET TITLE
LEGENDS & NOTES - MECHANICAL & PLUMBING
INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.
2MP-001
DATE: JULY 29, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: K:\Shared Drives\HVAC\19-6 Nineteen Six\23145 - Meadow Homes ES Mod\03 Dwgs\Meadow Homes ES Mod Inc 2.dwg
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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	1
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	2, 3
MS-1	MOP SINK	AMERICAN STANDARD	FLORWELL SERVICE SINK 7745.811	3"	3"	2"	3/4"	3/4"	—	—	CHICAGO FAUCETS 897-RCF	—	7721.038	—	—	—	N	4
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 500116.055	—	—	—	—	—	—	N	2, 3

1. PROVIDE WITH ELKAY LK1441A BUBBLER.
2. FOR RESTROOM PLUMBING FIXTURE HEIGHTS REFER TO ARCHITECT DETAILS.
3. FOR ADA FIXTURE LOCATIONS SEE ARCHITECT PLANS.
4. PROVIDE W/ VINYL RIM GUARD & 7721.038 FLAT GRID DRAIN.

WATER HEATERS SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL NO.	LOCATION	CAPACITY GAL	GAS INPUT MBH	RECOVERY GPH	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
								KW	AMPS	V / PH			
WH-A-1	ELECTRIC W/ STORAGE	A.O. SMITH	DEL-20	BLD A CUSTODIAN C1	20	—	14	3	—	208 / 1	185	7/2MP-602	1, 2
WH-D-1	ELECTRIC W/ STORAGE	A.O. SMITH	DEL-20	BLD D.1 CUSTODIAN C2	20	—	14	3	—	208 / 1	185	7/2MP-602	1, 2
WH-D-2	ELECTRIC W/ STORAGE	A.O. SMITH	DEL-20	BLD D.2 CUSTODIAN C3	20	—	14	3	—	208 / 1	185	7/2MP-602	1, 2

1. PROVIDE W/ HOLDRITE 30-SWHP-WM WALL HUNG PLATFORM
2. SEE DETAIL 8/2MP-602 FOR PIPING.

PACKAGED AIR CONDITIONING UNITS SCHEDULE (OWNER FURNISHED CONTRACTOR INSTALLED)

TAG	LOCATION	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-MU-1	MU ROOF	CARRIER	48GCDM12C3M5	PE-MU-1	123.18	91.09	180 140	147.6 98	4,000	1.50	400	1000	1,885	3.52	17.2 IEER	82	208 / 3	59	70	1825	1/2MP-601	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
AC-MU-2	MU ROOF	CARRIER	48GCDM12C3M5	PE-MU-2	123.18	91.09	180 140	147.6 98	4,000	1.50	400	1000	1,885	3.52	17.2 IEER	82	208 / 3	59	70	1825	1/2MP-601	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
AC-C-8	BLD C ROOF	CARRIER	48GCLT04A3A3-3A3A00	—	35.67	25.56	60	49	1,200	1.50	200	500	2,340	0.94	16	81	208 / 1	30	40	660	2/2MP-601	1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13
AC-C-9	BLD C ROOF	CARRIER	48GCLT04A3A3-3A3A00	—	35.67	25.56	60	49	1,200	1.50	200	500	2,340	0.94	16	81	208 / 1	30	40	660	2/2MP-601	1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13

1. WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES.
2. FURNISHED WITH ULTRA LOW LEAK ECONOMIZER, SEE POWER EXHAUST / ECONOMIZER SCHEDULE IF APPLICABLE.
3. FURNISHED WITH LOUVERED HAIL GUARDS, UN POWERED CONVENIENCE OUTLET, AND HINGED ACCESS PANELS.
4. PROVIDE WITH MERV 13 FILTERS.
5. FURNISHED WITH ECONOMIZER / POWERED EXHAUST CONTROLLER. COORDINATE WITH MANUFACTURER.
6. VERTICAL SUPPLY DISCHARGE & HORIZONTAL RETURN CONFIGURATION.
7. FURNISHED W/ CANFAB 1008-1C11A-CBC VIBRATION ISOLATION - STRUCTURALLY CALCULATED ROOF CURB OR EQUAL.
8. FURNISHED W/ FLUE DISCHARGE DEFLECTOR
9. PROVIDE MANUFACTURER SMOKE DETECTOR FIELD INSTALLED IN SUPPLY DUCT, WIRED TO SHUT DOWN UPON DETECTION OF SMOKE, PER 2022 CMC 608 & COORDINATE W/ ELECTRIC CONTRACTOR.
10. CONTRACTOR SHALL PROVIDE VICONICS VT8650, SEE 2MP-501.
11. 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.
12. FURNISHED W/ CANFAB 1005-CB11F-CBC - STRUCTURALLY CALCULATED ROOF CURB OR EQUAL.
13. VERTICAL SUPPLY& RETURN DISCHARGE CONFIGURATION.

POWER EXHAUST / ECONOMIZER SCHEDULE MU (OWNER FURNISHED CONTRACTOR INSTALLED)

TAG	MANUFACTURER	MODEL NO.	AC UNIT SERVED	AIRFLOW CFM	ESP IN. W.G.	MOTOR HP	ELECTRICAL			WEIGHT LBS	NOTES
							V / PH	MCA	MOCP		
PE-MU-1	CANFAB	1124-PE / MPE	AC-MU-1	4000	-	2.0	208 / 3	7.75	13.95	SEE NOTE 2	1, 2, 3, 4
PE-MU-2	CANFAB	1124-PE / MPE	AC-MU-2	4000	-	2.0	208 / 3	7.75	13.95	SEE NOTE 2	1, 2, 3, 4

1. PROVIDE WITH MODULATING SPEED POWER EXHAUST AND PRESSURE TRANSDUCER TO CONTROL TO BUILDING PRESSURE.
2. POWER EXHAUST WEIGHT INCLUDED IN AC UNIT TOTAL WEIGHT. SEE AC UNIT SCHEDULE.
3. ECONOMIZER DRY BULB OAT SENSOR & CONTROL.
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	MANUFACTURER	MODEL NO.	TYPE	AREA SERVED	AIRFLOW CFM	ESP IN. W.G.	FAN RPM	SOUND POWER SONES	MOTOR			WEIGHT LBS	MOUNTING DETAIL	NOTES
									WATTS	HP	V / PH			
EF-E-15T	GREENHECK	SP-A200	CEILING EXHAUST FAN	BLD E KINDER 15T	120	0.25	648	1.1	19	—	115 / 1	35	3 OR 4/2MP-601	1, 2, 3
EF-E-16T	GREENHECK	SP-A200	CEILING EXHAUST FAN	BLD E KINDER 16T	120	0.25	648	1.1	19	—	115 / 1	35	3 OR 4/2MP-601	1, 2, 3
EF-E-17T	GREENHECK	SP-A200	CEILING EXHAUST FAN	BLD E KINDER 17T	120	0.25	648	1.1	19	—	115 / 1	35	3 OR 4/2MP-601	1, 2, 3
EF-E-18T	GREENHECK	SP-A200	CEILING EXHAUST FAN	BLD E KINDER 18T	120	0.25	648	1.1	19	—	115 / 1	35	3 OR 4/2MP-601	1, 2, 3
EF-E-19T	GREENHECK	SP-A200	CEILING EXHAUST FAN	BLD E KINDER 19T	120	0.25	648	1.1	19	—	115 / 1	35	3 OR 4/2MP-601	1, 2, 3

1. CONTROL W/ LIGHTS BY WALL SWITCH / OCCUPANCY SENSOR.
2. PROVIDE WITH UL LISTING, FAN MOUNTED SPEED CONTROL, AND BACKDRAFT DAMPER.
3. PROVIDE WITH FACTORY ISOLATION KIT.

ENERGY RECOVERY VENTILATOR SCHEDULE (OWNER FURNISHED CONTRACTOR INSTALLED)

TAG	MANUFACTURER	MODEL NO.	LOCATION	SUPPLY				EXHAUST				ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
				AIRFLOW CFM	ESP IN. W.G.	FAN SPEED	WATTS	AIRFLOW CFM	ESP IN. W.G.	FAN RPM	WATTS	V / PH	MCA	MOCP			
ERV-B-1	TRANE LOSSNAY	TLGHF0600RVX02A	BUILDING 5	600	0.86	100%	515	450	0.48	75%	515	208 / 1	5.2	15	125	4/2MP-601	1, 2, 3, 4

1. UNIT TO OPERATE ON BUILDING SCHEDULE BY EMS, SEE 2MP-501.
2. FURNISHED WITH MERV 14 OUTDOOR AIR FILTER AND MERV 8 EXHAUST AIR FILTER.
3. 4 FAN SPEEDS (25%, 50%, 75%, 100%)
4. FURNISHED W/ TZ-62DR-EA LOSSNAY CONTROLLER. SEE 2MP-501 FOR CONTROL DIAGRAM.

ROOF HOOD SCHEDULE

TAG	MANUFACTURER	MODEL NO.	TYPE	HOOD SIZE (IN)			THROAT SIZE (IN)		WEIGHT LBS	MOUNTING DETAIL	NOTES
				W	L	H	W	L			
RH-B-1	GREENHECK	GRSI- 15	INTAKE	29 Ø	—	12	14 Ø	—	35	12/2MP-601	1, 2, 3, 4
RH-B-2	GREENHECK	GRSR- 15	RELIEF	29 Ø	—	12	14 Ø	—	35	12/2MP-601	1, 2, 3, 4

1. WEIGHT INCLUDES ACCESSORIES.
2. PROVIDE WITH BACKDRAFT DAMPER & BIRD SCREEN.
3. PROVIDE W/ ROOF CURB.
4. SEE ARCH DRAWINGS FOR PAINTING

AIR DISTRIBUTION SCHEDULE

TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	BORDER TYPE	MOUNTING DETAIL	NOTES
CD-1	TITUS	MCD	CEILING DIFFUSER	SURFACE MOUNT	10/1MP-601	1
CD-2	TITUS	MCD	CEILING DIFFUSER	LAY-IN MOUNT	10/1MP-601	1
EG-1	TITUS	8R	EXHAUST GRILLE	SURFACE MOUNT	10/1MP-601	1
EG-2	TITUS	8R	EXHAUST GRILLE	LAY-IN MOUNT	10/1MP-601	1
RG-2	TITUS	8R	RETURN GRILLE	LAY-IN MOUNT	10/1MP-601	1
SWR-1	TITUS	350 RL	SIDE WALL RETURN	SURFACE MOUNT	11/2MP-601	1, 2

1. PRIME AND PAINT PER ARCHITECT'S INSTRUCTIONS.
2. PROVIDE W/ OPPOSED BLADE DAMPER.

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SHEET TITLE
SCHEDULES - MECHANICAL & PLUMBING

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.
2MP-002

DATE: JULY 29, 2024

CONSTRUCTION DOCUMENTS

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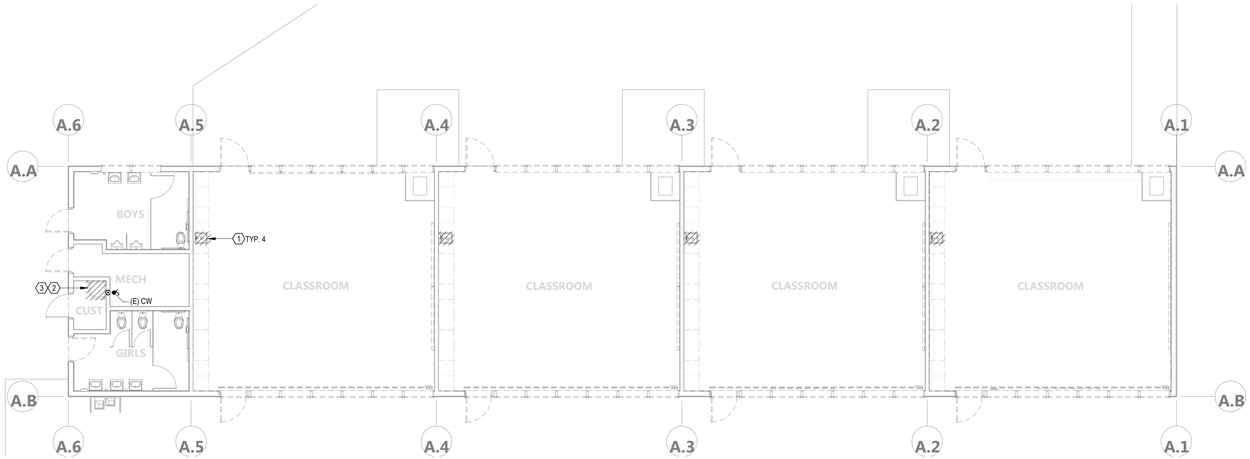
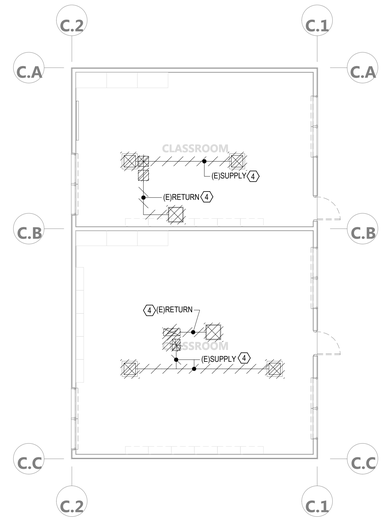


1 2MP-201 BLDG A FLOOR PLAN - DEMO - MECHANICAL & PLUMBING

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



2 2MP-201 BLDG C FLOOR PLAN - DEMO - MECHANICAL & PLUMBING

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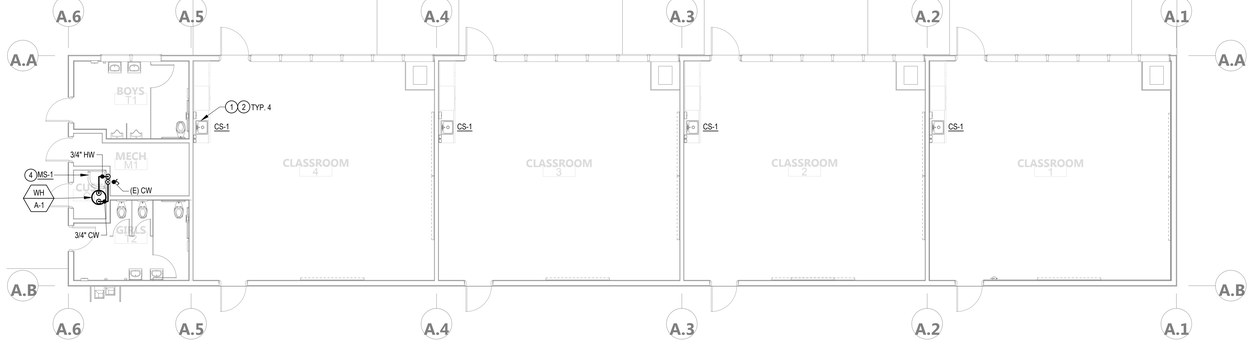
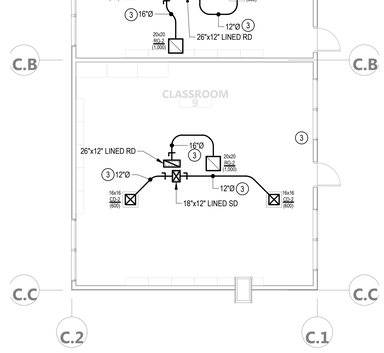


2 2MP-201 BLDG A FLOOR PLAN - NEW - MECHANICAL & PLUMBING

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



3 2MP-201 BLDG C FLOOR PLAN - NEW - MECHANICAL & PLUMBING

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

(#) 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) T-BAR CEILING TO BE REINSTALLED WITH NEW DUCT DUCTWORK & REGISTERS. LOCATE REPLACEMENT REGISTERS IN LOCATIONS OF THE REMOVED (E) REGISTERS. REFER TO ARCHITECT DRAWINGS FOR FURTHER DETAILS ON T-BAR CEILING.
4. CONNECT MOP SINK TO (E) PLUMBING CONNECTIONS, EXTEND PLUMBING AS REQUIRED.

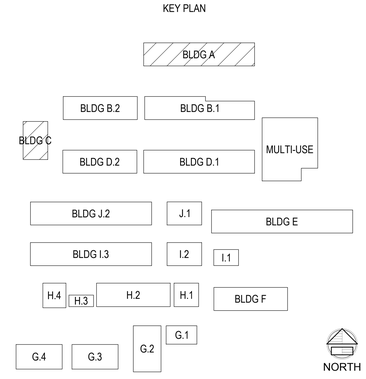
(#) DEMOLITION SHEET NOTES

1. REMOVE (E) SINK, PROTECT (E) UTILITIES IN WALL FOR CONNECTION TO NEW SINK.
2. REMOVE (E) UTILITY SINK, PROTECT (E) UTILITIES IN FOR CONNECTION TO NEW UTILITY SINK.
3. REMOVE (E) WATER HEATER & HW PIPING TO UTILITY SINK.
4. REMOVE (E) DUCTWORK & REGISTERS COMPLETE. REMOVE & PRESERVE (E) T-BAR CEILING AS REQUIRED FOR DEMOLITION WORK. T-BAR CEILING TO BE REINSTALLED WITH NEW DUCTWORK IS COMPLETE. REFER TO ARCHITECT DRAWINGS FOR FURTHER DETAILS ON T-BAR CEILING.

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.

KEY PLAN



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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

BLDGS A & C - DEMO & NEW FLOOR PLANS

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23119.01

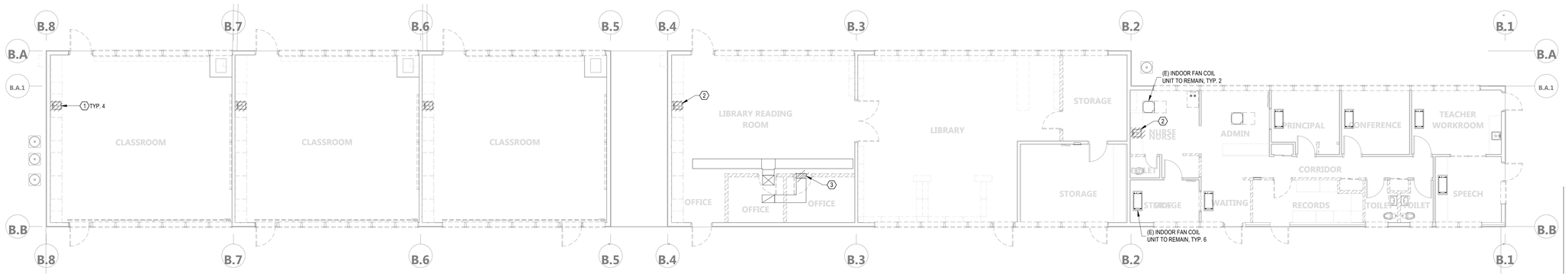
SHEET NO.

2MP-201

DATE: JULY 29, 2024

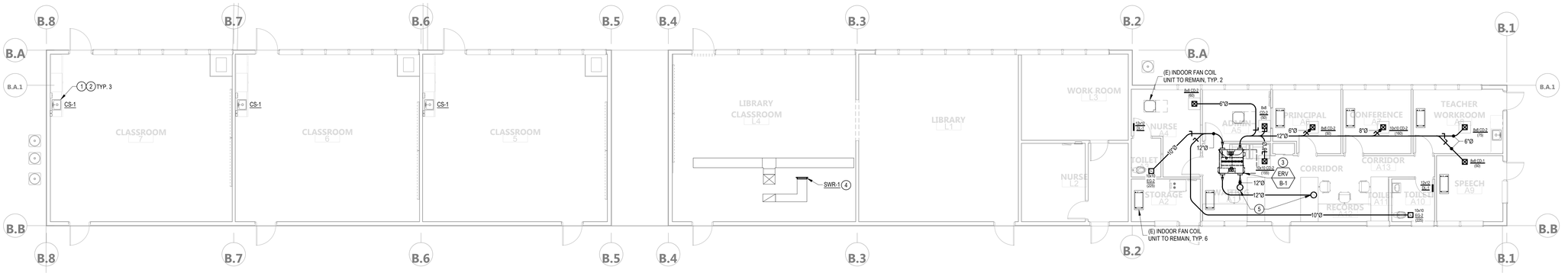
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/29/2024 2:48 PM FILE LOCATION: K:\Shared Drives\HVAC\19-6 Nineteen Six\23145 - Meadow Homes ES Mod\03 Dwgs\Meadow Homes ES Mod Inc 2.dwg



1 / 2MP-202 BLDGS B.1, B.2 FLOOR PLANS - DEMO - MECHANICAL & PLUMBING

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



2 / 2MP-202 BLDGS B.1, B.2 FLOOR PLANS - NEW - MECHANICAL & PLUMBING

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

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. INSTALL ERV-B-1 HUNG IN CEILING SPACE W/ DUCTWORK.
4. ADD NEW DUCT MOUNTED RETURN GRILLE. MATCH (E) SIZE OF THE REMOVED WALL RETURN GRILLE.
5. DUCT RISER TO ROOF HOODS RH-B-1 & RH-B-2 SEE ROOF PLAN 5/2MP-301.

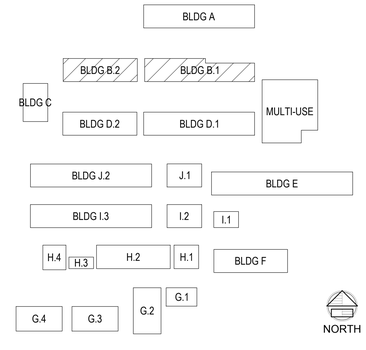
DEMOLITION SHEET NOTES

1. REMOVE (E) SINK, PROTECT (E) UTILITIES IN WALL FOR CONNECTION TO NEW SINK.
2. REMOVE (E) SINK, CAP UTILITIES IN WALL OR BELOW FLOOR.
3. REMOVE (E) WALL RETURN REGISTER & DUCT TRANSITIONS TO REGISTER. CAP DUCT END @ UPPER MAIN RETURN DUCT.

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.

KEY PLAN



AGENCY APPROVAL DSA# 01-121400

196

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CEG JOB NO: 23145

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — ROBERT JOSEPH SERTIC — No. M 24006 — MECHANICAL — STATE OF CALIFORNIA

DSA SET
05/29/24

REVISIONS

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MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
BLDGS B.1, B.2 - DEMO & NEW FLOOR PLANS

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.
2MP-202

DATE: JULY 29, 2024

CONSTRUCTION DOCUMENTS

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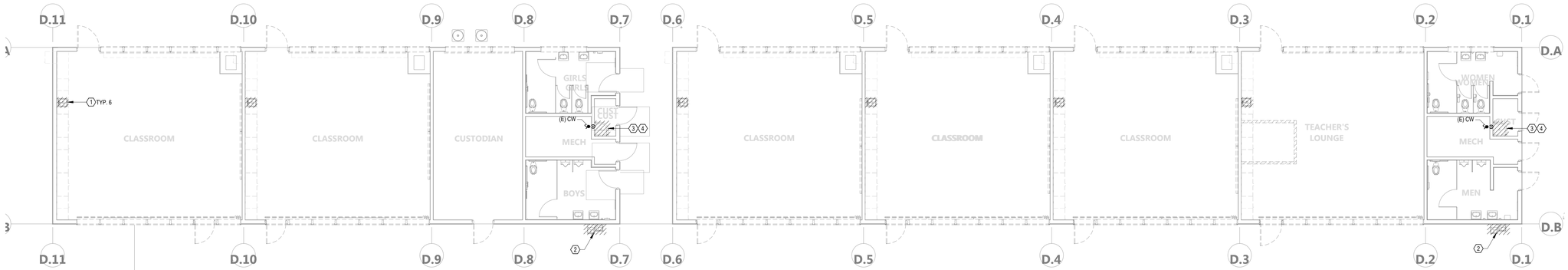
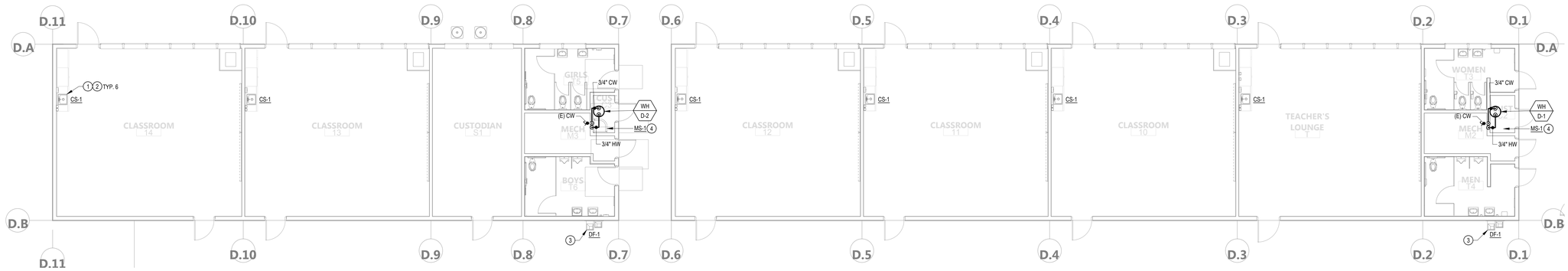


1 2MP-203 BLDGS D.1, D.2 FLOOR PLANS - DEMO - MECHANICAL & PLUMBING

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



2 2MP-203 BLDGS D.1, D.2 FLOOR PLANS - NEW - MECHANICAL & PLUMBING

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

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. CONNECT MOP SINK TO (E) PLUMBING CONNECTIONS, EXTEND PLUMBING AS REQUIRED.

DEMOLITION SHEET NOTES

1. REMOVE (E) SINK, PROTECT (E) UTILITIES IN WALL FOR CONNECTION TO NEW SINK.
2. REMOVE (E) DRINKING FOUNTAIN, PROTECT (E) UTILITIES IN WALL FOR CONNECTION TO NEW DRINKING FOUNTAIN.
3. REMOVE (E) UTILITY SINK, PROTECT (E) UTILITIES IN FOR CONNECTION TO NEW UTILITY SINK.
4. REMOVE (E) WATER HEATER & HW PIPING TO UTILITY SINK.

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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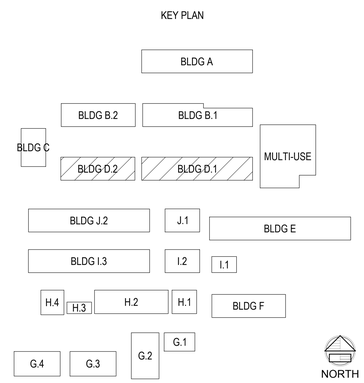
KEY PLAN



AGENCY APPROVAL DSA# 01-121400

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5433 El Camino Ave. Ste 5
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TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — MECHANICAL — STATE OF CALIFORNIA

DSA SET
07/29/24

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
BLDGS D.1, D.2 - DEMO & NEW FLOOR PLANS
INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.
2MP-203

DATE: JULY 29, 2024

CONSTRUCTION DOCUMENTS

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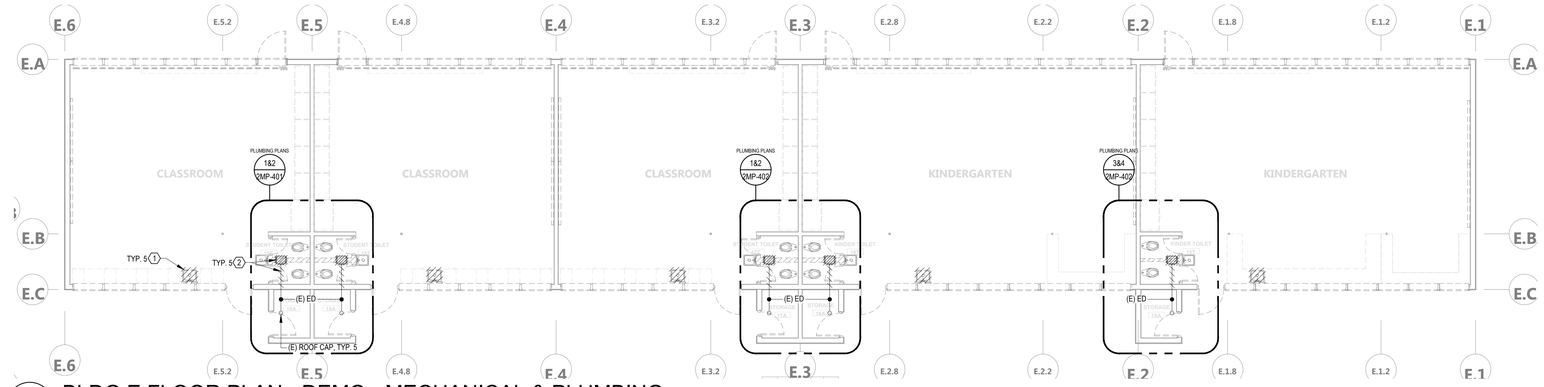
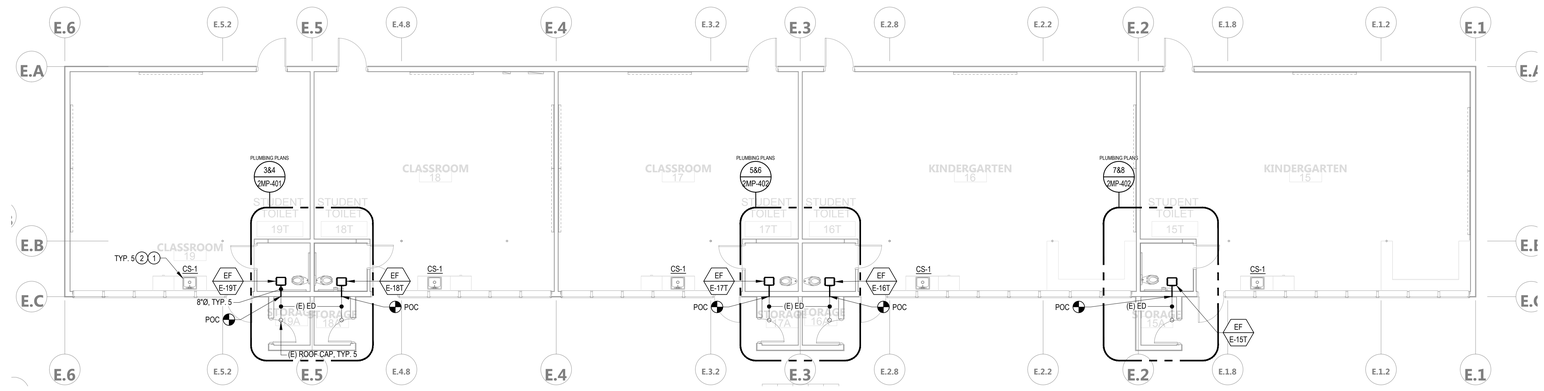


1 2MP-204 BLDG E FLOOR PLAN - DEMO - MECHANICAL & PLUMBING

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



2 2MP-204 BLDG E FLOOR PLAN - NEW - MECHANICAL & PLUMBING

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

(E) 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.

(E) DEMOLITION SHEET NOTES

1. REMOVE (E) SINK, PROTECT (E) UTILITIES IN WALL FOR CONNECTION TO NEW SINK.
2. REMOVE (E) CEILING EXHAUST FAN COMPLETE. (E) ED IN RESTROOM TO BE REMOVED AS REQUIRED FOR CONNECTION TO NEW EXHAUST FAN AND (E) ED IN EXTERIOR LOWER ROOF TO ROOF CAPS TO BE REUSED.

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.
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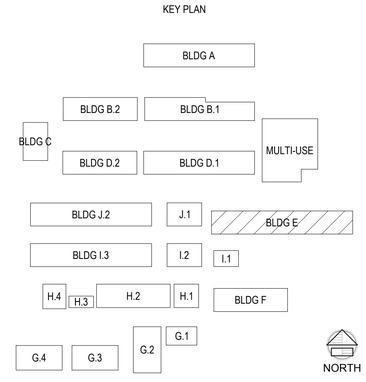

AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — KEVIN SERTTAS — No. M34092 — MECHANICAL — STATE OF CALIFORNIA

DSA SET 07/29/24

REVISIONS

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SHEET TITLE

BLDG E - DEMO & NEW FLOOR PLANS

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.

2MP-204

DATE: JULY 29, 2024

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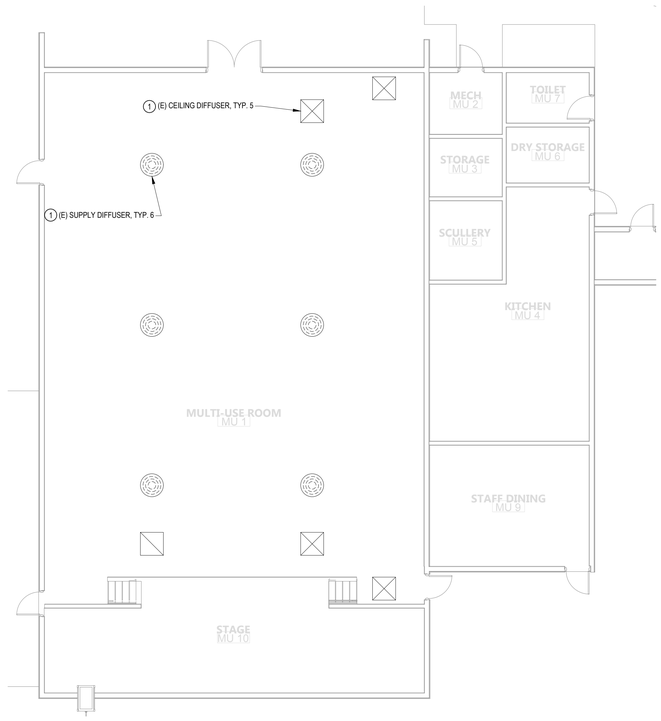

1 / 2MP-205 MULTI-USE BLDG FLOOR PLAN - NEW - MECHANICAL & PLUMBING

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

GENERAL NOTES

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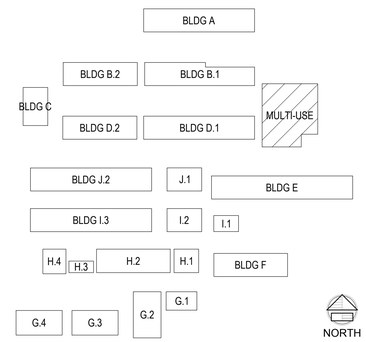
(#) NEW SHEET NOTES

1. (E) DUCTS AND REGISTERS TO BE CLEANED & REUSED.

KEY PLAN



AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — RYAN M. HOOK — MECHANICAL — STATE OF CALIFORNIA

DSA SET
07/29/24

REVISIONS

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MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

MULTI-USE - DEMO & NEW FLOOR PLANS

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.

2MP-205

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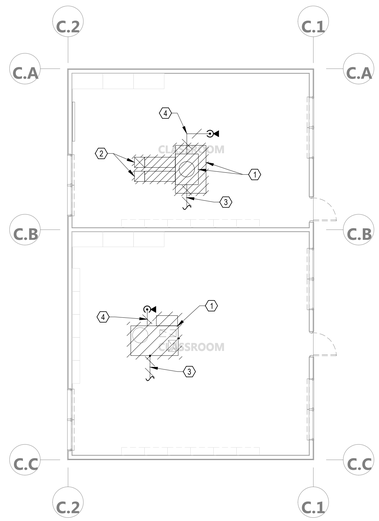
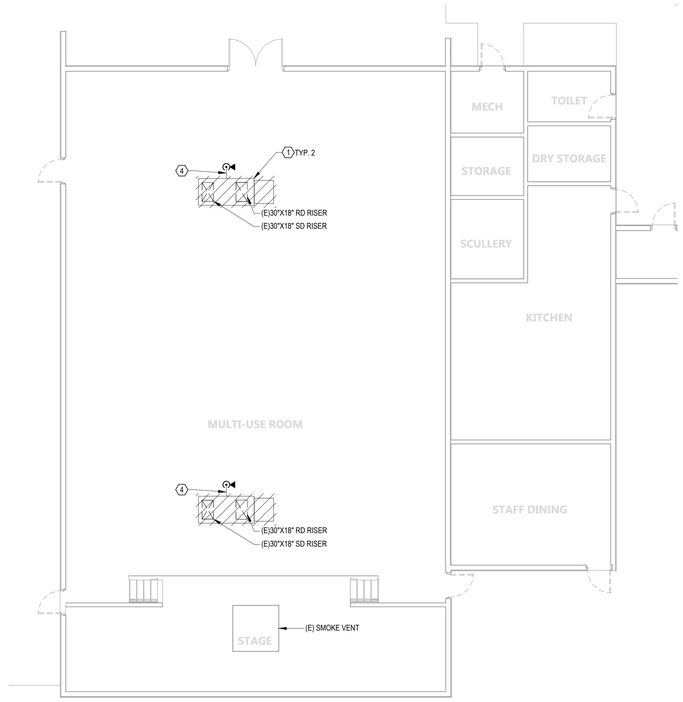


1 / 2MP-301 BLDG C ROOF PLAN - DEMO - MECHANICAL & PLUMBING

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



3 / 2MP-301 MULTI-USE BLDG ROOF PLAN - DEMO - MECHANICAL & PLUMBING

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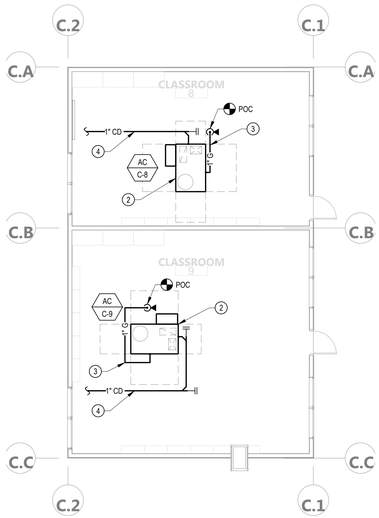
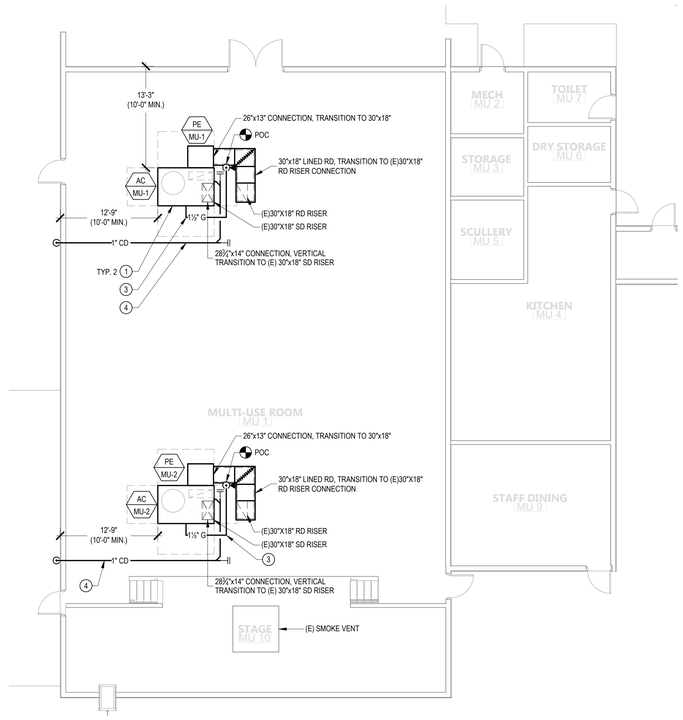


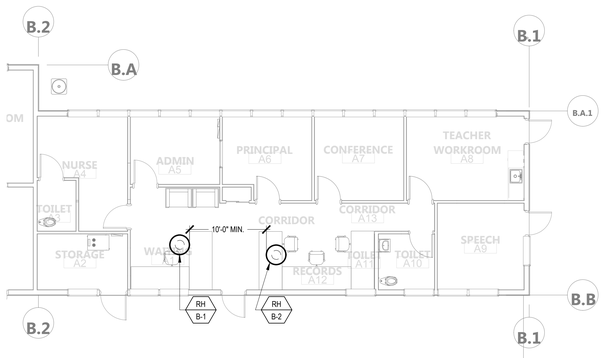
2 / 2MP-301 BLDG C ROOF PLAN - NEW - MECHANICAL & PLUMBING

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



4 / 2MP-301 MULTI-USE BLDG ROOF PLAN - NEW - MECHANICAL & PLUMBING

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



5 / 2MP-301 BLDG B ROOF 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.
6. FOR DUCT SUPPORT ON ROOF SEE DETAIL 9/2MP-601.

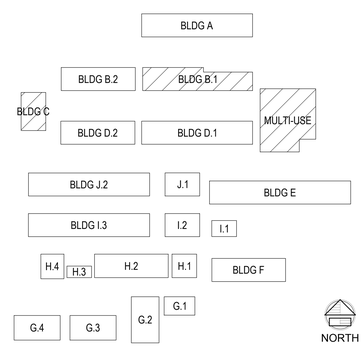
(E) DEMOLITION SHEET NOTES

1. REMOVE (E) AC UNIT & (E) ROOF CURB COMPLETE. PRESERVE ROOF OPENING FOR NEW AC UNIT.
2. REMOVE (E) EXTERIOR DUCTWORK ON ROOF. CAP & SEAL (E) ROOF PENETRATIONS, REFER TO ARCHITECT DRAWINGS FOR ROOFING DETAILS.
3. REMOVE (E) CD PIPING COMPLETE.
4. REMOVE (E) GAS PIPING BACK TO POC SHOWN ON NEW ROOF PLAN.

(N) NEW SHEET NOTES

1. INSTALL AC UNIT ON ROOF CURB. ENSURE CORRECT UNIT ORIENTATION & ALIGNED WITH THE (E) SUPPLY CONNECTION AND CONNECT TO (E) SUPPLY AND RUN LINED EXPOSED RETURN DUCTWORK TO (E) RETURN DUCTWORK CONNECTION. (E) DUCTWORK & CONNECTIONS SHALL BE FIELD VERIFIED. SEE ARCHITECT & STRUCTURAL DRAWINGS FOR ROOFING & FRAMING DETAILS.
2. INSTALL AC UNIT ON ROOF CURB. ENSURE CORRECT UNIT ORIENTATION. SEE ARCHITECT & STRUCTURAL DRAWINGS FOR ROOFING & FRAMING DETAILS.
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.
4. INSTALL CD PIPING WITH P-TRAP TO AC UNIT. ROUTE & SLOPE TO NEAREST ROOF DRAIN OR GUTTER, 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.

KEY PLAN



AGENCY APPROVAL DSA# 01-121400

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TEL (916) 359-4000

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — JOHN W. HOOPS — MECHANICAL — STATE OF CALIFORNIA

DSA SET 07/29/24

REVISIONS

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

BLDGS B, C & MU - DEMO & NEW ROOF PLAN

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23119.01

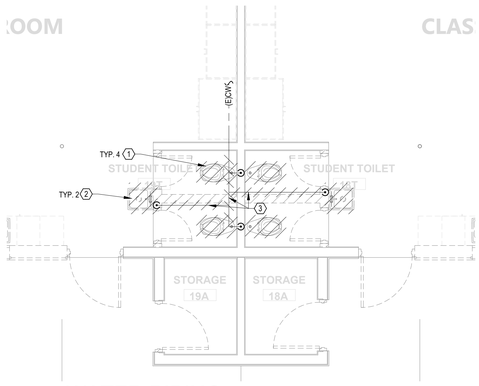
SHEET NO.

2MP-301

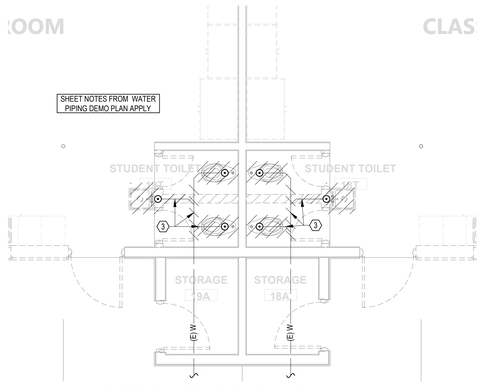
DATE: JULY 29, 2024

CONSTRUCTION DOCUMENTS

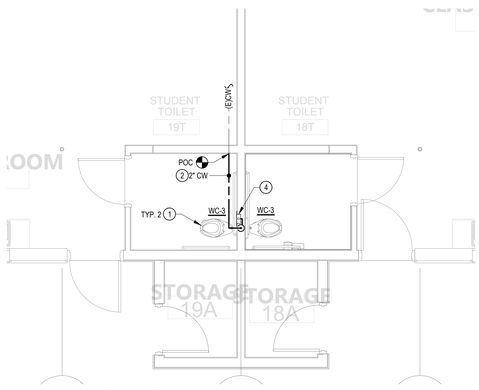
DATE PLOTTED: 7/29/2024 2:49 PM FILE LOCATION: K:\Shared Drives\HVAC\19-6 Nineteen Six\23145 - Meadow Homes ES Mod\03 Dwgs\Meadow Homes ES Mod Inc 2.dwg



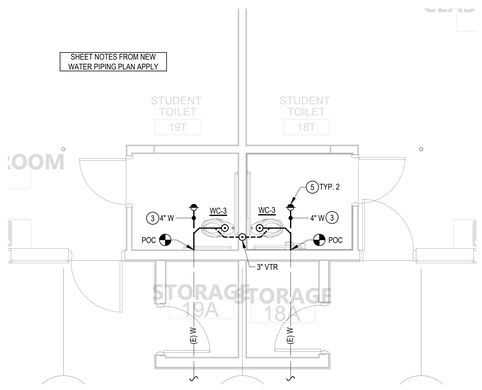
1 2MP-401 WATER PIPING
BLDG E RESTROOM PARTIAL DEMO PLAN
SCALE: 1/4" = 1'-0"



2 2MP-401 WASTE & VENT PIPING
BLDG E RESTROOM PARTIAL DEMO PLAN
SCALE: 1/4" = 1'-0"



3 2MP-401 WATER PIPING
BLDG E RESTROOM PARTIAL NEW PLAN
SCALE: 1/4" = 1'-0"



4 2MP-401 WASTE & VENT PIPING
BLDG E RESTROOM PARTIAL NEW PLAN
SCALE: 1/4" = 1'-0"

NEW SHEET NOTES

1. INSTALL RESTROOM PLUMBING FIXTURES.
2. OVERHEAD CW FROM POC HUNG IN CEILING SPACE & DROP DOWN BRANCHES TO FIXTURES.
3. UNDERGROUND WASTE FROM POC TO FIXTURES.
4. WHA IN WALL ACCESS PANEL, SEE DETAIL 2/2MP-602.
5. FLOOR CLEAN OUT, SEE DETAIL 3/2MP-602.

DEMOLITION SHEET NOTES

1. REMOVE (E) FLOOR MOUNT WATER CLOSET COMPLETE.
2. REMOVE (E) LAVATORY, SUPPORTS, & UTILITIES COMPLETE.
3. REMOVE (E) UTILITY LINES & BRANCH LINES COMPLETE BACK TO POC. REFER TO NEW PLANS FOR POC'S.

GENERAL NOTES

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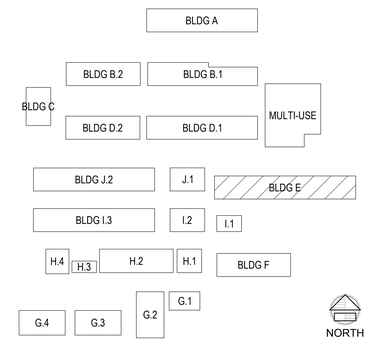
6. SAW CUT AND TRENCH THE EXISTING RESTROOM FLOORS WITHIN THE RESTROOMS AS REQUIRED TO INSTALL THE NEW WASTE, VENT, TRAP PRIMER LINES BELOW THE SLABS BACK TO THE POC'S. CHIP AND PATCH BACK (E) CONC. CURBS AS REQUIRED FOR (N) WASTE / VENT / TP CONNECTIONS IN (E) WALLS W/ CURBS. TRENCHING SHALL NOT DAMAGE 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.
8. PROVIDE FLOOR CLEAN OUTS & WALL CLEANOUTS AS NEEDED FOR NEW PLUMBING FIXTURE LAYOUTS.
9. FOR VTR SEE DETAIL 1/2MP-602.
10. FOR FLOOR CLEAN OUTS SEE DETAIL 3/2MP-602.

KEY PLAN



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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — ALAN SERTIC — No. M 43092 — MECHANICAL — STATE OF CALIFORNIA

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BLDG E - DEMO & NEW RESTROOM PLANS
INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.
2MP-401
DATE: JULY 29, 2024

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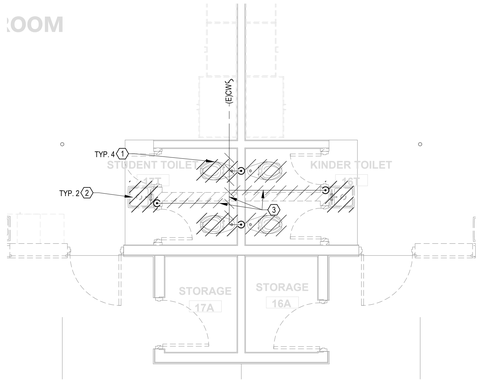
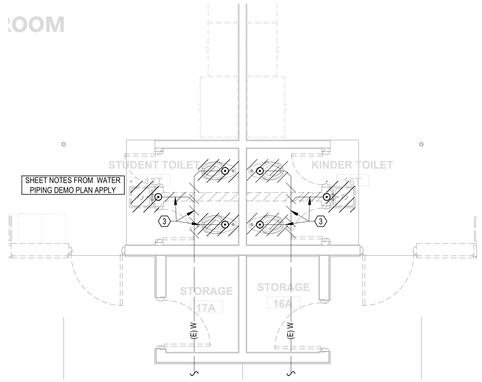


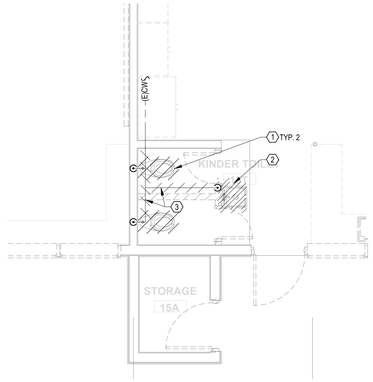
1 2MP-402 WATER PIPING BLDG E RESTROOM PARTIAL DEMO PLAN

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



2 2MP-402 WASTE & VENT PIPING BLDG E RESTROOM PARTIAL DEMO PLAN

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



3 2MP-402 WATER PIPING BLDG E RESTROOM PARTIAL DEMO PLAN

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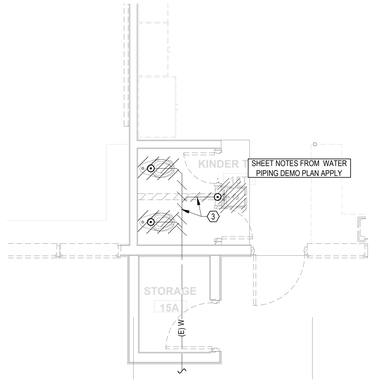

4 2MP-402 WASTE & VENT PIPING BLDG E RESTROOM PARTIAL DEMO PLAN

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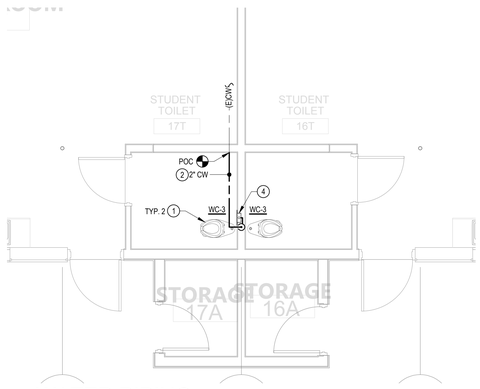
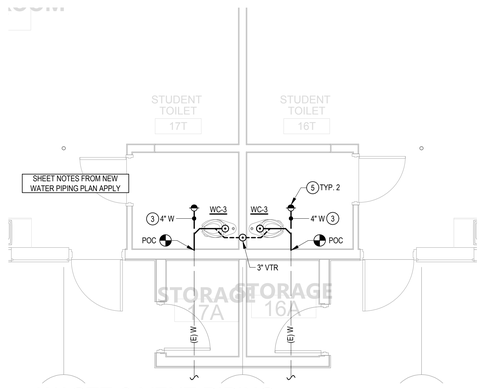


5 2MP-402 WATER PIPING BLDG E RESTROOM PARTIAL NEW PLAN

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



6 2MP-402 WASTE & VENT PIPING BLDG E RESTROOM PARTIAL NEW PLAN

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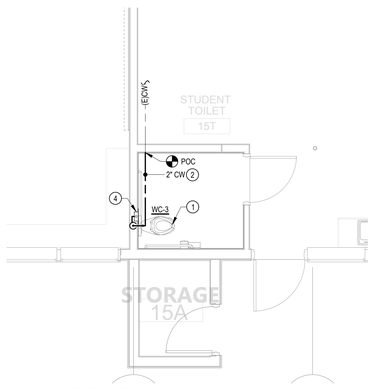

7 2MP-402 WATER PIPING BLDG E RESTROOM PARTIAL NEW PLAN

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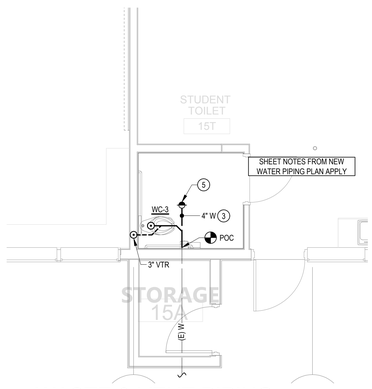

8 2MP-402 WASTE & VENT PIPING BLDG E RESTROOM PARTIAL NEW PLAN

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

NEW SHEET NOTES

1. INSTALL RESTROOM PLUMBING FIXTURES.
2. OVERHEAD CW FROM POC HUNG IN CEILING SPACE & DROP DOWN BRANCHES TO FIXTURES.
3. UNDERGROUND WASTE FROM POC TO FIXTURES.
4. WHA IN WALL ACCESS PANEL, SEE DETAIL 2/2MP-602.
5. FLOOR CLEAN OUT, SEE DETAIL 3/2MP-602.

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1. REMOVE (E) FLOOR MOUNT WATER CLOSET COMPLETE.
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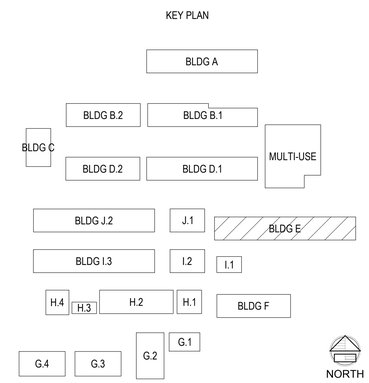

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DRAWN BY: RR JOB NUMBER: 23119.01

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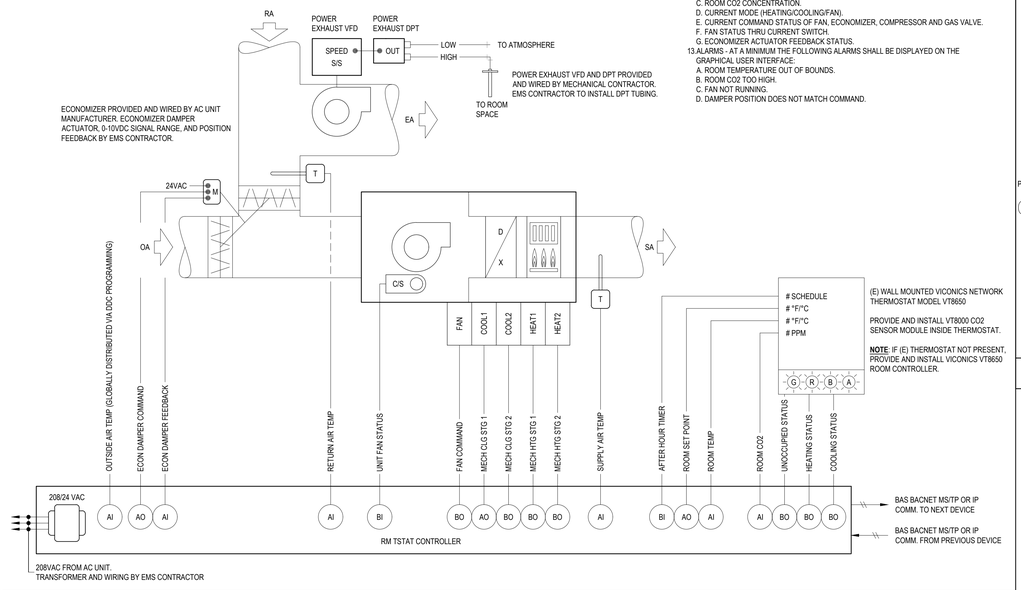
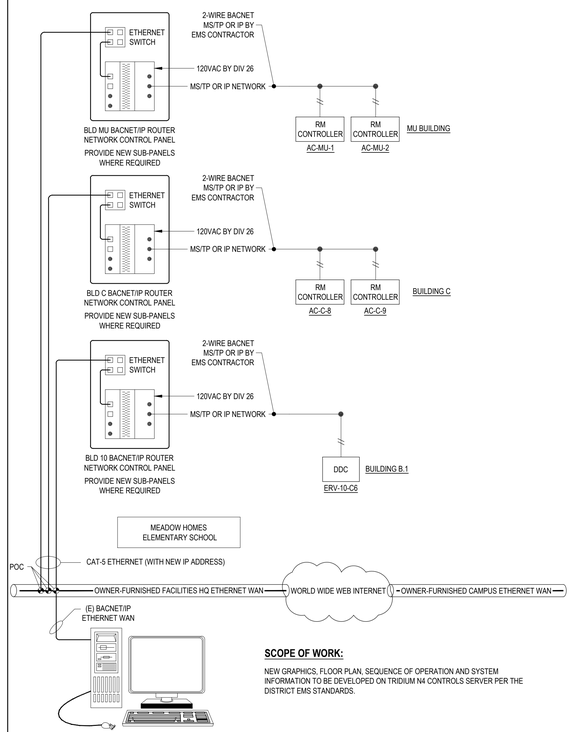
SEQUENCE OF OPERATION

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.



2 PACKAGED AC UNIT CONTROL SCHEMATIC



1 EMS SYSTEM ARCHITECTURE

GENERAL NOTES

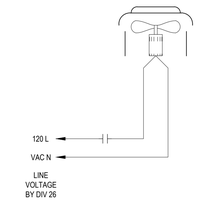
1. THE CONTROLS CONTRACTOR SHALL HAVE THE RESPONSIBILITY AS THE EXPERT IN THE PROPER APPLICATION OF CONTROL COMPONENTS AND DDC SYSTEMS. THE FINAL DESIGN, INSTALLATION, AND OPERATION OF THE CONTROL SYSTEM IS THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR. CONTROLS CONTRACTOR SHALL VISIT THE SITE BEFORE 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.

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.

SEQUENCE OF OPERATION

1. THE EXHAUST FAN SHALL BE HARD WIRED WITH THE ROOM LIGHTS AND OPERATE DURING NORMAL BUILDING OCCUPANCY HOURS.

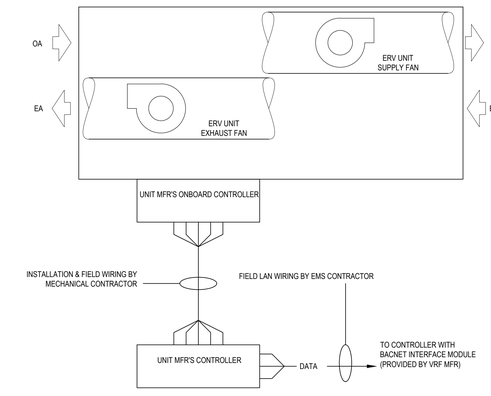


4 EXHAUST FAN CONTROL SCHEMATIC

SEQUENCE OF OPERATION

1. THE ERV UNIT SHALL OPERATE DURING NORMAL BUILDING OCCUPANCY HOURS BY EMS TIMECLOCK.
2. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED BY THE EMS VIA BACNET INTERFACE:
   A. SUPPLY FAN STATUS
   B. EXHAUST FAN STATUS
3. ALARM - IF THE FAN RUNS WHILE COMMANDED OFF OR DOES NOT RUN WHEN COMMANDED ON, AN ALARM SHALL BE DISPLAYED AND ANNUNCIATED AT OPERATOR'S CONSOLE

MINIMUM BACNET POINT INTEGRATION POINTS PER ZONE
ON/OFF STATUS
ON/OFF COMMAND
MODE STATUS
MODE COMMAND
FAN STATUS
FAN COMMAND
SET POINT STATUS
SET POINT COMMAND



3 ERV CONTROL SCHEMATIC

AGENCY APPROVAL DSA# 01-121400

196
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — MECHANICAL — STATE OF CALIFORNIA
DSA SET
07/29/24

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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
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Concord, CA 94520

SHEET TITLE
CONTROLS - MECHANICAL

INCREMENT: INC.2

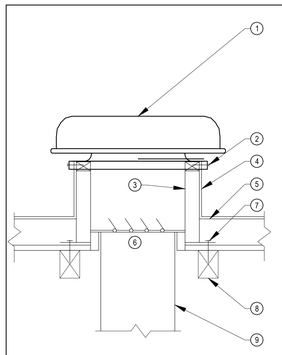
DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.
2MP-501

DATE: JULY 29, 2024

CONSTRUCTION DOCUMENTS

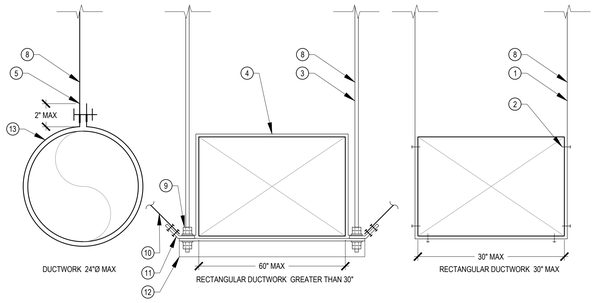
DATE PLOTTED: 7/29/2024 2:50 PM FILE LOCATION: K:\Shared Drives\HVAC\19-6 Nineteen Six\23145 - Meadow Homes ES Mod\03 Dwgs\Meadow Homes ES Mod Inc 2.dwg



DETAIL NOTES:

1. ROOF 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.

12 ROOF HOOD MOUNTING N.T.S.

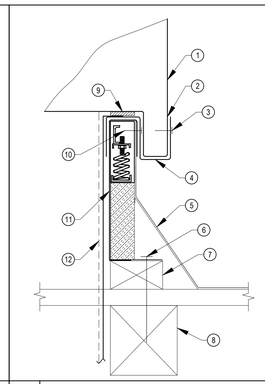


DETAIL NOTES:

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.

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.

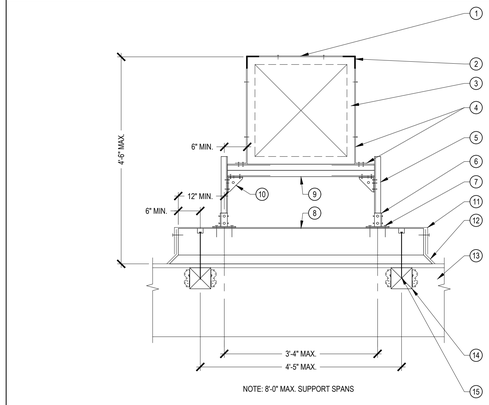
5 DUCT HANGER N.T.S.



DETAIL NOTES:

1. UNIT. FOR LOCATION, SEE PLANS
2. UNIT BASE RAIL, 14 GAUGE STEEL
3. 14 GA. x 7"L HOLD DOWNS SECURED TO UNIT BASE RAIL WITH (4) #10 x1/2" TEK SCREWS, TYP (2) @ SHORT SIDES & (3) @ LONG SIDES. SPACE EVENLY W/ 5" TO CORNER DISTANCES.
4. UNIT HOLD DOWNS AROUND CURB W/ 16" MAX. SPACING BETWEEN HOLD DOWNS. MIN. 3 PER A SIDE.
5. FOR FLASHING, SEE ARCHITECT'S DRAWINGS
6. SEE STRUCTURAL DETAILS FOR ANCHORAGE INFORMATION.
7. PRESSURE TREATED DOUGLAS FIR LEVELING RAIL
8. BLOCKING, SEE STRUCTURAL DRAWINGS.
9. SEALING GASKET
10. SECURE HOLD DOWN TO UNIT CURB WITH (4) #10 x 1/2" TEK SCREWS, TYP.
11. VIBRATION ISOLATION CURB BY UNIT MFR. 2" DEFLECTION ISOLATOR CALDYN CQA TYPE (SEE OPM-0401-13 REPORT FOR DETAILS)
12. DUCTWORK WITH ACOUSTIC LINER

1 ROOFTOP AIR CONDITIONER MOUNTING ON NEW ISOLATED CURB N.T.S.

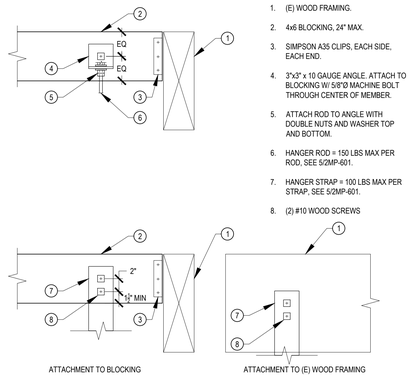


NOTE: 8'-0" MAX. SUPPORT SPANS

DETAIL NOTES:

1. MAX. 30"x30" DUCT, SEE PLANS FOR SIZES. BREAK TOP OF DUCT FOR 100% POSITIVE DRAINAGE.
2. 3"x3"x6" LONG 16 GA STRAP. CORNER GUARDS UNDER STRAP. #10 SM SCREWS (2) PER DUCT SIDE SEAL AIR TIGHT.
3. 2" ACOUSTICAL LINER. SEE SPECS.
4. 2"x16 GA. S.M. STRAP, SECURE TO SUPPORT WITH (2) 3/8"Ø BOLTS AND CHANNEL NUTS EA. SIDE.
5. "UNISTRUT" P1000 CHANNEL.
6. "UNISTRUT" P2942 POST BASE, SECURE TO CHANNEL WITH (2) 1/2"Ø BOLTS & NUTS.
7. SECURE POST BASE TO SLEEPER W/ (2) 1/2"Ø x 3"L CENTERED LAG SCREWS.
8. 6x10 MIN. SLEEPER.
9. "UNISTRUT" P1001 CHANNEL.
10. "UNISTRUT" P2484, SECURE TO CHANNELS W/ (4) 1/2"Ø BOLTS AND CHANNEL NUTS.
11. COUNTER FLASHING SEE ARCHITECT DETAILS.
12. ROOF UP AND UNDER COUNTER FLASHING SEE ARCHITECT DETAILS.
13. (E) STRUCTURE, SEE STRUCTURAL DRAWINGS FOR INFO NOT NOTED.
14. 6x6 BLOCKING WITH A35 FRAMING CLIPS EACH SIDE, EACH END.
15. COUNTER BORE SLEEPER & ATTACH TO BLOCKING W/ 1/2"Ø x 12"L LAG SCREW, MIN. 3" PENETRATION INTO BLOCKING.

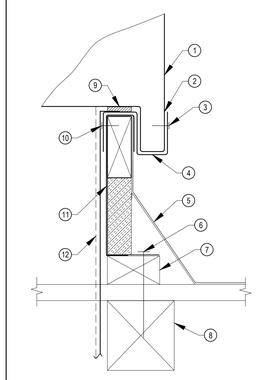
9 DUCT SUPPORT ON ROOF N.T.S.



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 5/2MP-601.
7. HANGER STRAP = 100 LBS MAX PER STRAP, SEE 5/2MP-601.
8. (2) #10 WOOD SCREWS

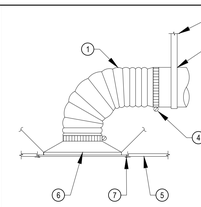
6 TOP CONNECTION N.T.S.



DETAIL NOTES:

1. 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. UNIT HOLD DOWNS AROUND CURB W/ 16" MAX. SPACING BETWEEN HOLD DOWNS. MIN. 3 PER A SIDE.
5. FOR FLASHING, SEE ARCHITECT'S DRAWINGS
6. SEE STRUCTURAL DETAIL 9/1S-801 FOR ANCHORAGE INFORMATION.
7. PRESSURE TREATED DOUGLAS FIR LEVELING RAIL
8. BLOCKING, SEE STRUCTURAL DRAWINGS.
9. SEALING GASKET
10. SECURE HOLD DOWN TO UNIT CURB WITH (4) #10 x 1/2" TEK SCREWS, TYP.
11. 14" HIGH CURB BY UNIT MFR.
12. DUCTWORK WITH ACOUSTIC LINER

2 ROOFTOP AIR CONDITIONER MOUNTING ON NEW CURB N.T.S.



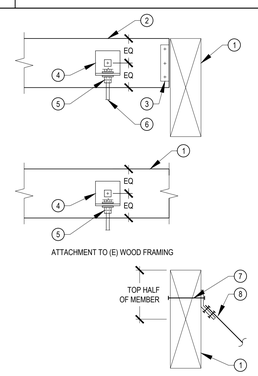
NOTES:

1. ALL CEILING MOUNTED AIR TERMINALS SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEM BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED.
2. CEILING MOUNTED AIR TERMINALS WEIGHING LESS THAN OR EQUAL TO 20 LBS. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL TO THE STRUCTURE.
3. CEILING MOUNTED AIR TERMINALS WEIGHING MORE THAN 20 LBS. BUT LESS THAN OR EQUAL TO 56 LBS SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL TO THE STRUCTURE ABOVE.
4. CEILING MOUNTED AIR TERMINALS WEIGHING MORE THAN 56 LBS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL TO THE STRUCTURE ABOVE.
5. SEE DETAILS 6&7/2MP-601 FOR ATTACHMENT TO STRUCTURE.

DETAIL NOTES:

1. FLEX DUCT @ CEILINGS (5'-0" MAX LENGTH).
2. SEE 6/2MP-601 FOR HANGER STRAP AND TOP CONNECTION.
3. METAL DUCT.
4. 3/8" BAND ON DUCT COLLARS, (TYP.).
5. CEILING, SEE ARCHITECT'S DRAWINGS.
6. REGISTER.
7. #10-1-1/4" SMS ATTACHED TO T-BAR AND AIR TERMINAL FRAME. MIN 4 ATTACHMENTS.

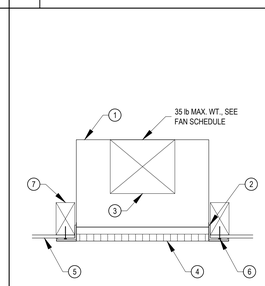
10 REGISTER DETAIL - CEILING MOUNTED N.T.S.



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 8/2MP-601.
7. 5/8"Ø THROUGH BOLT .
8. TOLCO FIG 991 CABLE SWAY BRACE ATTACHMENT W/ CABLE CLAMP, EA END.

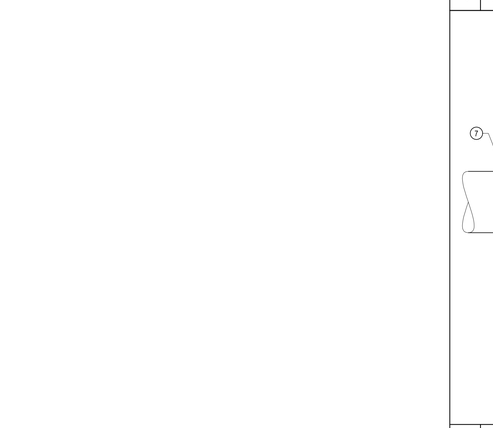
7 TOP CONNECTION N.T.S.



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.

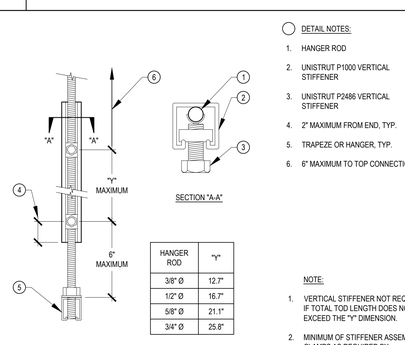
3 CEILING EXHAUST FAN DETAIL (MOUNTING OPTION 1) N.T.S.



DETAIL NOTES:

1. WALL.
2. 2x BLOCKING ALL AROUND.
3. REGISTER.
4. #8 WOOD SCREWS, TYP. OF 4.
5. SHEET METAL BOX WITH 1/2" ACOUSTIC LINING.
6. DUCT DIAMETER PLUS 3" MINIMUM.
7. METAL DUCT.

11 REGISTER DETAIL - SIDEWALL MOUNTED 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"

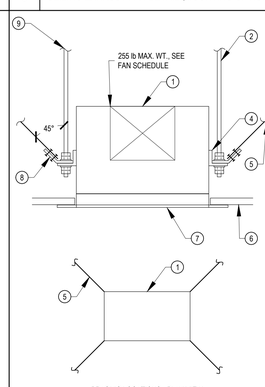
DETAIL NOTES:

1. HANGER ROD
2. UNISTRUT P1000 VERTICAL STIFFENER
3. UNISTRUT P2486 VERTICAL STIFFENER
4. 2" MAXIMUM FROM END, TYP.
5. TRAPEZE OR HANGER, TYP.
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.

8 ROD STIFFENER N.T.S.



BRACING LOCATIONS - PLAN VIEW

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 8/2MP-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.

4 CEILING EXHAUST FAN OR ERV DETAIL (HANGING OPTION 2) N.T.S.

AGENCY APPROVAL DSA# 01-121400

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Building Commissioning
Industrial Refrigeration
Environmental Compliance
Training & Technical Support

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
KEVIN M. STORM
MECHANICAL
STATE OF CALIFORNIA
DSA SET
07/29/24

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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
DETAILS - MECHANICAL & PLUMBING
INCREMENT: INC.2

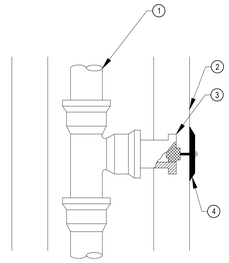
DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.
2MP-601

DATE: JULY 29, 2024

CONSTRUCTION DOCUMENTS

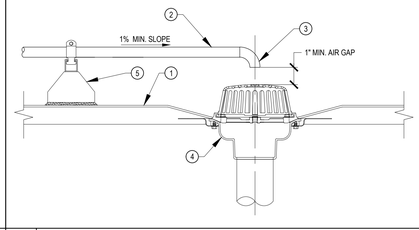
DATE PLOTTED: 7/29/2024 2:50 PM FILE LOCATION: K:\Shared Drives\HVAC\19-6 Nineteen Six\23145 - Meadow Homes ES Mod\03 Dwgs\Meadow Homes ES Mod Inc 2.dwg



DETAIL NOTES:

1. VENT, SOIL,WASTE OR LEADER STACK
2. WALL
3. WALL CLEANOUT
4. WALL PLATE AS SPECIFIED

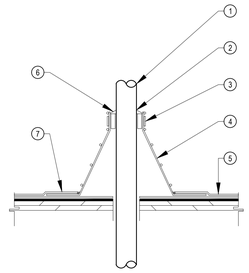
9 WALL CLEANOUT DETAIL N.T.S.



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.



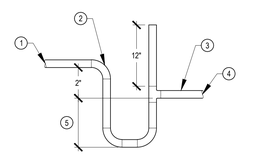
DETAIL NOTES:

1. PIPE. SEE DWGS FOR SIZE.
2. SEAL WATERTIGHT WITH MASTIC.
3. STAINLESS STEEL CLAMPING RING.
4. PRE-MOLDED PIPE FLASHING.
5. (E) ROOF. SEE ARCH DWGS.
6. PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE, REGARDLESS OF PIPE DIAMETER.
7. SEAL FLASHING WATERTIGHT TO ROOF PER ROOFING MANUFACTURER'S INSTRUCTIONS.

NOTE:

1. FIELD VERIFY ACTUAL ROOFING MATERIAL.

1 PIPE PENETRATION N.T.S.



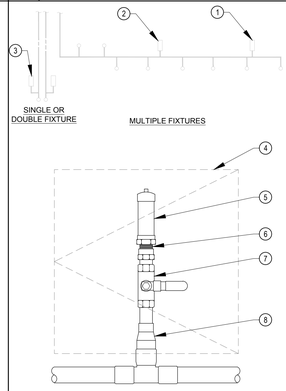
DETAIL NOTES:

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.



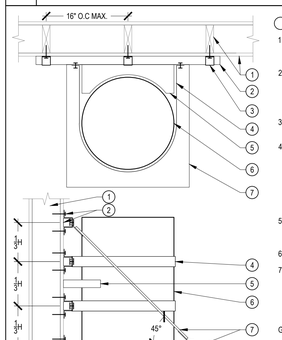
DETAIL NOTES:

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.



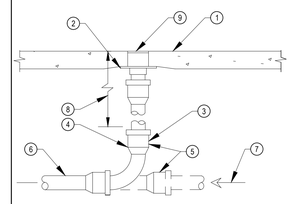
DETAIL NOTES:

1. (E)WALL W/ 2x WOOD STUDS @ 16" MAX. O.C. SEE ARCHITECT DRAWINGS & VERIFY CONDITIONS.
2. B-LINE B22 OR EQUAL STRUT CHANNEL MIN. 36"L. ATTACH TO WALL WITH 3/8"Ø x2½" LAG BOLTS W/ WASHERS.(6) PER STRUT THRU TOP & BOTTOM OF U-STYLE STRUT BRACKETS AND INTO STUDS.
3. U-STYLE STRUT BRACKETS UNISTRUT P1047 OR EQUAL.
4. HOLDRITE SEISMIC RESTRAINT STRAP, ATTACH TO STRUTS WITH 1/2"Ø BOLTS, WASHERS AND CHANNEL NUTS. TYPICAL PER CPC 2022 507.2: AT UPPER ONE THIRD (1/3) AND LOWER ONE-THIRD (1/3). A MINIMUM DISTANCE OF FOUR (4) INCHES SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.
5. 2x8 CHOCK BLOCK, CUT TO RADIUS OF WATER HEATER & MOUNT @ 1/2 WATER HEATER HEIGHT.
6. WATER HEATER.
7. HOLDRITE 30-SWHP-WM WALL HUNG PLATFORM WITH DRAIN PAN & SUPPORT RODS. ATTACH TO STRUTS WITH 1/2" Ø BOLTS, WASHERS, AND CHANNEL NUTS, TYPICAL.

GENERAL NOTES:

- MAX WEIGHT = 300 LBS
- SEE HOLDRITE MOUNTING INSTRUCTIONS FOR FURTHER DETAIL

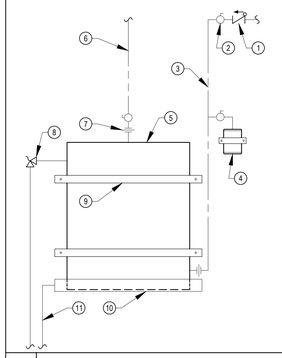
7 WATER HEATER FINISH WALL MOUNTING (WOOD STUD) N.T.S.



DETAIL NOTES:

1. (E) FLOOR SLAB ON GRADE
2. MEMBRANE CLAMP
3. LONG SWEEP ELBOW AT END OR TURN OF RUN
4. HUB AND SPIGOT CAST IRON PIPE BELOW FLOOR
5. COMBINED WYE AND EIGHT BEND IN RUN ENTER TOP OF PIPE.
6. SANITARY SEWER LINE
7. DIRECTION OF FLOW
8. AS REQUIRED DEPTH OF SEWER
9. ADJUSTABLE FLOOR GRATE. PROVIDE FINAL ADJUSTMENT AND GROUT FINISH AS REQUIRED AFTER FLOOR FINISHES ARE COMPLETE.

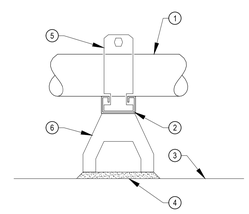
3 FLOOR CLEANOUT DETAIL N.T.S.



DETAIL NOTES:

1. CHECK VALVE, TYPICAL.
2. BALL VALVE, TYPICAL.
3. COLD WATER. SEE PLANS.
4. EXPANSION TANK AMTROL ST-5C-DD OR EQUAL. SECURE TO WALL WITH SEISMIC RESTRAINT STRAP.
5. WATER HEATER.
6. HOT WATER TO MOP SINK, SEE PLANS.
7. UNION, TYPICAL.
8. TEMPERATURE AND PRESSURE RELIEF. DRAIN FULL SIZE TO MOP SINK.
9. HOLDRITE SEISMIC RESTRAINT STRAP. PER CPC 2022 507.2: AT UPPER ONE THIRD (1/3) AND LOWER ONE-THIRD (1/3). A MINIMUM DISTANCE OF FOUR (4) INCHES SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.
10. HOLDRITE WALL HUNG PLATFORM WITH DRAIN PAN.
11. 1" DRAIN, RUN TO MOP SINK.

8 WATER HEATER PIPING 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# 01-121400

196

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — IN SERVICE — MECHANICAL — STATE OF CALIFORNIA

DSA SET
NOT VALID FOR CONSTRUCTION
07/29/24

REVISIONS

#	NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
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MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
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SHEET TITLE

DETAILS - MECHANICAL & PLUMBING

INCREMENT: INC.2

DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.

2MP-602

DATE: JULY 29, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/29/2024 2:50 PM FILE LOCATION: K:\Shared Drives\HVAC\19-6 Nineteen Six\23145 - Meadow Homes ES Mod\03 Dwgs\Meadow Homes ES Mod Inc 2.dwg

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.

Project Name: Meadow Homes Inc 2 — **Report Page:** **(Page 1 of 11)**
Project Address: — **Date Prepared:** 2024-07-26T14:09:08-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Concord	04	Total Conditioned Floor Area	4002
02	Climate Zone	12	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

• School or 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: Meadow Homes Inc 2 — **Report Page:** **(Page 2 of 11)**
Date Prepared: 2024-07-26T14:09:08-04:00

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
AC-MU-1&2	2	Single zone	Alteration		☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Meadow Homes Inc 2 — **Report Page:** **(Page 3 of 11)**
Date Prepared: 2024-07-26T14:09:08-04:00

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
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	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design[5] (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AC-MU-1&2	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Altered per 141.0(b)2E and 180.2(b)2				123.18	123.18		123.18

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

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

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
AC-MU-1&2	>=65,000 and <135,000					EER IEER	11.2 14.8	11.4 17.2

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Meadow Homes Inc 2 — **Report Page:** **(Page 4 of 11)**
Date Prepared: 2024-07-26T14:09:08-04:00

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

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

System Name	AC-MU-1&2	Quantity	2	Fan System Status	Alteration	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	4,000	Site Elevation	45	Economizer	Fixed Temperature
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Allowance: Component Allowance	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method			Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
AC-MU-1&2	Supply	1	Economizer Return Damper			90			0.04	0.4694	Manufacturer provided				2.62
			Gas heat			100			0.05						
			MERV 13-16 Filter downstream of thermal conditioning equipment			100			0.23						
			Altered: Supply Fan System			100			0.13						
Supply Fan Base Allowance (watt/cfm)		0.232	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					0	Fan System Allowance (kW)[3]		2.8			Fan System Electrical Input Power (kW)	2.62

[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.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Meadow Homes Inc 2 — **Report Page:** **(Page 5 of 11)**
Date Prepared: 2024-07-26T14:09:08-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

[1] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document.

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

01	02	03	04	05	06	07	08	09	10	11
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
AC-MU-1&2			4,000	1,000	0.25	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
AC-MU-1&2	Altered Fan System	

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Meadow Homes Inc 2 — **Report Page:** **(Page 6 of 11)**
Date Prepared: 2024-07-26T14:09:08-04:00

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)2E180.2(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(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
AC-MU-1&2	Single zone	NA: Altered per 141.0(b)2E	Setback + DR Tstat per 110.12	NA: Altered per 141.0(b)2E	Altered per §141.0(b)2 E	DR Tstat per 110.12	NA: Alteration	NA: Alteration Project	NA: Single Zone

[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)3& 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d-124refinelvk/(162.2, 160.3(a)3D, 170.2(a)4N, 170.2(q)4D 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	AC-MU-1&2	System Design OA CFM Airflow[1]	800	System Design Transfer Air CFM	800	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

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Meadow Homes Inc 2 — **Report Page:** **(Page 7 of 11)**
Date Prepared: 2024-07-26T14:09:08-04:00

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[4] 160.2(c)5D 160.2(c)5E	
	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		
MU	Multipurpose assembly	4002			600.3			DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Alteration
17	Total System Required Min OA CFM				600.3	18		Ventilation for this System Complies?	Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
[2] Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B.
[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6] 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

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

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

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Meadow Homes Inc 2 — **Report Page:** **(Page 8 of 11)**
Date Prepared: 2024-07-26T14:09:08-04:00

L. DISTRIBUTION (DUCTWORK and PIPING)

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	AC-MU-1&2	**NR/ Common Use:** Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	No
		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 603.9.2 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.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Meadow Homes Inc 2 — **Report Page:** **(Page 9 of 11)**
Date Prepared: 2024-07-26T14:09:08-04:00

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.	AC-MU-1&2
NRCA-MCH-05-A - Air Economizer Controls	AC-MU-1&2
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.	MU
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	AC-MU-1&2

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Meadow Homes Inc 2 — **Report Page:** **(Page 10 of 11)**
Date Prepared: 2024-07-26T14:09:08-04:00

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	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		2MP-002
Cooling Equipment Efficiency per 110.1		2MP-002
Furnace Standby Loss Control per 110.2(d)		2MP-002
Duct Insulation per 120.4		230500
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		N/A
The air duct and plenum system is designed per 120.4(a)-(f)		230500
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-MCH-E**
Project Name: Meadow Homes Inc 2 — **Report Page:** **(Page 11 of 11)**
Project Address: — **Date Prepared:** 2024-07-26T14:09:08-04:00

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: Rod Revera
Company: Cypress Engineering Group	Signature Date: 07/26/24
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 Serttunc	Responsible Designer Signature: Metin Serttunc
Company: Cypress Engineering Group	Date Signed: 07/26/24
Address: 8 Harris Court Suite A8	License: M31059
City/State/Zip: Monterey, CA 93940	Phone: 831.218.1802

AGENCY APPROVAL DSA# 01-121400

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

CEG JOB NO: 23145

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 SERTTUNC — No. M31059 — MECHANICAL — STATE OF CALIFORNIA
DSA SET 07/29/24

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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
T24 - MECHANICAL

INCREMENT: INC.2
DRAWN BY: RR JOB NUMBER: 23119.01

SHEET NO.
2MP-801
DATE: JULY 29, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 7/29/2024 2:50 PM FILE LOCATION: K:\Shared Drives\HVAC\19-6 Nineteen Six\23145 - Meadow Homes ES Mod\03 Dwgs\Meadow Homes ES Mod Inc 2.dwg

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	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				

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
					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
X					JUNCTION BOX

TYPICAL RECEPTACLE NOMENCLATURE

R1-3 / R1-3 "Y" / R1-3 X

- "R1" DENOTES PANEL NAME
- "3" DENOTES CIRCUIT NUMBER
- "X" DENOTES SPECIAL RECEPTACLE TYPE (IF APPLICABLE)
- "Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)

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.
  - "-" DENOTES SAME SHEET.
- 2 / E1.0 — SECTION OR ELEVATION DESIGNATION
  - "2" DENOTES SECTION OR ELEVATION NUMBER
  - "E1.0" DENOTES SHEET NUMBER.
  - "-" 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.

DRAWING INDEX

2E000	GENERAL INFORMATION
2E001	SCHEDULES
2E002	SCHEDULES
2E003	SCHEDULES
2E100	SITE PLAN
2E201	LIGHTING PLANS
2E202	LIGHTING PLANS
2E203	LIGHTING PLANS
2E204	LIGHTING PLANS
2E205	LIGHTING PLANS
2E300	POWER & SIGNAL 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

AGENCY APPROVAL DSA# 01-121400

1996

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PROFESSIONAL STAMP

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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

GENERAL INFORMATION

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.

2E000

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\nc 2\23477.50 - MH - 2E000 - General Information.dwg
LAST SAVED ON: 7/10/24

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.
	PHOTOSENSOR - CEILING MOUNT WITH 360° VIEW.
	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# 01-121400

196

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PROJECT OWNER & TITLE

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MEADOW HOMES ES MODERNIZATION

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SHEET TITLE

SCHEDULES

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.

2E001

DATE: JULY 30 2024

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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.
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.
L2	7.1 /FT	LED	4000	80	720 /FT	102	INTEGRAL 0-10V DIMMING DRIVER	120	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-___-H-840-BG-96LG-120-SC-FC-10%-FA50-Cx-FE-SW-W601 OR APPROVED EQUAL	THROUGHOUT	3.4 /FT	1. MOUNT BOTTOM OF FIXTURE AT CEILING HEIGHT. 2. PROVIDE LENGTHS AS SHOWN ON PLANS. 3. SEE DETAIL 7 & 8/1E402.
S1	17	LED	4000	90	1500	89	INTEGRAL 0-10V DIMMING DRIVER	120	11" X 11" SQUARE LOW PROFILE LENSED LED SURFACE CEILING MOUNT LUMINAIRE	ELITE RL1195-1500L-120-DIM10-40K-90+-WH OR APPROVED EQUAL	STORAGE	2	
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.

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.

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SHEET TITLE
SCHEDULES

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

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EQUIPMENT SCHEDULE

EQUIPMENT DESIGNATION	EQUIPMENT TYPE	LOCATION	PACKAGE UNITS		AMPS	HORSEPOWER	KVA	VOLTAGE/PHASE, QTY WIRES	CONNECTION TO EMS	INTERLOCK WITH	MOTOR 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
			MCA	MOCP							TYPE	STARTER NEMA SIZE	AUXILIARY DEVICES IN STARTERS									
AC-MU-1	AIR CONDITIONING	MU ROOF	59.0	70				208/3, 3W									E					
PE-MU-1	POWER EXHAUST	MU ROOF	7.8	20				208/3, 3W									E					
AC-MU-2	AIR CONDITIONING	MU ROOF	59.0	70				208/3, 3W									E					
PE-MU-2	POWER EXHAUST	MU ROOF	7.8	20				208/3, 3W									E					
ERV-B-1	ENERGY RECOVERY VENTILATOR	BLDG B.1	5.2	20				208/1, 3W									E					COORDINATE EXACT POWER REQTS WITH DIV 23.
AC-C-8	AIR CONDITIONING	BLDG C ROOF	30.0	40				208/3, 3W									E					
AC-C-9	AIR CONDITIONING	BLDG C ROOF	30.0	40				208/3, 3W									E					
EF-D-T3	EXHAUST FAN	BLDG D.1						120/1, 2W										E				CONTROLLED VIA LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.
EF-E-15T	EXHAUST FAN	BLDG E					0.019	120/1, 2W										E				CONTROLLED VIA LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.
EF-E-16T	EXHAUST FAN	BLDG E					0.019	120/1, 2W										E				CONTROLLED VIA LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.
EF-E-17T	EXHAUST FAN	BLDG E					0.019	120/1, 2W										E				CONTROLLED VIA LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.
EF-E-18T	EXHAUST FAN	BLDG E					0.019	120/1, 2W										E				CONTROLLED VIA LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.
EF-E-19T	EXHAUST FAN	BLDG E					0.019	120/1, 2W										E				CONTROLLED VIA LIGHTING OCCUPANCY SENSOR AND LIGHTING WALL SWITCH.

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 RELEASE TYPE TO AUTO POSITION
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		
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.

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INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

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1 **SITE PLAN**
1" = 20'-0"

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.

AGENCY APPROVAL DSA# 01-121400

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SHEET TITLE
SITE PLAN

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

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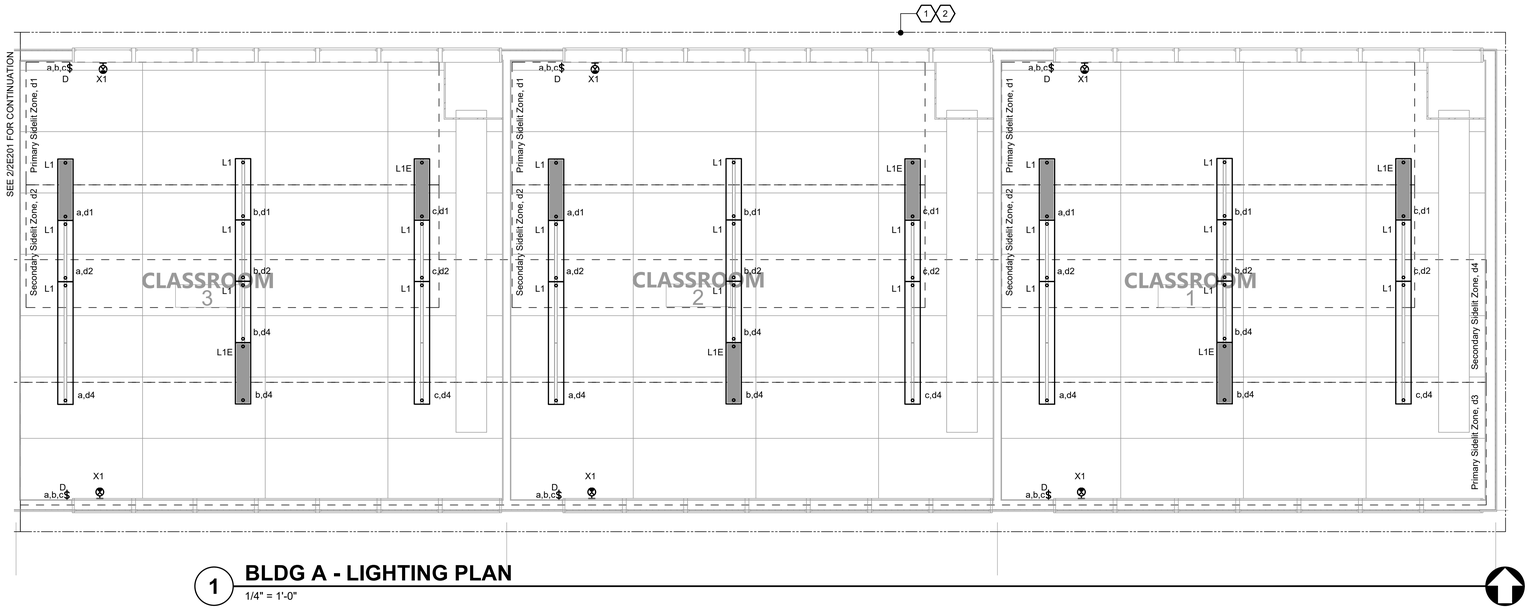
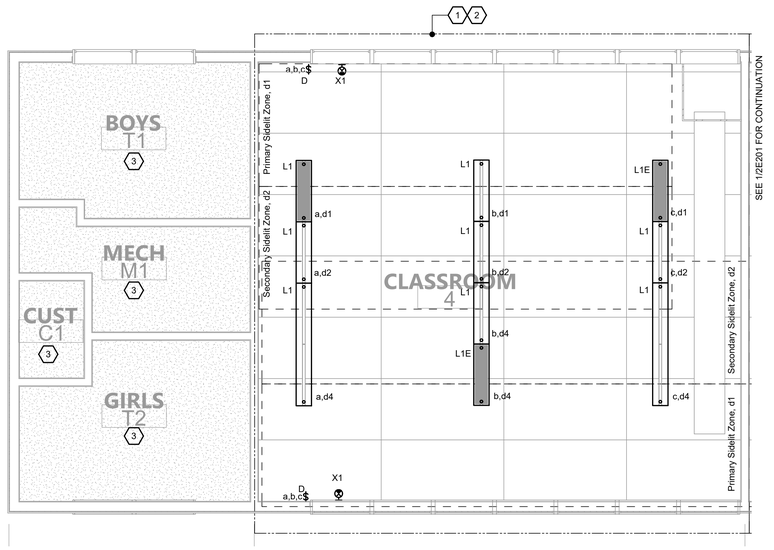


1 **BLDG A - LIGHTING PLAN**
1/4" = 1'-0"



2 **BLDG A - LIGHTING PLAN**
1/4" = 1'-0"

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.

(#) 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. (E) LIGHTING AND CONTROLS IN THIS ROOM TO REMAIN.

AGENCY APPROVAL DSA# 01-121400

1960

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PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
LIGHTING PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

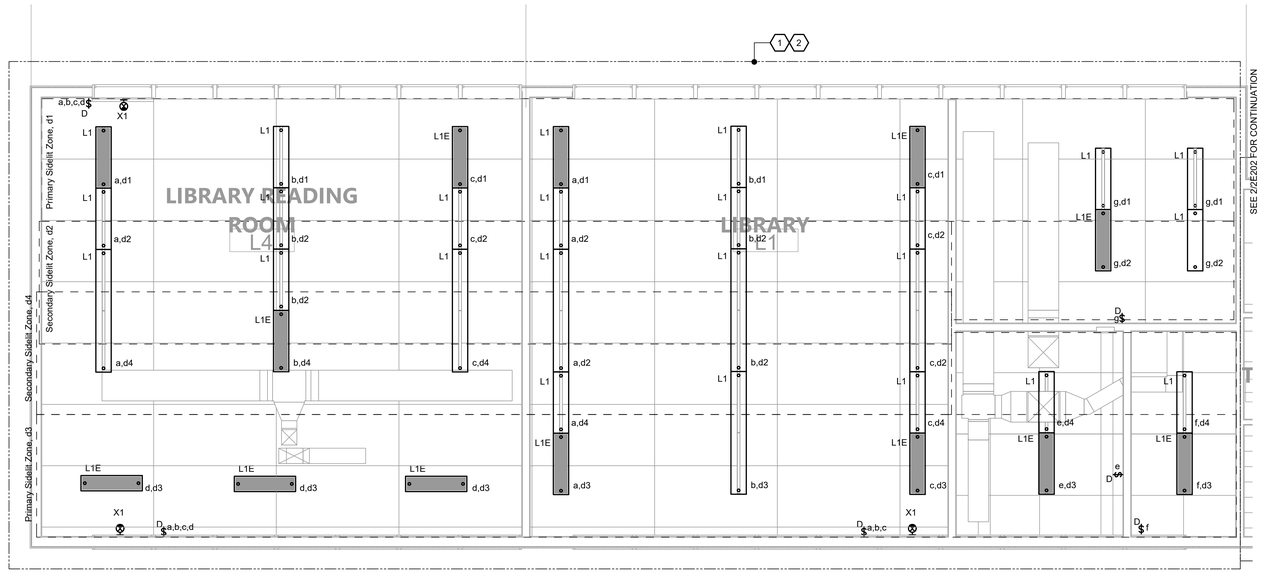
SHEET NO.
2E201

DATE: JULY 30202024

CONSTRUCTION DOCUMENTS

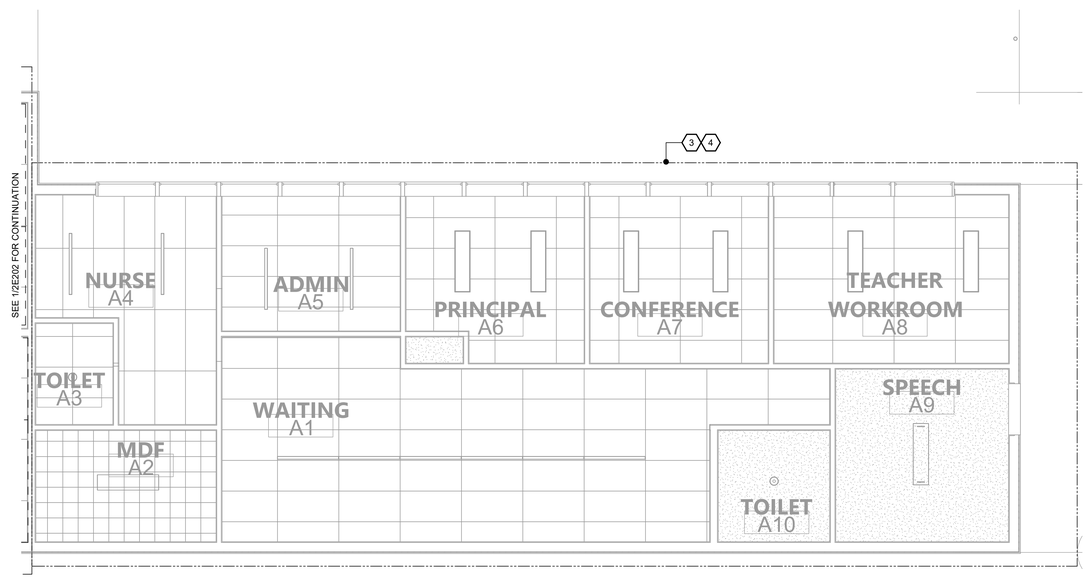
FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\Inc 2\2347.50 - MH - 2E200 - Lighting Plan.dwg
LAST SAVED ON: 7/05/24 at 5:57pm, PLOTTED ON: 7/18/24 at 10:11am

DATE PLOTTED: 8/29/2023 11:49:13 AM FILE LOCATION: C:\Users\Skim\Documents\23119.01_MTDJUSD_MEADOW HOMES ES MODERNIZATION_A23_skim32Q7M.rvt



1 BLDG B.1 - LIGHTING PLAN

1/4" = 1'-0"



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E. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.

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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.

SHEET NOTES

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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 CEILING MOUNT LIGHTING, LIGHTING CONTROLS, AND EXIT SIGNS TO REMAIN.
4. DISCONNECT AND REINSTALL EXISTING WALL MOUNT LIGHT SWITCHES AND EXIT SIGNS 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.

AGENCY APPROVAL DSA# 01-121400

196

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

LIGHTING PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.

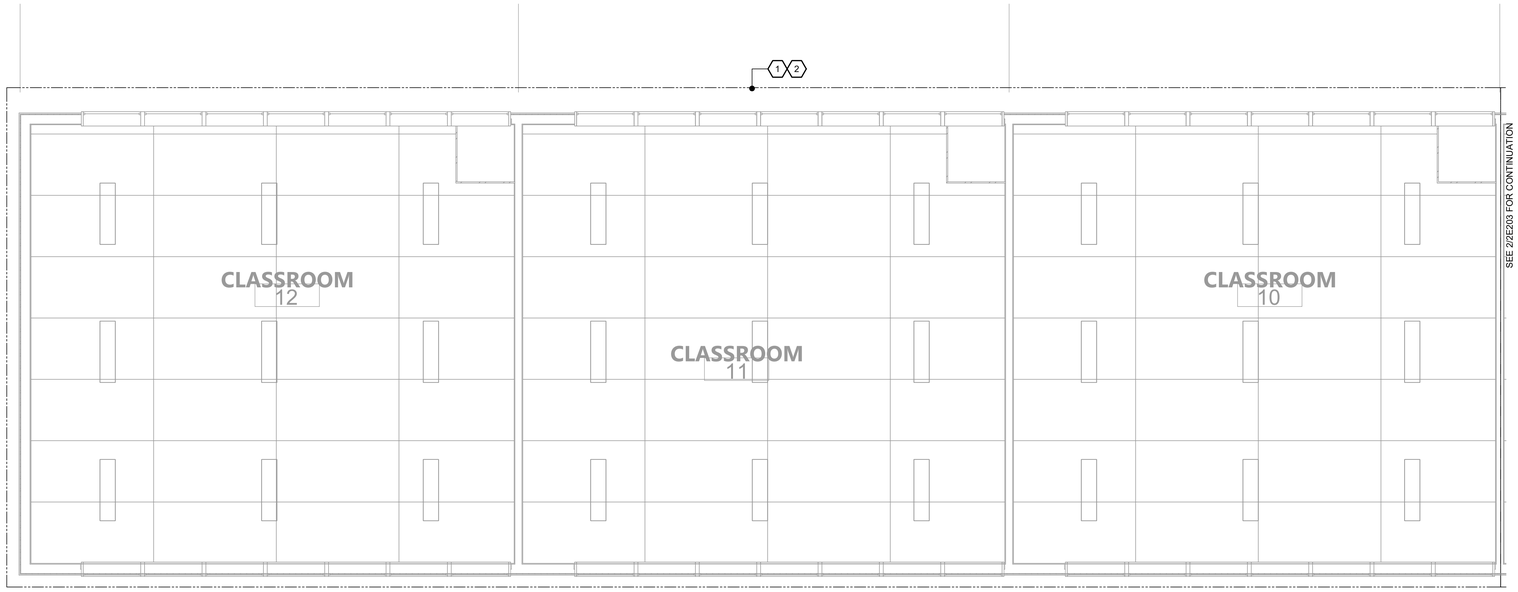
2E202

DATE: JULY 30202024

CONSTRUCTION DOCUMENTS

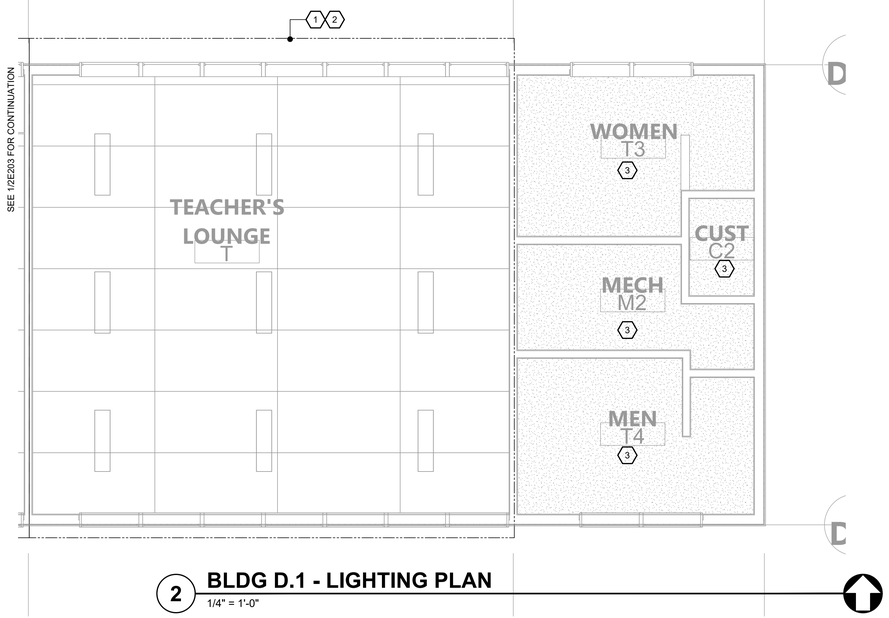
FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 053024\05_Drawings\01_DWGs\Meadow Homeslinc 2i2347.50 - MH - 2E200 - Lighting Plan.dwg
LAST SAVED ON: 7/05/24 at 5:57pm, PLOTTED ON: 7/18/24 at 10:11am

DATE PLOTTED: 8/29/2023 11:49:13 AM FILE LOCATION: C:\Users\Skim\Documents\23119.01_MTDUSD_MEADOW HOMES ES MODERNIZATION_A23_skim32O7M.rvt



1 BLDG D.1 - LIGHTING PLAN

1/4" = 1'-0"



2 BLDG D.1 - LIGHTING PLAN

1/4" = 1'-0"

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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.

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G. CIRCUIT ALL LIGHT FIXTURES ON THIS SHEET TO EXISTING LIGHTING CIRCUIT, UNLESS OTHERWISE NOTED.

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J. SEE SHEET 1E402 FOR LIGHT FIXTURE MOUNTING DETAILS.

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2. EXISTING CEILING MOUNT LIGHTING, LIGHTING CONTROLS, AND EXIT SIGNS TO REMAIN.
3. (E) LIGHTING AND CONTROLS IN THIS ROOM TO REMAIN.

AGENCY APPROVAL DSA# 01-121400

1906

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MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

LIGHTING PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.

2E203

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\Inc 2\2347.50 - MH - 2E200 - Lighting Plan.dwg
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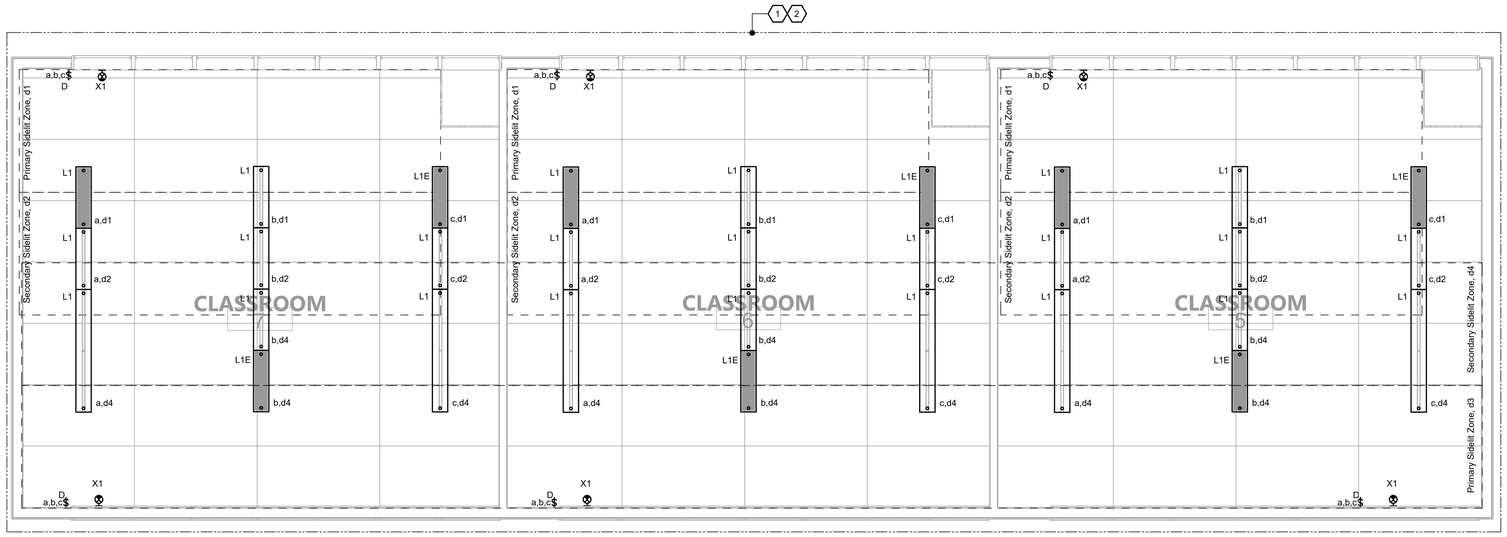
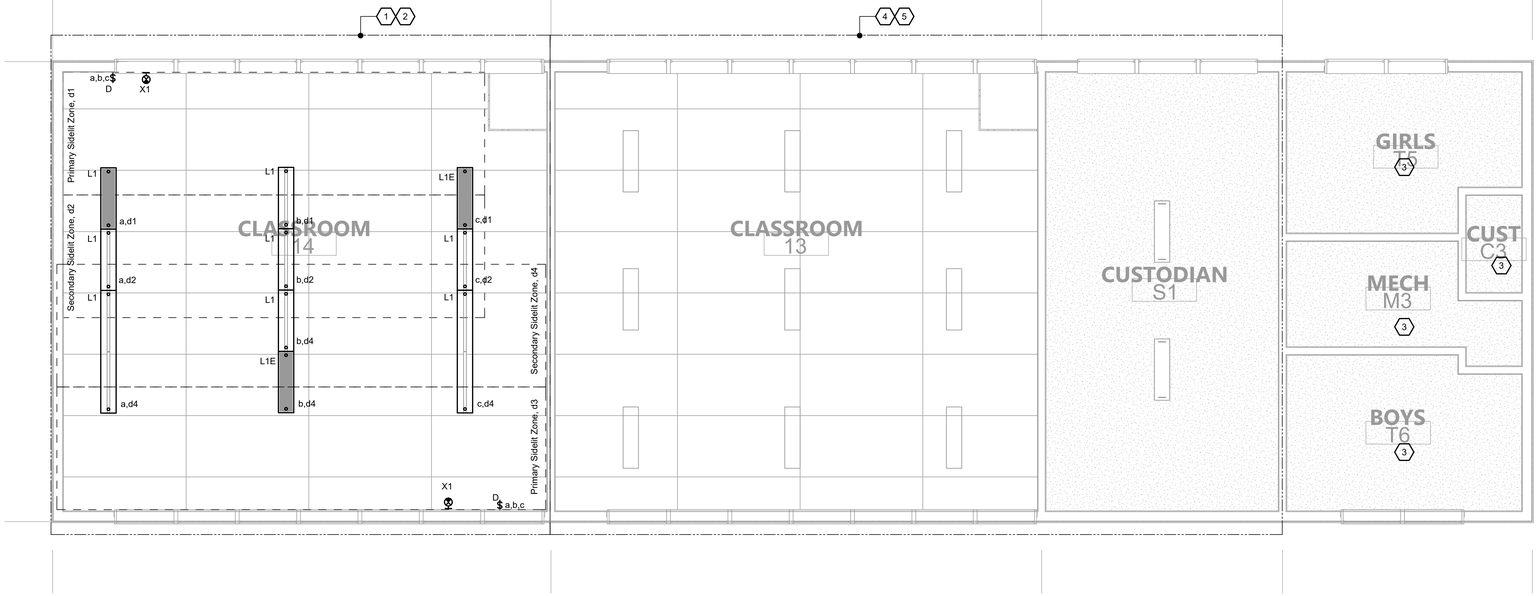


1 BLDG B.2 - LIGHTING PLAN

1/4" = 1'-0"



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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.

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. (E) LIGHTING AND CONTROLS IN THIS ROOM TO REMAIN.
4. DISCONNECT AND REINSTALL EXISTING WALL MOUNT LIGHT SWITCHES AND EXIT SIGNS 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.
5. EXISTING CEILING MOUNT LIGHTING, LIGHTING CONTROLS, AND EXIT SIGNS TO REMAIN.

AGENCY APPROVAL DSA# 01-121400

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

LIGHTING PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.

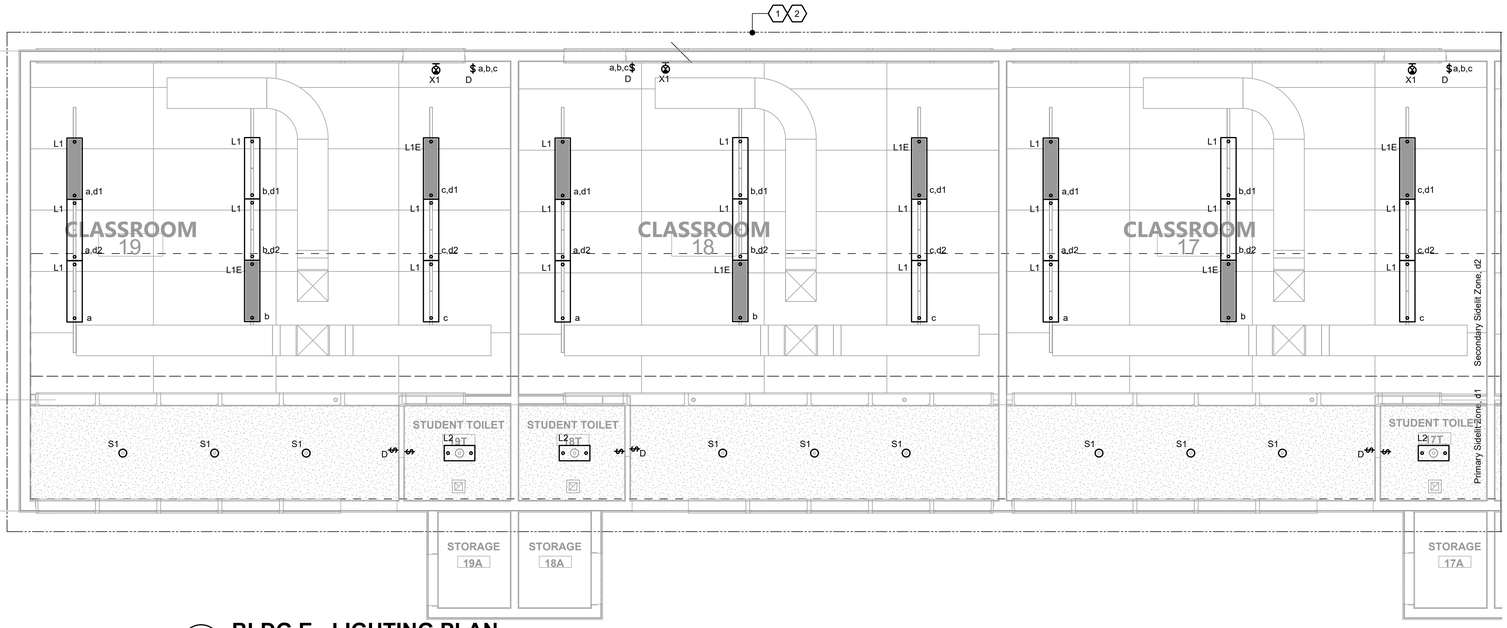
2E204

DATE: JULY 30 2024

CONSTRUCTION DOCUMENTS

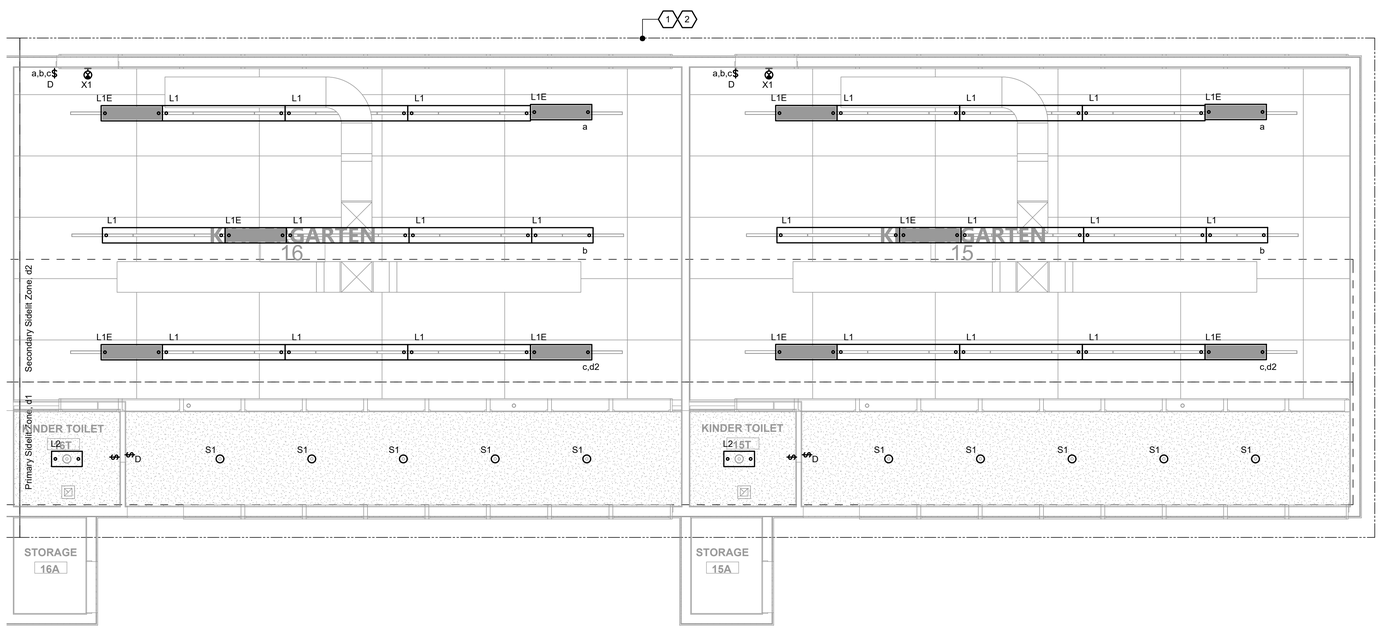
FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\nc 2#2347.50 - MH - 2E200 - Lighting Plan.dwg
LAST SAVED ON: 7/05/24 at 5:57pm. PLOTTED ON: 7/18/24 at 10:12am

DATE PLOTTED: 8/29/2023 11:49:13 AM FILE LOCATION: C:\Users\tkim\Documents\23119.01_MTDUSD_MEADOW HOMES ES MODERNIZATION_A23_tkim32O7M.rvt



1 BLDG E - LIGHTING PLAN

1/4" = 1'-0"



2 BLDG E - LIGHTING PLAN

1/4" = 1'-0"

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.

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C. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.

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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.

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PROFESSIONAL STAMP

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1371 Detroit Ave
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SHEET TITLE
LIGHTING PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E205

DATE: JULY 30202024

CONSTRUCTION DOCUMENTS

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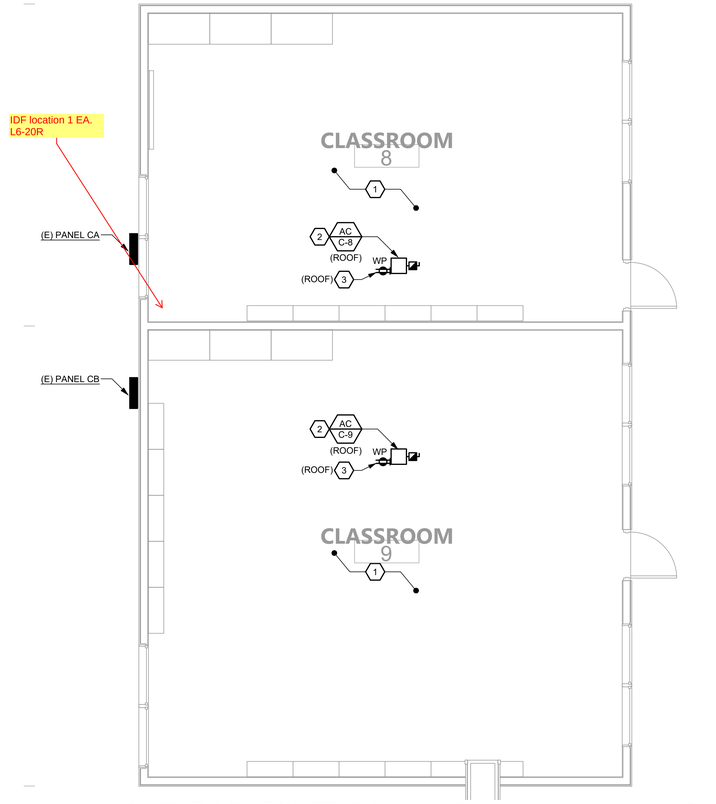
LAST SAVED ON: 7/05/24 at 5:57pm, PLOTTED ON: 7/18/24 at 10:12am
DATE PLOTTED: 8/29/2023 11:49:13 AM FILE LOCATION: C:\Users\Skim\Documents\23119.01_MTDUSD_MEADOW HOMES ES MODERNIZATION_A23_skim32O7M.rvt



1 **BLDG C - POWER & SIGNAL PLAN**
1/4" = 1'-0"

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.

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.

(#) 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. NEW HVAC UNIT, THIS LOCATION. PROVIDE DISCONNECT SWITCH AND CU BRANCH FEEDER FOR NEW HVAC EQUIPMENT AND GENERAL PURPOSE RECEPTACLE WITHIN 25FT OF HVAC EQUIPMENT.
3. CONNECT ALL NEW GENERAL PURPOSE RECEPTACLES, THIS BUILDING, TO NEAREST AVAILABLE 120V 20A SPARE CIRCUIT.

AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
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MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E300

DATE: JULY 30202024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\18503\OneDrive\Desktop\mt diablo\CAD 053024\05_Drawings\01_DWGs\Meadow Homes\Inc 2\2347.50 - MH - 2E300 - Power Plan.dwg
LAST SAVED ON: 7/05/24 at 3:57pm, PLOTTED ON: 7/18/24 at 10:12am

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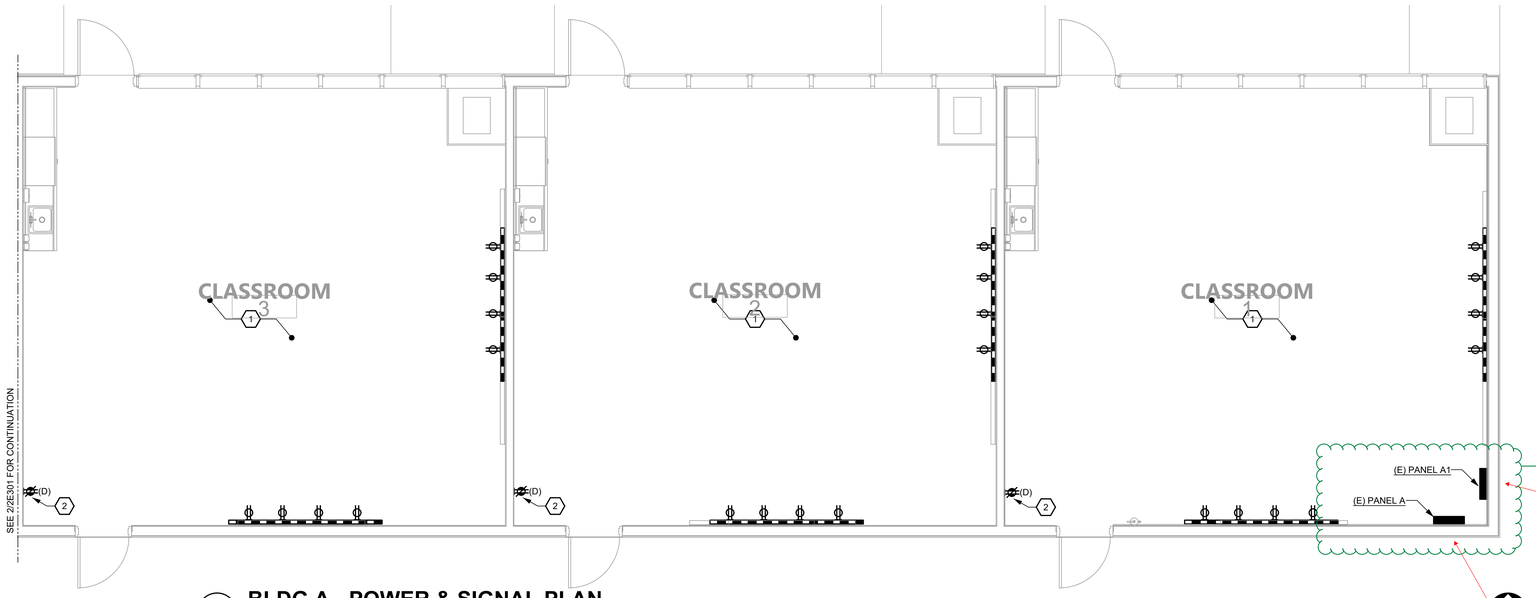
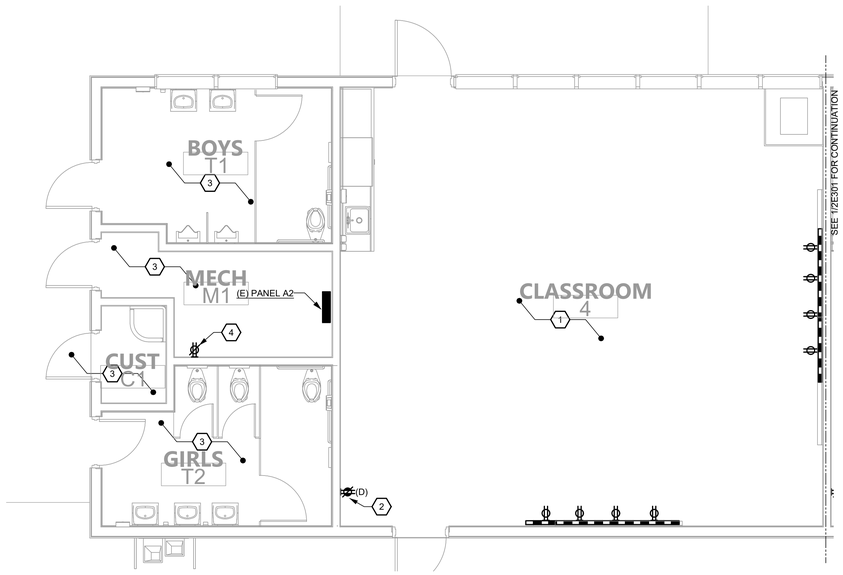


1 BLDG A - POWER & SIGNAL PLAN

1/4" = 1'-0"



2 BLDG A - POWER & SIGNAL PLAN

1/4" = 1'-0"

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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.

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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. PROVIDE DEDICATED 120V CIRCUIT FOR RECEPTACLE SERVING IDF. CONNECT TO NEAREST AVAILABLE 120V 20A SPARE CIRCUIT.

THESE SHOULD BE ON THE EXTERIOR





AGENCY APPROVAL DSA# 01-121400

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SHEET TITLE

POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.

2E301

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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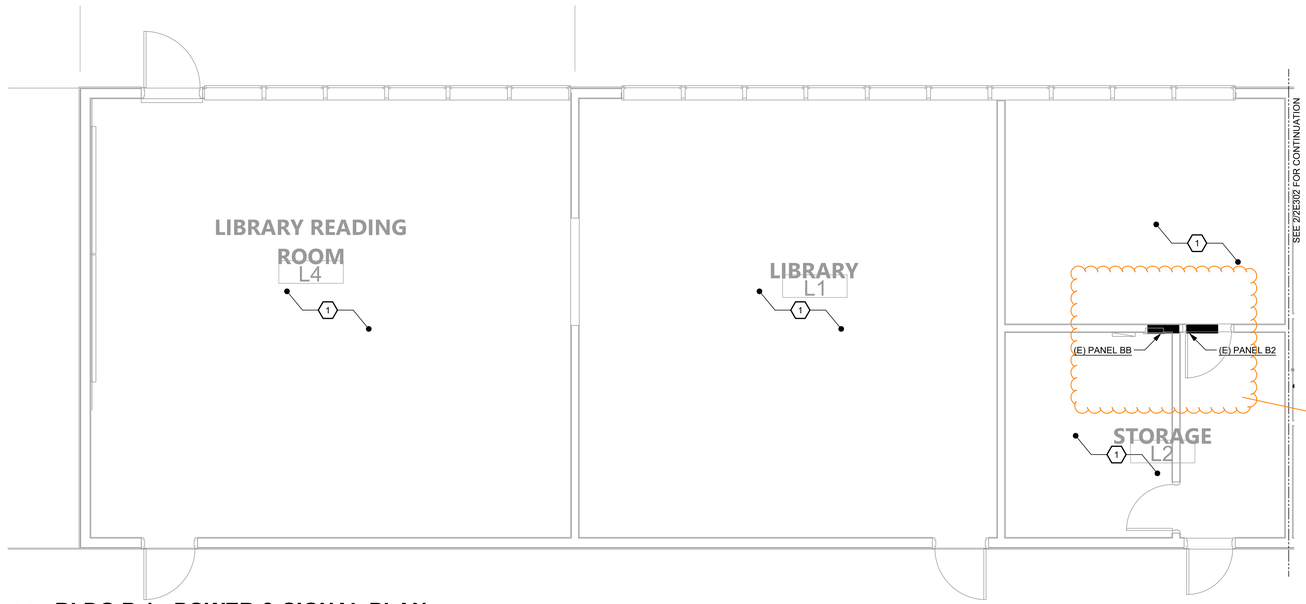
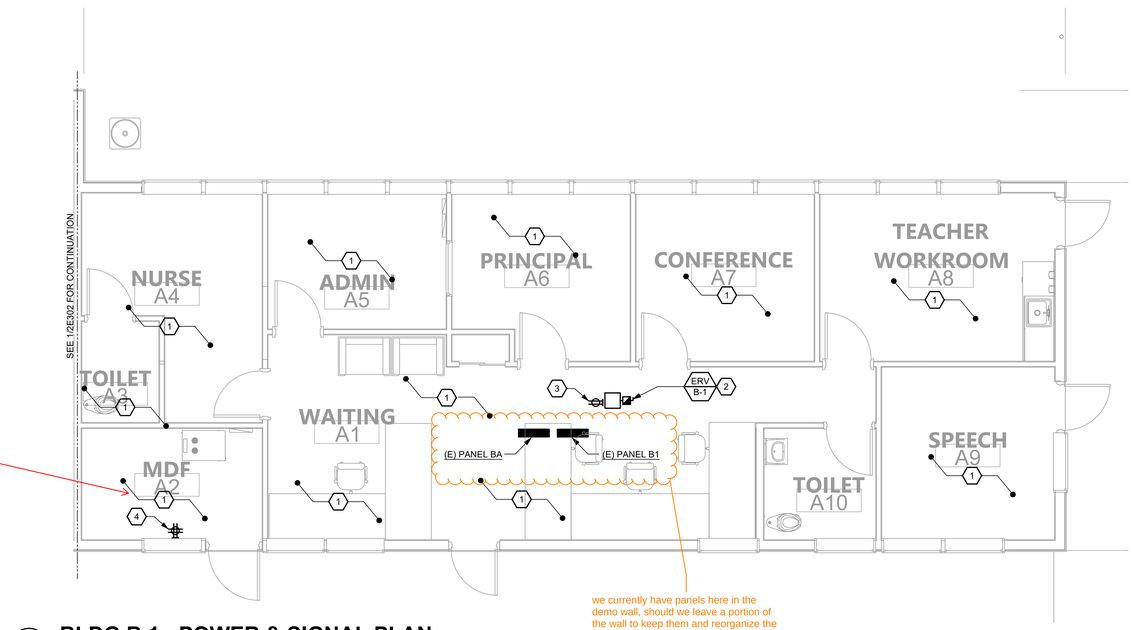


can we check the location of this door, maybe its closer to the other wall so we can locate the panel?

1 BLDG B.1 - POWER & SIGNAL PLAN

1/4" = 1'-0"



MDF location

2 EA. dedicated L6-20R

3 EA. dedicated 120V 20A for

we currently have panels here in the demo wall, should we leave a portion of the wall to keep them and reorganize the furniture around it?

2 BLDG B.1 - POWER & SIGNAL PLAN

1/4" = 1'-0"

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.

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.

⟨#⟩ 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. NEW HVAC UNIT, THIS LOCATION. PROVIDE DISCONNECT SWITCH AND CU BRANCH FEEDER FOR NEW HVAC EQUIPMENT AND GENERAL PURPOSE RECEPTACLE WITHIN 25FT OF HVAC EQUIPMENT.
3. CONNECT ALL NEW GENERAL PURPOSE RECEPTACLES, THIS BUILDING, TO NEAREST AVAILABLE 120V 20A SPARE CIRCUIT.
4. PROVIDE DEDICATED CIRCUIT FOR MDF QUADPLEX RECEPTACLE.

AGENCY APPROVAL DSA# 01-121400

196

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PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.

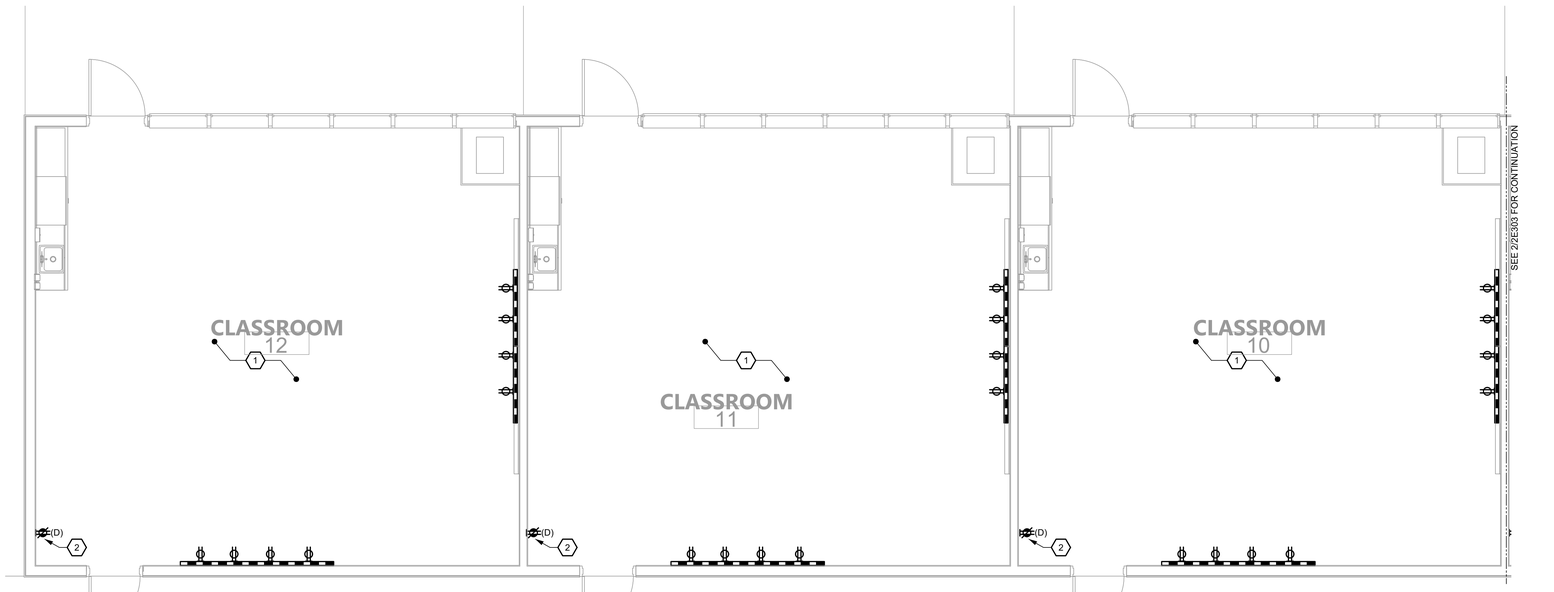
2E302

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

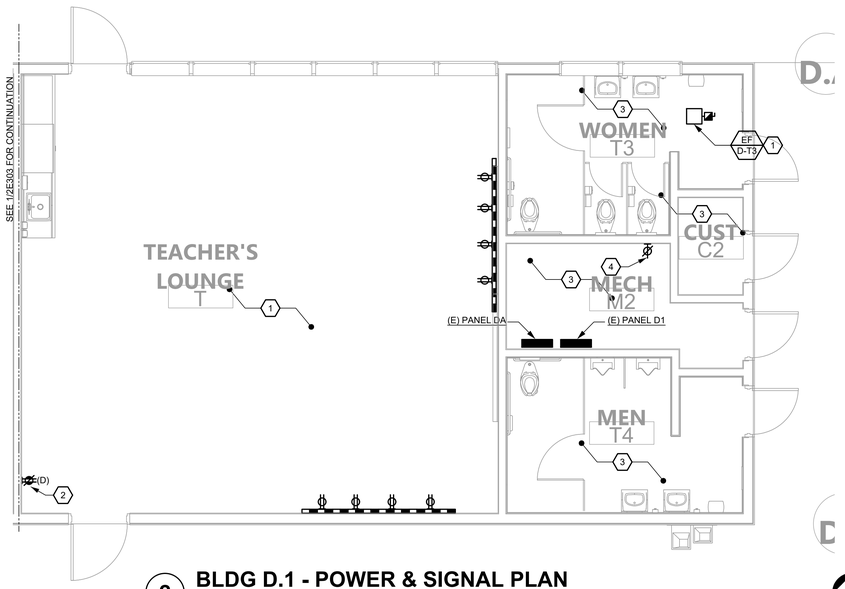
FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\Inc 202347.50 - MH - 2E300 - Power Plan.dwg
LAST SAVED ON: 7/05/24 at 3:57pm. PLOTTED ON: 7/18/24 at 10:12am

DATE PLOTTED: 8/29/2023 11:48:13 AM FILE LOCATION: C:\Users\tkim\Documents\23119.01_MTDUSD_MEADOW HOMES ES MODERNIZATION_A23_tkim32O7M.rvt



1 BLDG D.1 - POWER & SIGNAL PLAN

1/4" = 1'-0"



2 BLDG D.1 - POWER & SIGNAL PLAN

1/4" = 1'-0"

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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.

AGENCY APPROVAL DSA# 01-121400

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MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E303

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\Inc 2\2347.50 - MH - 2E300 - Power Plan.dwg
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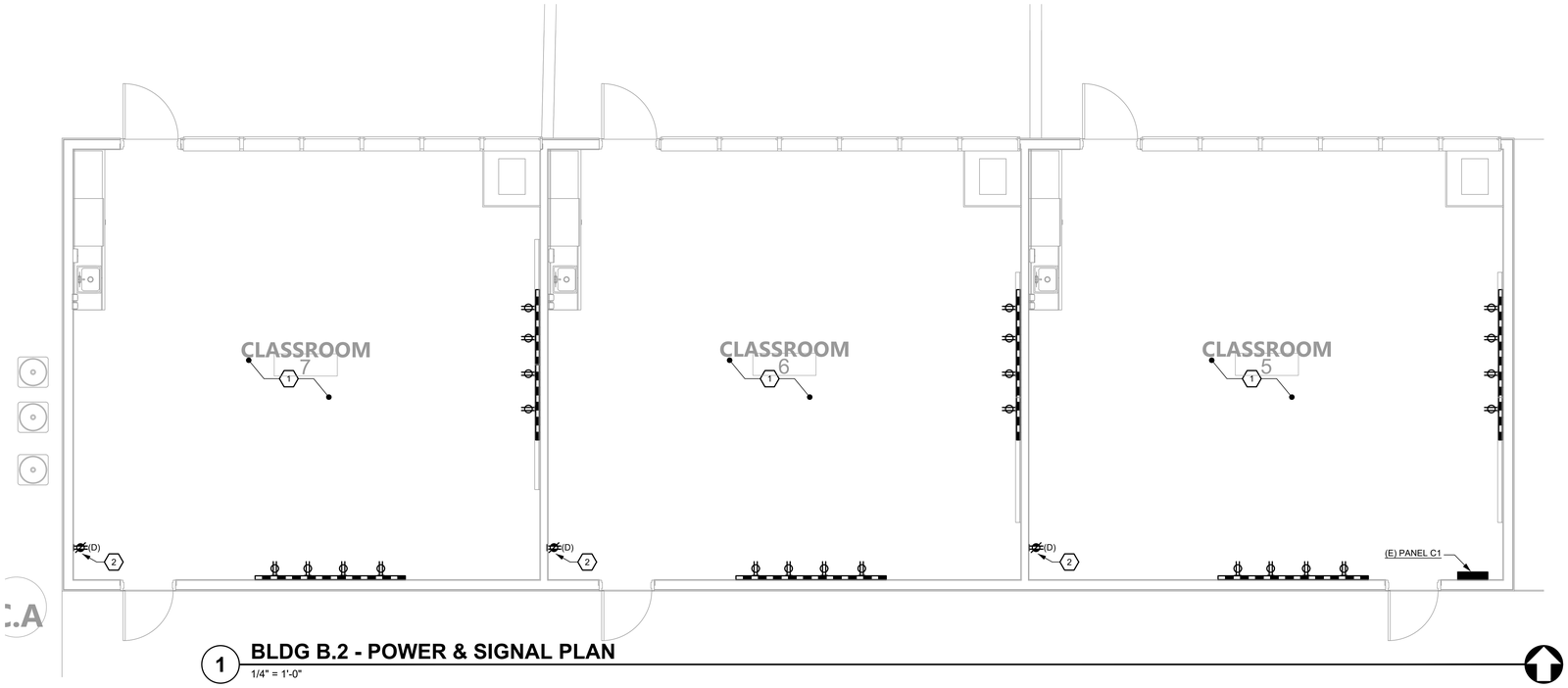
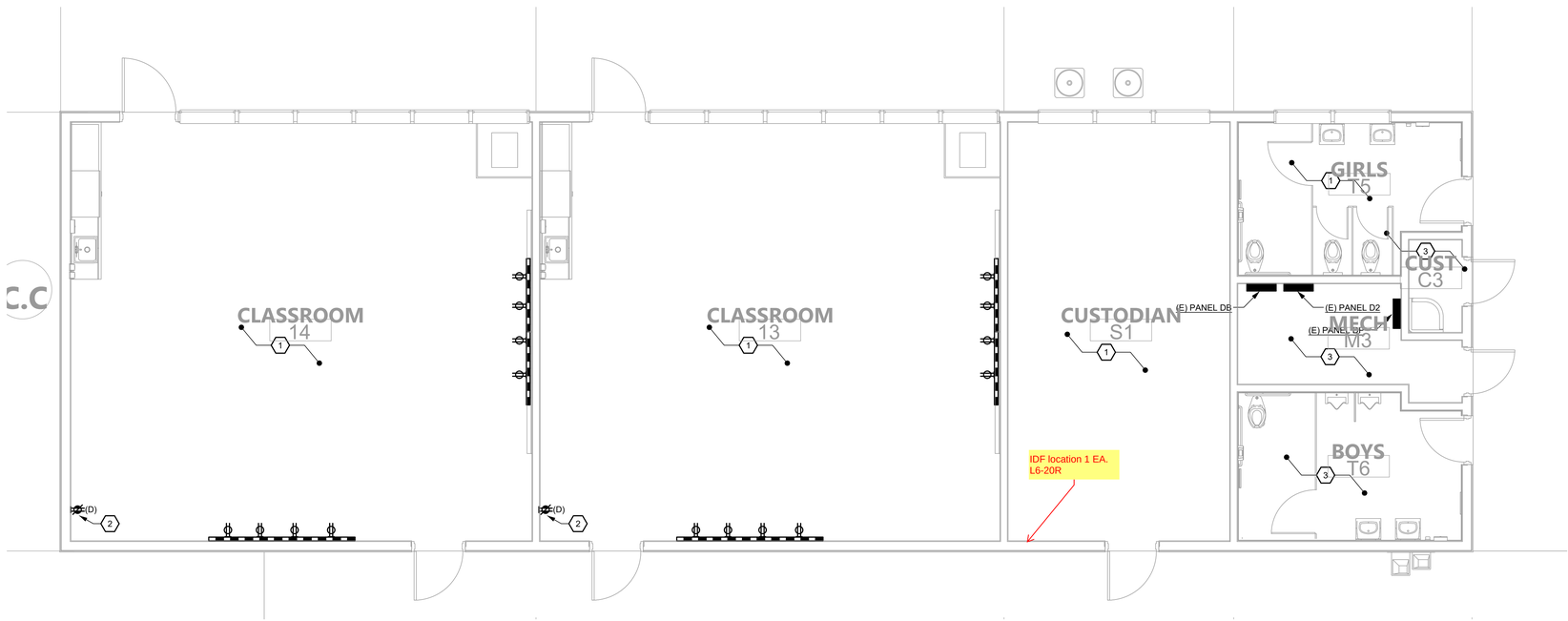


1 **BLDG B.2 - POWER & SIGNAL PLAN**
1/4" = 1'-0"



2 **BLDG D.2 - POWER & SIGNAL PLAN**
1/4" = 1'-0"

GENERAL NOTES

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3. EXISTING TO REMAIN, THIS ROOM.

AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP

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1936 Carlotta Drive
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MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E304

DATE: JULY 30 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\Inc 2\2347.50 - MH - 2E300 - Power Plan.dwg
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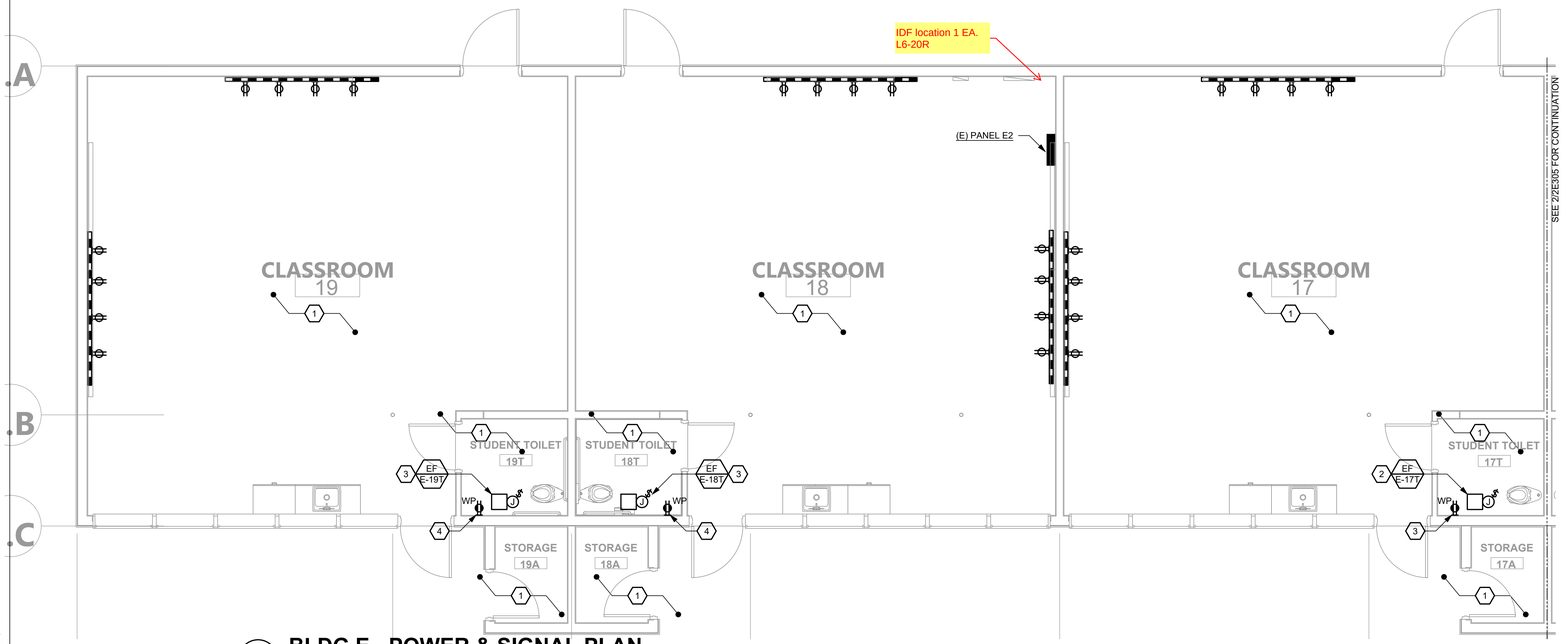
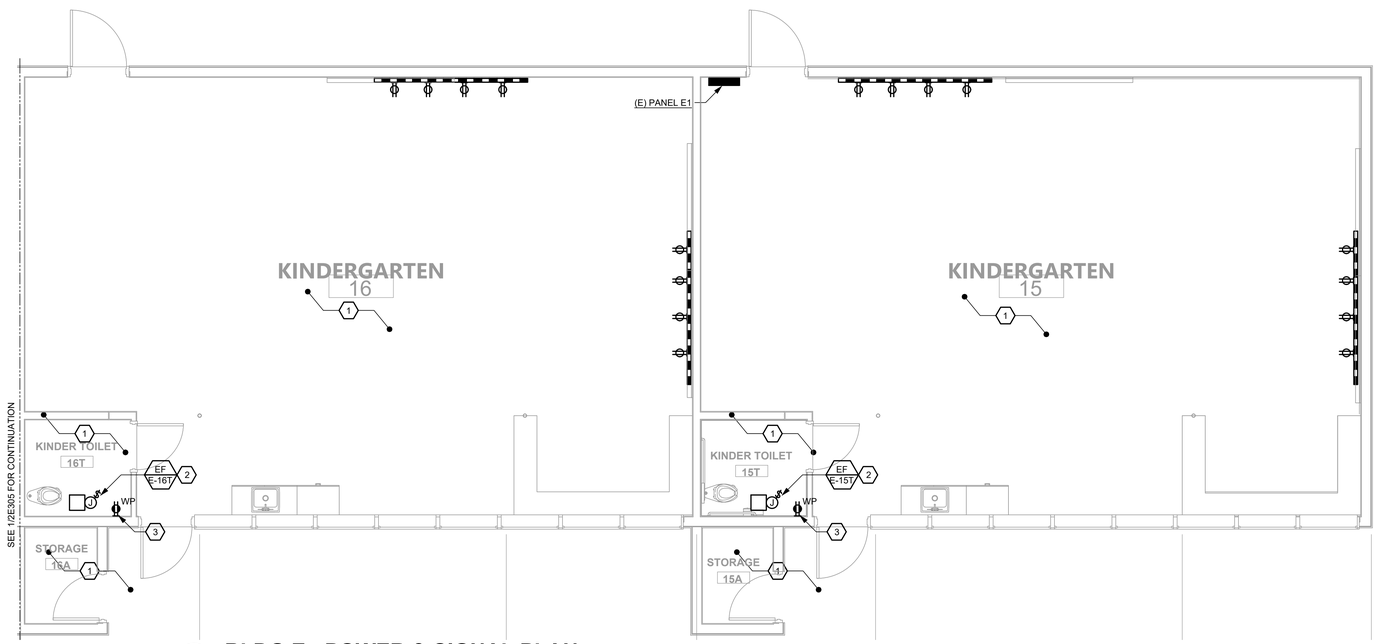


1 BLDG E - POWER & SIGNAL PLAN

1/4" = 1'-0"



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AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP

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1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E305

DATE: JULY 30202024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 053024\05_Drawings\01_DWGs\Meadow Homes\Inc 2\23347.50 - MH - 2E300 - Power Plan.dwg
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AGENCY APPROVAL DSA# 01-121400

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Concord, CA 94520

SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

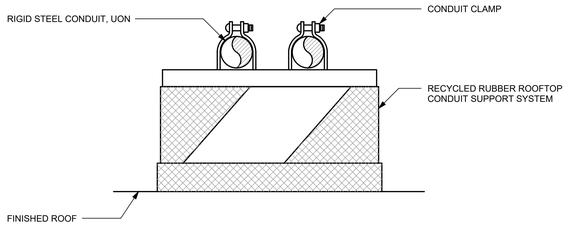
SHEET NO.
2E306

DATE: JULY 30 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\Inc 2\2347.50 - MH - 2E300 - Power Plan.dwg
LAST SAVED ON: 7/05/24 at 3:57pm. PLOTTED ON: 7/18/24 at 10:12am

DATE PLOTTED: 8/29/2023 11:49:13 AM FILE LOCATION: C:\Users\tkim\Documents\23119.01_MTDUSD_MEADOW HOMES ES MODERNIZATION_A23_tkim32O7M.rvt

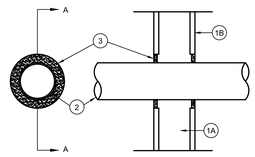


DETAIL NOTES

1. REFER TO SPECIFICATION SECTION 26 05 29 FOR ADDITIONAL INFORMATION
2. MAXIMUM HEIGHT OF CONDUIT FROM ROOF SHALL NOT EXCEED 12" AND SHALL NOT EXCEED HALF OF THE LENGTH OF THE SUPPORTING SLEEPER.
3. SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 6'-0"

4 CONDUIT ON RUBBER SUPPORT ON ROOF

NOT TO SCALE



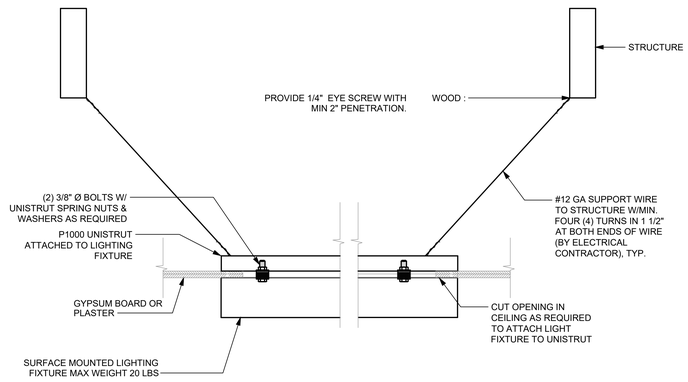
SECTION A-A

DETAIL NOTES:

1. WALL ASSEMBLY-THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND 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. LUMBER SPACED 16" OC. STEEL STUDS TO BE MIN 2 ½" WIDE AND SPACED MAX 24 IN. OC.
   B. WALLBOARD GYPSUM*-ONE LAYER OF NOM 5/8" THICK GYPSUM WALLBOARD AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 7 IN.
2. THROUGH PENETRANTS-ONE METALLIC CONDUIT SHALL BE INSTALLED WITHIN THE FIRESTOP SYSTEM. THE SPACE BETWEEN THE CONDUIT AND PERIPHERY OF OPENING SHALL BE A MIN 1/4 IN. TO A MAX 1 ¼" CONDUIT SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. A 4" DIAMETER (OR SMALLER) ELECTRICAL METALLIC TUBING OR STEEL CONDUIT MAY BE USED.
3. FILL, VOID, OR CAVITY MATERIAL (CAULK) - MIN 5/8" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MATERIAL SHALL BEAR THE UL CLASSIFICATION MARKING.
4. BASED ON U.L. SYSTEM NO W-L-1087:
   A. F RATING: 1HR
   B. T RATING: 0 HR
   C. L RATING AT AMBIENT: LESS THAN 1CFM/SQFT
   D. L RATING AT 400F: LESS THAN 1 CFM/SQFT

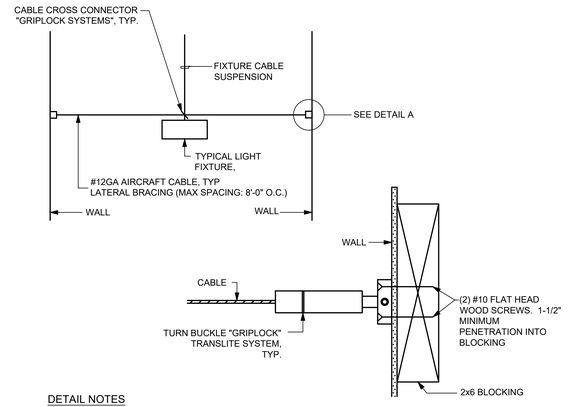
1 1-HOUR PENETRATION DETAIL

NOT TO SCALE



6 SURFACE FIXTURE MOUNTING

NOT TO SCALE



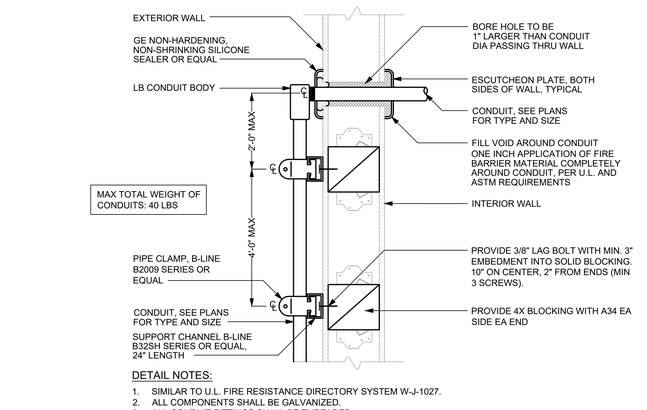
DETAIL "A"

DETAIL NOTES

1. SEE DETAIL 3/1E402 FOR INFORMATION NOT SHOWN IN THIS DETAIL.

5 LIGHT FIXTURE SEISMIC BRACING

NOT TO SCALE

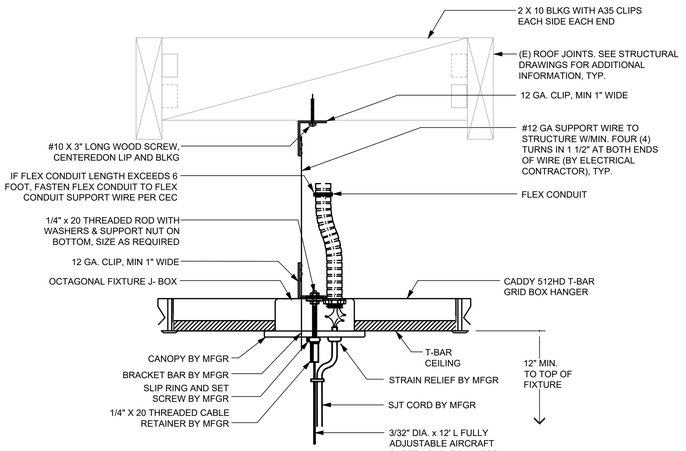


DETAIL NOTES:

1. SIMILAR TO U.L. FIRE RESISTANCE DIRECTORY SYSTEM W-J-1027.
2. ALL COMPONENTS SHALL BE GALVANIZED.
3. ALL CONDUIT FITTINGS SHALL BE THREADED.
4. FOR DATA CABLING, INSURE BENDING RADIUS PER TIA/EIA STANDARDS.

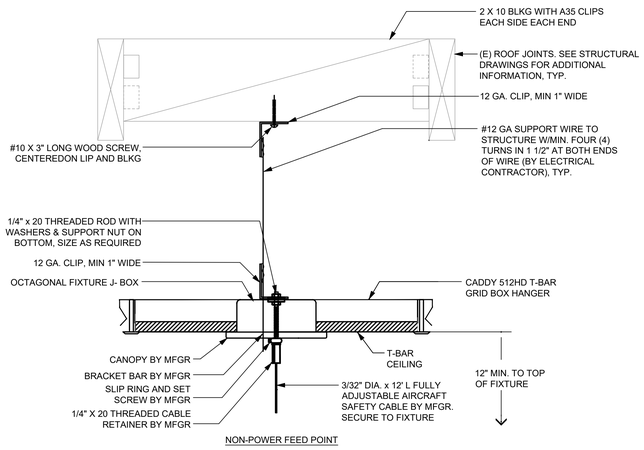
2 LB BODY THROUGH EXTERIOR WALL

NOT TO SCALE



DETAIL NOTES

1. MAXIMUM FIXTURE WEIGHT: 14 LBS (FIXTURE LENGTH 4FT)



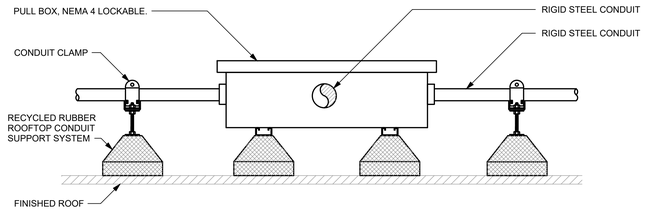
DETAIL NOTES

1. MAXIMUM FIXTURE WEIGHT: 14 LBS (FIXTURE LENGTH 4FT)

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 4/E402

7 PENDANT @ T-BAR CEILING MTG DETAIL

NOT TO SCALE



DETAIL NOTES

1. REFER TO SPECIFICATION SECTION 26 05 29 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO COORDINATE WITH ROOF MANUFACTURER FOR COMPLETE INSTALLATION.
3. MAXIMUM HEIGHT OF CONDUIT FROM ROOF SHALL NOT EXCEED 12" AND SHALL NOT EXCEED HALF OF THE LENGTH OF THE SUPPORTING SLEEPER.

3 PULL BOX ON BLOCKING ON ROOF

NOT TO SCALE

AGENCY APPROVAL DSA# 01-121400

196

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MECHANICAL ENGINEER
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Monterey, CA 93940
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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

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REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

DETAILS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.

2E401

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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LAST SAVED ON: 6/20/24 at 11:39pm. PLOTTED ON: 7/18/24 at 10:13am
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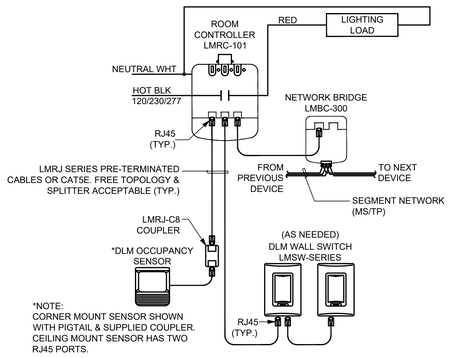


A. BASIS OF DESIGN IS WATTSTOPPER DLM. CONTRACTOR TO PROVIDE ALL PARTS, DEVICES, WIRING, APPURTENANCES, AND ASSOCIATED LABOR FOR A COMPLETE INSTALLATION.

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.

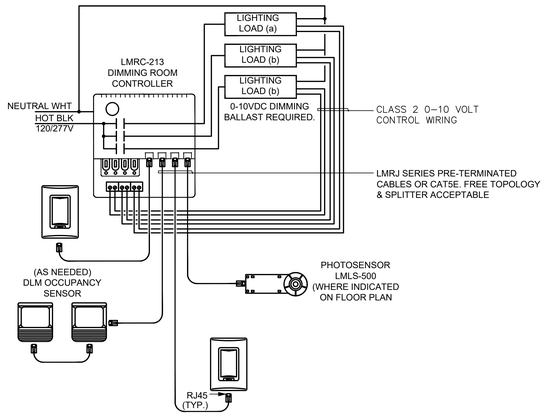
H. LMRJ SERIES PRE-TERMINATED CABLES OR CAT5E IS ACCEPTABLE. MANUFACTURER RECOMMENDS PROVIDING LMRJ SERIES PRE-TERMINATED CABLES FOR EASE OF INSTALLATION.

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.

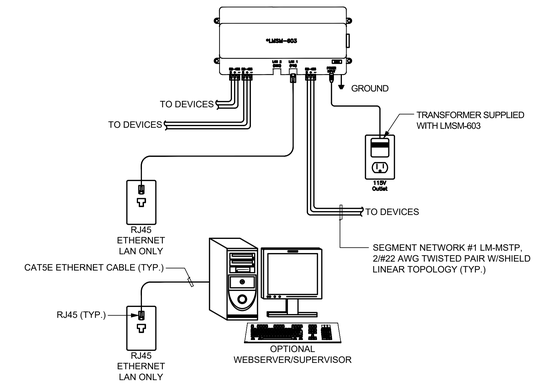
3 ROOM CONTOLLER WITH NETWORK BRIDGE WIRING DIAGRAM

NOT TO SCALE



1 DIGITAL LIGHTING CONTROL DIMMING WIRING DIAGRAM

NOT TO SCALE



*NOTE:
THE LMSM-603 SUPPORTS 3 SEGMENTS WITH UP TO 127 DEVICES PER SEGMENT.

2 SEGMENT MANAGER WIRING DIAGRAM

NOT TO SCALE

AGENCY APPROVAL DSA# 01-121400

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MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
DETAILS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E402

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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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:	Meadow Homes ES Modernization Increment 2 - Bldg A	**Report Page:**	**(Page 1 of 8)**
Project Address:	1371 Detroit Ave, Concord, CA 94520	**Date Prepared:**	2024-07-05T18:29:22-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Concord	04	Total Conditioned Floor Area (ft²)	3,617
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	3617	Area Category Method	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	3617			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	Meadow Homes ES Modernization Increment 2 - Bldg A	**Report Page:**	**(Page 2 of 8)**
		Date Prepared:	2024-07-05T18:29:22-04:00

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 Adjustments		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)	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		2,170.2			=	2,170.2	≥ 1,555.2		=	1555.2	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:	Meadow Homes ES Modernization Increment 2 - Bldg A	**Report Page:**	**(Page 3 of 8)**
		Date Prepared:	2024-07-05T18:29:22-04:00

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	48	No	1,555.2	☐	☐
							Total Designed Watts: CONDITIONED SPACES	1,555.2		

[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	
		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:	Meadow Homes ES Modernization Increment 2 - Bldg A	**Report Page:**	**(Page 4 of 8)**
		Date Prepared:	2024-07-05T18:29:22-04:00

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 3	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom 2	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom 1	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom 4	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	Yes	☐	☐
							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	
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 3	Classroom, Lecture, or Training Vocational	0.6	903	541.8	No	No
Classroom 2	Classroom, Lecture, or Training Vocational	0.6	895	537	No	No

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	Meadow Homes ES Modernization Increment 2 - Bldg A	**Report Page:**	**(Page 5 of 8)**
		Date Prepared:	2024-07-05T18:29:22-04:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Classroom 1	Classroom, Lecture, or Training Vocational	0.6	919	551.4	No	No
Classroom 4	Classroom, Lecture, or Training Vocational	0.6	900	540	No	No
		TOTALS:	3,617	2,170.2	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:	Meadow Homes ES Modernization Increment 2 - Bldg A	**Report Page:**	**(Page 6 of 8)**
		Date Prepared:	2024-07-05T18:29:22-04:00

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:	Meadow Homes ES Modernization Increment 2 - Bldg A	**Report Page:**	**(Page 7 of 8)**
		Date Prepared:	2024-07-05T18:29:22-04:00

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 3; Classroom 2; Classroom 1; Classroom 4
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Classroom 3; Classroom 2; Classroom 1; Classroom 4
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Classroom 4

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

Project Name:	Meadow Homes ES Modernization Increment 2 - Bldg A	**Report Page:**	**(Page 8 of 8)**
Project Address:	1371 Detroit Ave, Concord, CA 94520	**Date Prepared:**	2024-07-05T18:29:22-04:00

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: 7/10/24
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.
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Responsible Designer Name: J. David Maino	Responsible Designer Signature:
Company: Atium Engineering	Date Signed: 7/10/24
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:	Meadow Homes ES Modernization Increment 2 - Bldgs B.1 & B.2	**Report Page:**	**(Page 1 of 8)**
Project Address:	1371 Detroit Ave, Concord, CA 94520	**Date Prepared:**	2024-07-05T20:56:42-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Clayton	04	Total Conditioned Floor Area (ft²)	4,875
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	N/A	0	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
☒ Altered Lighting System	Area Category Method	4875	Area Category Method	0
Total Area of Work (ft²)	4875			

AGENCY APPROVAL DSA# 01-121400

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Carmichael, CA 95608
TEL (916) 359-4000

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
GENERAL INFORMATION

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E501

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\inc 2\2347.50 - MH - 2E500 - Title 24.dwg
LAST SAVED ON: 7/10/24 at 11:04pm, PLOTTED ON: 7/18/24 at 10:13am
DATE PLOTTED: 8/29/2023 11:49:13 AM FILE LOCATION: C:\Users\Skim\Documents\23119.01_MTDUSD_MEADOW HOMES ES MODERNIZATION_A23_skim32O7M.rvt

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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Project Name: Meadow Homes ES Modernization Increment 2 - Bldgs B.1 & B.2	**Report Page:** (Page 1 of 8)
Project Address: 1371 Detroit Ave, Concord, CA 94520	**Date Prepared:** 2024-07-05T20:56:42-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Clayton	04	Total Conditioned Floor Area (ft²)	4,875
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	N/A	0	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
☒ Altered Lighting System	Area Category Method	4875	Area Category Method	0
Total Area of Work (ft²)	4875			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldgs B.1 & B.2	**Report Page:** (Page 2 of 8)
	Date Prepared: 2024-07-05T20:56:42-04:00

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 (-)		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		3,290.3			=	3,290.3	≥ 2,883.6		=	2883.6	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: Meadow Homes ES Modernization Increment 2 - Bldgs B.1 & B.2	**Report Page:** (Page 3 of 8)
	Date Prepared: 2024-07-05T20:56:42-04:00

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	89	No	2,883.6	☐	☐
Total Designed Watts: CONDITIONED SPACES								2,883.6		

[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
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldgs B.1 & B.2	**Report Page:** (Page 4 of 8)
	Date Prepared: 2024-07-05T20:56:42-04:00

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
Library Reading Room L4	Library - Reading Area	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Library L1	Library - Reading Area	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Conference	Conference, Multipurpose and Meeting Area	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Office	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Hallway	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom 5	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom 6	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Classroom 7	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				
					2E202, 2E204				

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldgs B.1 & B.2	**Report Page:** (Page 5 of 8)
	Date Prepared: 2024-07-05T20:56:42-04:00

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/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Library Reading Room L4	Library - Reading Area	0.8	902	721.6	No	No
Library L1	Library - Reading Area	0.8	777	621.6	No	No
Conference	Conference, Multipurpose and Meeting Area	0.75	266	199.5	No	No
Office	Office (<=250 square feet)	0.65	148	96.2	No	No
Hallway	Corridor	0.4	92	36.8	No	No
Classroom 5	Classroom, Lecture, or Training Vocational	0.6	909	545.4	No	No
Classroom 6	Classroom, Lecture, or Training Vocational	0.6	894	536.4	No	No
Classroom 7	Classroom, Lecture, or Training Vocational	0.6	888	532.8	No	No
		TOTALS:	4,876	3,290.3	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.

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldgs B.1 & B.2	**Report Page:** (Page 6 of 8)
	Date Prepared: 2024-07-05T20:56:42-04:00

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
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldgs B.1 & B.2	**Report Page:** (Page 7 of 8)
	Date Prepared: 2024-07-05T20:56:42-04:00

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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.	Library Reading Room L4; Library L1; Conference; Office ; Hallway; Classroom 5; Classroom 6; Classroom 7
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Library Reading Room L4; Library L1; Conference; Office ; Hallway; Classroom 5

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldgs B.1 & B.2	**Report Page:** (Page 8 of 8)
Project Address: 1371 Detroit Ave, Concord, CA 94520	**Date Prepared:** 2024-07-05T20:56:42-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

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Company: Atium Engineering	Signature Date: 7/10/24
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Company: Atium Engineering	Date Signed: 7/10/24
Address: 3533 York Ln	License: E19208
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Project Name: Meadow Homes ES Modernization Increment 2 - Bldg D.2	**Report Page:** (Page 1 of 7)
Project Address: 1371 Detroit Ave, Concord, CA 94520	**Date Prepared:** 2024-07-05T18:35:18-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Clayton	04	Total Conditioned Floor Area (ft²)	905
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	905	Area Category Method	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	905			

AGENCY APPROVAL DSA# 01-121400

196
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TEL (408) 715-4470

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PROFESSIONAL STAMP



REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
SCHEDULES

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E502

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\Inc 2\2347.50 - MH - 2E500 - Title 24.dwg
LAST SAVED ON: 7/10/24 at 11:04pm, PLOTTED ON: 7/18/24 at 10:13am
DATE PLOTTED: 8/29/2023 11:49:13 AM FILE LOCATION: C:\Users\SkimJ\Documents\23119.01_MTDUSD_MEADOW HOMES ES MODERNIZATION_A23_skimJ32Q7M.rvt

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldg D.2	**Report Page:** (Page 2 of 7)
	Date Prepared: 2024-07-05T18:35:18-04:00

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
									Adjustments		
	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)	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		543			=	543	≥	388.8		= 388.8	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: Meadow Homes ES Modernization Increment 2 - Bldg D.2	**Report Page:** (Page 3 of 7)
	Date Prepared: 2024-07-05T18:35:18-04:00

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	
									Field Inspector	
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	Pass	Fail
L1/L1E	L1/L1E	No	NA	32.4	Mfr. Spec	12	No	388.8	☐	☐
Total Designed Watts: CONDITIONED SPACES								388.8		

[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	
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: Meadow Homes ES Modernization Increment 2 - Bldg D.2	**Report Page:** (Page 4 of 7)
	Date Prepared: 2024-07-05T18:35:18-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
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	Pass	Fail
Classroom 14	Classroom, Lecture, or Training Vocational	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	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
Classroom 14	Classroom, Lecture, or Training Vocational	0.6	905	543	No	No
		TOTALS:	905	543	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldg D.2	**Report Page:** (Page 5 of 7)
	Date Prepared: 2024-07-05T18:35:18-04:00

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.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldg D.2	**Report Page:** (Page 6 of 7)
	Date Prepared: 2024-07-05T18:35:18-04:00

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

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 14
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Classroom 14

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldg D.2	**Report Page:** (Page 7 of 7)
Project Address: 1371 Detroit Ave, Concord, CA 94520	**Date Prepared:** 2024-07-05T18:35:18-04:00

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: 7/10/24
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: 7/10/24
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: Meadow Homes ES Modernization Increment 2 - Bldg E	**Report Page:** (Page 1 of 9)
Project Address: 1371 Detroit Ave, Concord, CA 94520	**Date Prepared:** 2024-07-05T20:02:28-04:00

A. GENERAL INFORMATION

01	Project Location (city)	04	Total Conditioned Floor Area (ft²)
02	Climate Zone	05	Total Unconditioned Floor Area (ft²)
03	Occupancy Types Within Project (select all that apply):	06	# of Stories (Habitable Above Grade)

Clayton | 5,196 | 12 | 0 | 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	5196	Area Category Method	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	5196			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldg E	**Report Page:** (Page 2 of 9)
	Date Prepared: 2024-07-05T20:02:28-04:00

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
									Adjustments		
	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)	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		2,903.2			=	2,903.2	≥	2,824		= 2824	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: Meadow Homes ES Modernization Increment 2 - Bldg E	**Report Page:** (Page 3 of 9)
	Date Prepared: 2024-07-05T20:02:28-04:00

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	
									Field Inspector	
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	Pass	Fail
L1/L1E	L1/L1E	No	NA	32.4	Mfr. Spec	75	No	2,430	☐	☐
S1	S1	No	NA	17	Mfr. Spec	19	No	323	☐	☐
L2	L2	No	NA	14.2	Mfr. Spec	5	No	71	☐	☐
Total Designed Watts: CONDITIONED SPACES								2,824		

[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# 01-121400

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

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

MECHANICAL ENGINEER
CYPRESS ENGINEERING GROUP
9 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

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

PROFESSIONAL STAMP



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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
SCHEDULES

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E503

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\inc 2\2347.50 - MH - 2E500 - Title 24.dwg
LAST SAVED ON: 7/10/24 at 11:04pm, PLOTTED ON: 7/18/24 at 10:13am
DATE PLOTTED: 8/29/2023 11:49:13 AM FILE LOCATION: C:\Users\tkim\Documents\23119.01_MTDUSD_MEADOW HOMES ES MODERNIZATION_A23_skim32Q7M.rvt

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldg E	**Report Page:**	**(Page 4 of 9)**
	Date Prepared:	2024-07-05T20:02:28-04:00

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 19	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom 18	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom 17	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Kindergarten 16	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Kindergarten 15	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Storage 19	Storage - MF common areas	Readily Accessible	Dimmer	Occupancy Sensor	Included	NA: Not daylit zone	No	☐	☐
Storage 18	Storage - MF common areas	Readily Accessible	Dimmer	Occupancy Sensor	Included	NA: Not daylit zone	No	☐	☐
Storage 17	Storage - MF common areas	Readily Accessible	Dimmer	Occupancy Sensor	Included	NA: Not daylit zone	No	☐	☐
Storage 16	Storage - MF common areas	Readily Accessible	Dimmer	Occupancy Sensor	Included	NA: Not daylit zone	No	☐	☐
Storage 15	Storage - MF common areas	Readily Accessible	Dimmer	Occupancy Sensor	Included	NA: Not daylit zone	No	☐	☐
Toilet 19T	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldg E	**Report Page:**	**(Page 5 of 9)**
	Date Prepared:	2024-07-05T20:02:28-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Toilet 18T	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Toilet 17T	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Toilet 16T	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Toilet 15T	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				
					2E205				

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 19	Classroom, Lecture, or Training Vocational	0.6	683	409.8	No	No
Classroom 18	Classroom, Lecture, or Training Vocational	0.6	681	408.6	No	No
Classroom 17	Classroom, Lecture, or Training Vocational	0.6	681	408.6	No	No
Kindergarten 16	Classroom, Lecture, or Training Vocational	0.6	947	568.2	No	No
Kindergarten 15	Classroom, Lecture, or Training Vocational	0.6	933	559.8	No	No
Storage 19	Storage - MF common areas	0.45	150	67.5	No	No
Storage 18	Storage - MF common areas	0.45	151	67.95	No	No
Storage 17	Storage - MF common areas	0.45	150	67.5	No	No
Storage 16	Storage - MF common areas	0.45	226	101.7	No	No

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldg E	**Report Page:**	**(Page 6 of 9)**
	Date Prepared:	2024-07-05T20:02:28-04:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Storage 15	Storage - MF common areas	0.45	222	99.9	No	No
Toilet 19T	Restroom	0.65	45	29.25	No	No
Toilet 18T	Restroom	0.65	45	29.25	No	No
Toilet 17T	Restroom	0.65	44	28.6	No	No
Toilet 16T	Restroom	0.65	44	28.6	No	No
Toilet 15T	Restroom	0.65	43	27.95	No	No
	TOTALS:	5,045	2,903.2	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: Meadow Homes ES Modernization Increment 2 - Bldg E	**Report Page:**	**(Page 7 of 9)**
	Date Prepared:	2024-07-05T20:02:28-04:00

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: Meadow Homes ES Modernization Increment 2 - Bldg E	**Report Page:**	**(Page 8 of 9)**
	Date Prepared:	2024-07-05T20:02:28-04:00

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 19; Classroom 18; Classroom 17; Kindergarten 16; Kindergarten 15; Storage 19; Storage 18; Storage 17; Storage 16; Storage 15; Toilet 19T; Toilet 18T; Toilet 17T; Toilet 16T; Toilet 15T
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Classroom 19; Classroom 18; Classroom 17; Kindergarten 16; Kindergarten 15; Storage 19; Storage 18; Storage 17; Storage 16; Storage 15

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Meadow Homes ES Modernization Increment 2 - Bldg E	**Report Page:**	**(Page 9 of 9)**
Project Address: 1371 Detroit Ave, Concord, CA 94520	**Date Prepared:**	2024-07-05T20:02:28-04:00

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: 7/10/24
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: 7/10/24
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.

AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP



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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
SCHEDULES

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E504

DATE: JULY 30202024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\inc 2\2347.50 - MH - 2E500 - Title 24.dwg
LAST SAVED ON: 7/10/24 at 11:04pm, PLOTTED ON: 7/18/24 at 10:13am
DATE PLOTTED: 8/29/2023 11:49:13 AM FILE LOCATION: C:\Users\Skim\Documents\23119.01_MTDUSD_MEADOW HOMES ES MODERNIZATION_A23_skim32Q7M.rvt

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.

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\Inc 2\2347.50 - MH - 2E500 - Title 24.dwg
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SHEET TITLE
SCHEDULES

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2E505

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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	I ACTIVATE LOCAL AUDIBLE SIGNAL/SOUNDER	J TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	K TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	L TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	Q SHUT DOWN HVAC UNITS OVER 2000CFM VIA RELAY MODULE	R	S UNLOCK EXIT DOORS VIA CARD ACCESS SYSTEM
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	●					●	●		●							●
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

F	MANUAL PULL STATION MODEL: SIGA-278 CSFM: 7150-1657:0129
S	SMOKE DETECTOR MODEL: SIGA-PCD CSFM: 7275-1657:0334
H C	HEAT DETECTOR - ABOVE CEILING MODEL: SIGA-HFD CSFM: 7270-1657:0333
H	HEAT DETECTOR - SEE DSA APPLICATION# 105316
F	HORN/STROBE MODEL: G1AVRF CSFM: 7135-1657:0502
F	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

"N2" DENOTES NOTIFICATION CIRCUIT
"4" DENOTES DEVICE NUMBER

"75" DENOTES CANDELA RATING OF STROBE

"S3" DENOTES SPEAKER CIRCUIT
"8" DENOTES DEVICE NUMBER

"1/4" DENOTES WATTAGE TAP SETTING OF SPEAKER. IF BLANK, SET TO MANUFACTURER RECOMMENDED LEVEL FOR PROPER INTELLIGIBILITY AND COVERAGE.

"D1" DENOTES DETECTION ZONE
"5" DENOTES DEVICE NUMBER

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 V/A 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 WORK.
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 UUUS (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).

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

2F000	GENERAL INFORMATION
2F100	SITE PLAN
2F200	FIRE ALARM PLANS
2F201	FIRE ALARM PLANS
2F202	FIRE ALARM PLANS
2F203	FIRE ALARM PLANS
2F204	FIRE ALARM PLANS
2F205	FIRE ALARM PLANS
2F206	FIRE ALARM PLANS

AGENCY APPROVAL DSA# 01-121400

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

GENERAL INFORMATION

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.

2F000

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 053024\05_Drawings\01_DWG\Meadow Homes\Inc 2\23347.50 - MH - 2F000 - General Information.dwg
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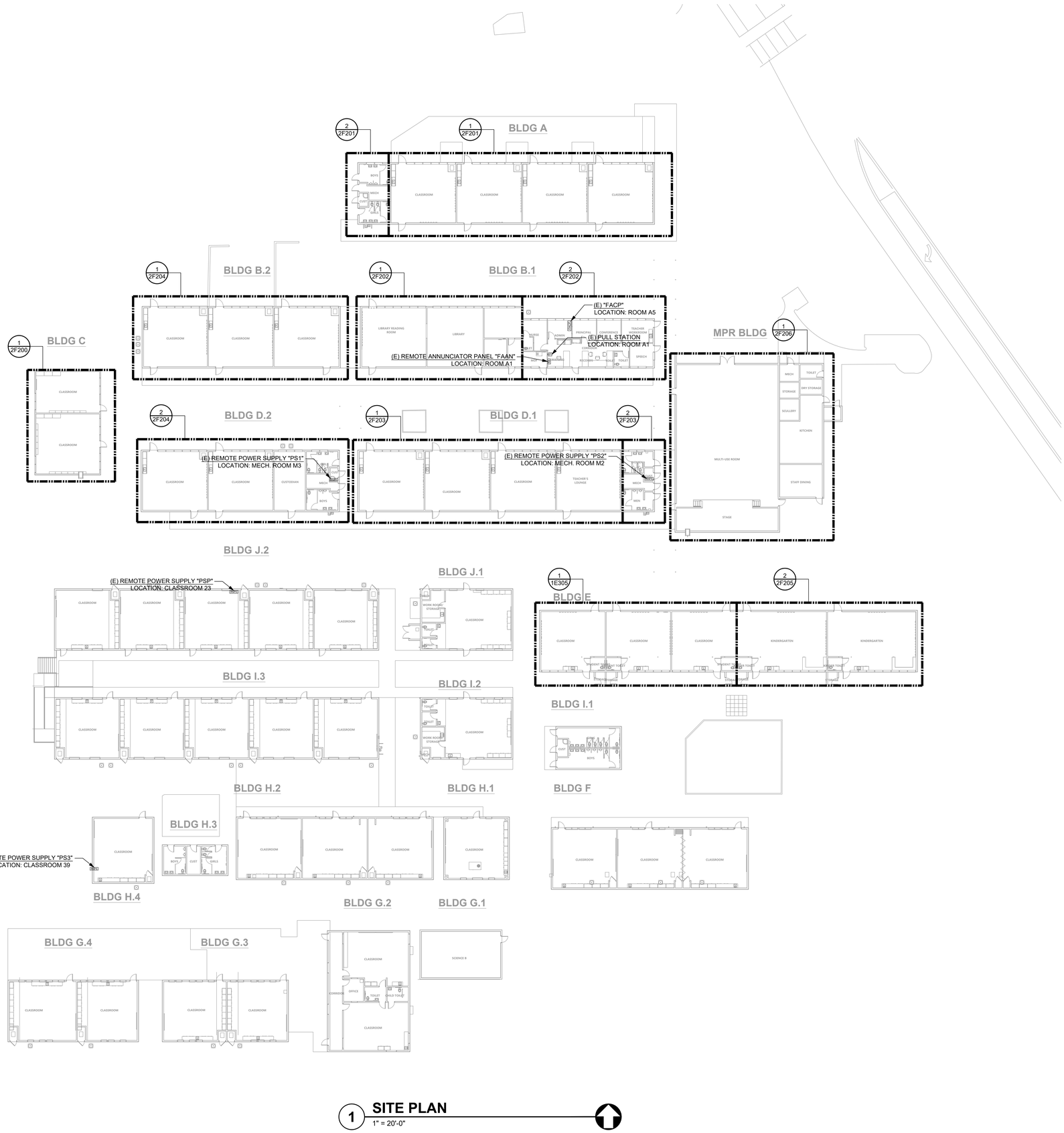
DATE PLOTTED: 8/29/2023 11:49:13 AM FILE LOCATION: C:\Users\SkimDocuments\23119.01_MTDUSD_MEADOW HOMES ES MODERNIZATION_A23_skim32Q7M.rvt



1 SITE PLAN
1" = 20'-0"

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 053024105_Drawings\01_DWG\Meadow Homes\Inc 2\2347.50 - MH - 2F100 - Site Plan.dwg
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SHEET TITLE
SITE PLAN

INCREMENT: INC. 2

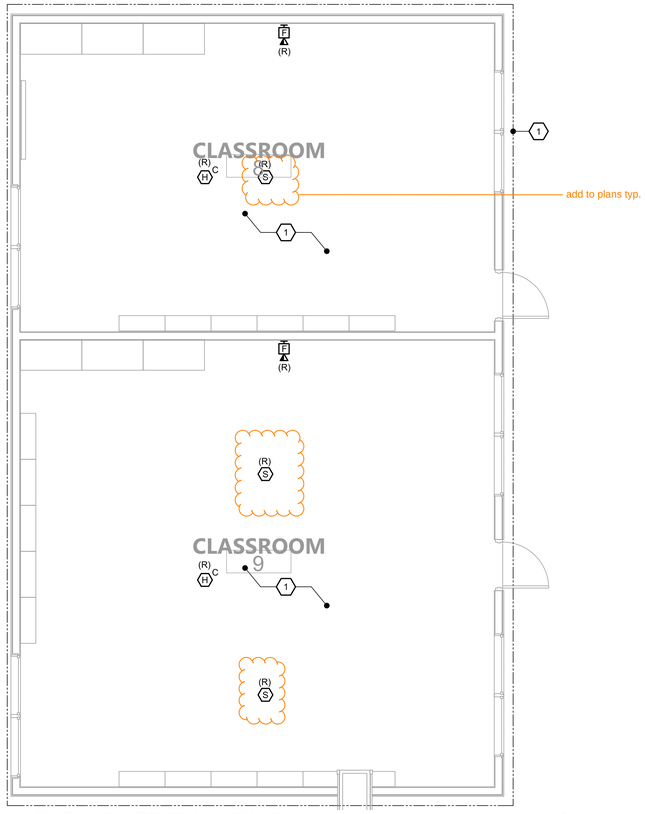
DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2F100

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FIRE ALARM WIRE TYPES			
TAG	**TYPE**	**GAUGE**	**DEVICE TYPE**
A	SHIELDED TWISTER PAIR FPLR	#14/2	SLC INDOOR
Au	UNSHIELDED TWISTER PAIR FPL	#14/2	SLC UNDERGROUND
B	SHIELDED TWISTER PAIR FPLR	#14/2	NAC INDOOR
Bu	UNSHIELDED TWISTER PAIR FPL	#12/2	NAC UNDERGROUND
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
Cu	SHIELDED TWISTER PAIR FPL	#14/2	SPEAKER UNDERGROUND
Du	2-STRAND MULTIMODE FIBER	N/A	DIGITAL AMPLIFICATION LOOP



1 **BLDG C - FIRE ALARM PLAN**
1/4" = 1'-0"

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.

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(#) SHEET NOTES

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SHEET TITLE

FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.

2F200

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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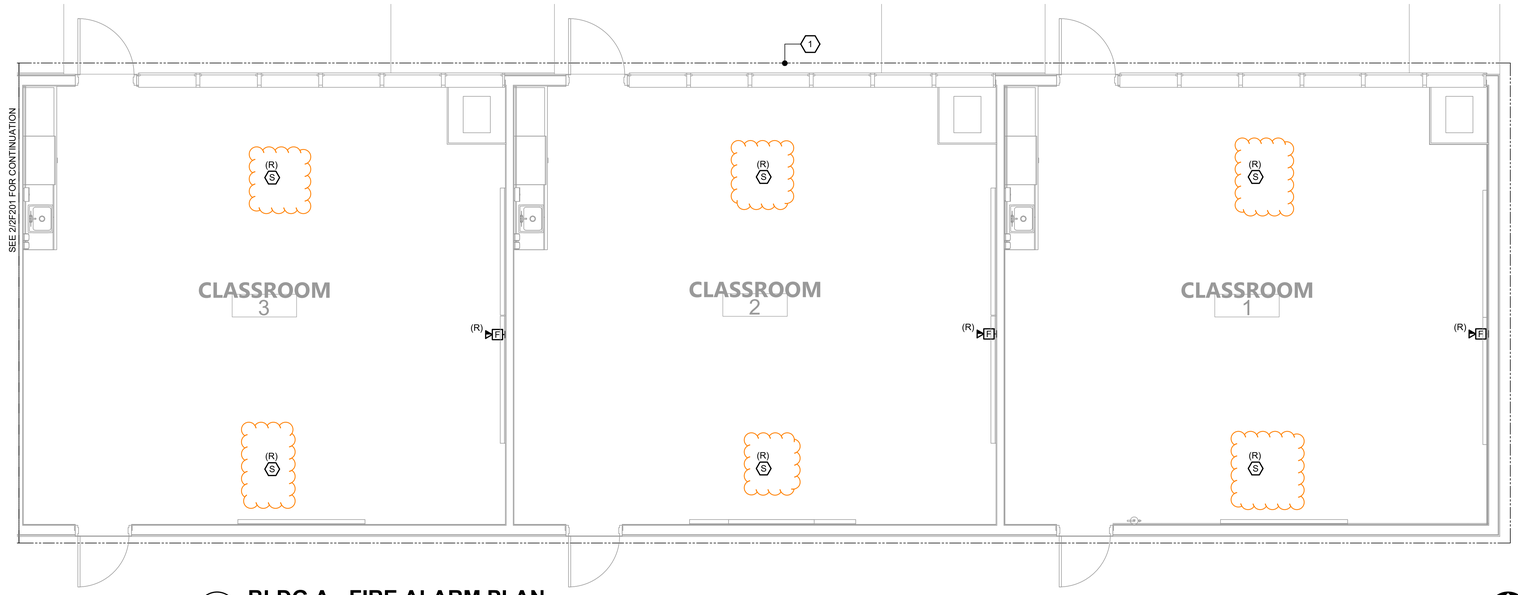
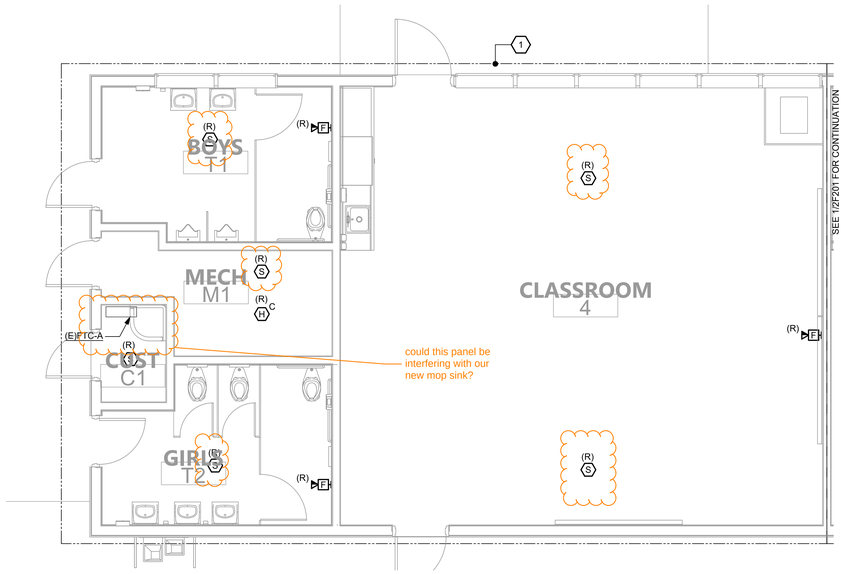


1 BLDG A - FIRE ALARM PLAN
1/4" = 1'-0"



2 BLDG A - FIRE ALARM PLAN
1/4" = 1'-0"

GENERAL NOTES

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SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2F201

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 053024\05_Drawings\01_DWGs\Meadow Homes\Inc 2\2347.50 - MH - 2F200 - Fire Alarm Plan.dwg
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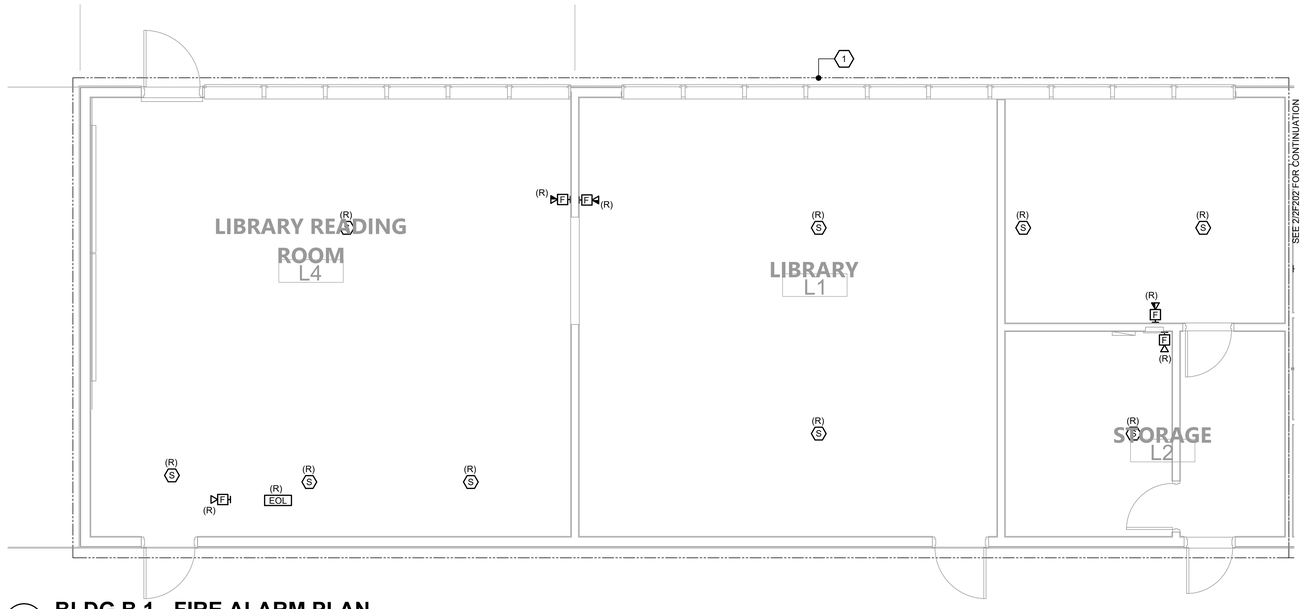

1 BLDG B.1 - FIRE ALARM PLAN

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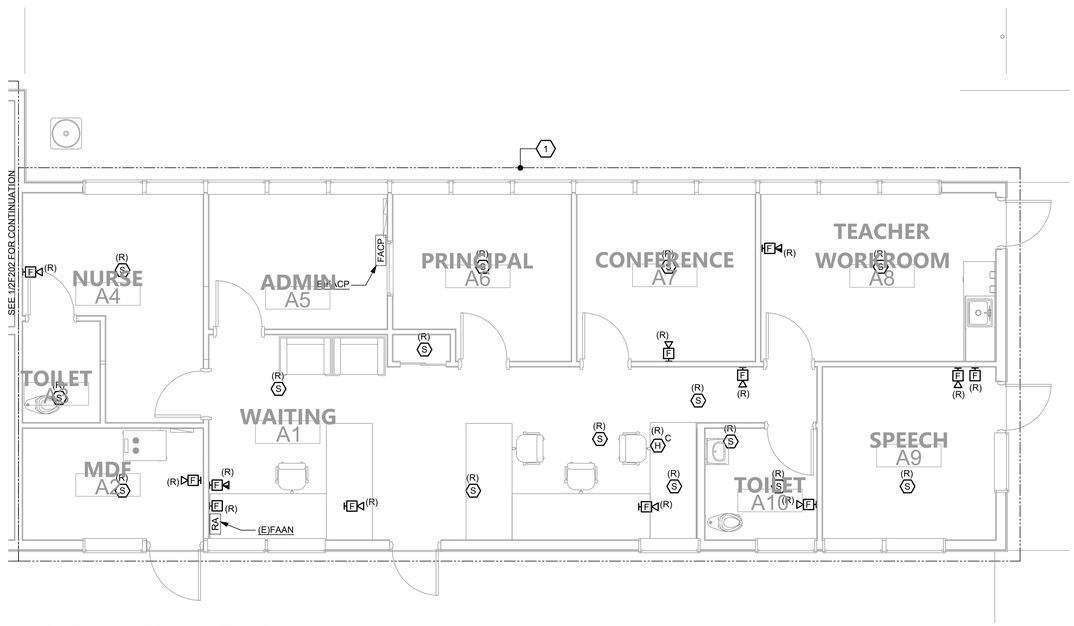

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2F202

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 05302405_Drawings\01_DWGs\Meadow Homes\Inc 2\2347.50 - MH - 2F200 - Fire Alarm Plan.dwg
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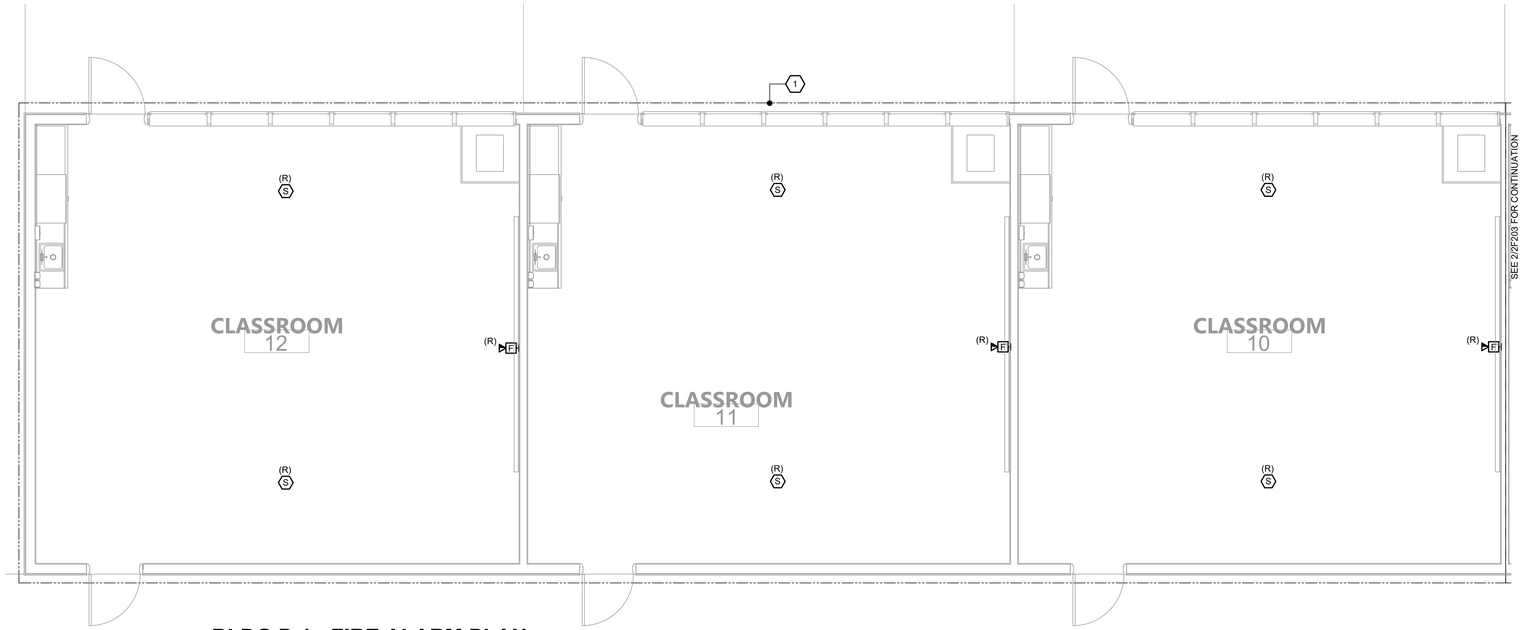
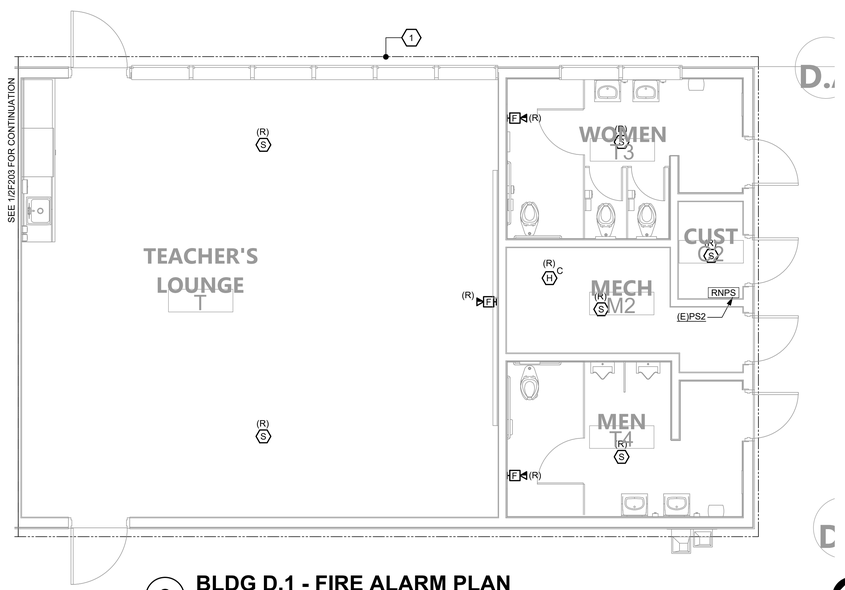
FIRE ALARM WIRE TYPES			
TAG	**TYPE**	**GAUGE**	**DEVICE TYPE**
A	SHIELDED TWISTER PAIR FPLR	#14/2	SLC INDOOR
Au	UNSHIELDED TWISTER PAIR FPL	#14/2	SLC UNDERGROUND
B	SHIELDED TWISTER PAIR FPLR	#14/2	NAC INDOOR
Bu	UNSHIELDED TWISTER PAIR FPL	#12/2	NAC UNDERGROUND
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
Cu	SHIELDED TWISTER PAIR FPL	#14/2	SPEAKER UNDERGROUND
Du	2-STRAND MULTIMODE FIBER	N/A	DIGITAL AMPLIFICATION LOOP



1 BLDG D.1 - FIRE ALARM PLAN
1/4" = 1'-0"



2 BLDG D.1 - FIRE ALARM PLAN
1/4" = 1'-0"

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.

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AGENCY APPROVAL DSA# 01-121400

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SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2F203

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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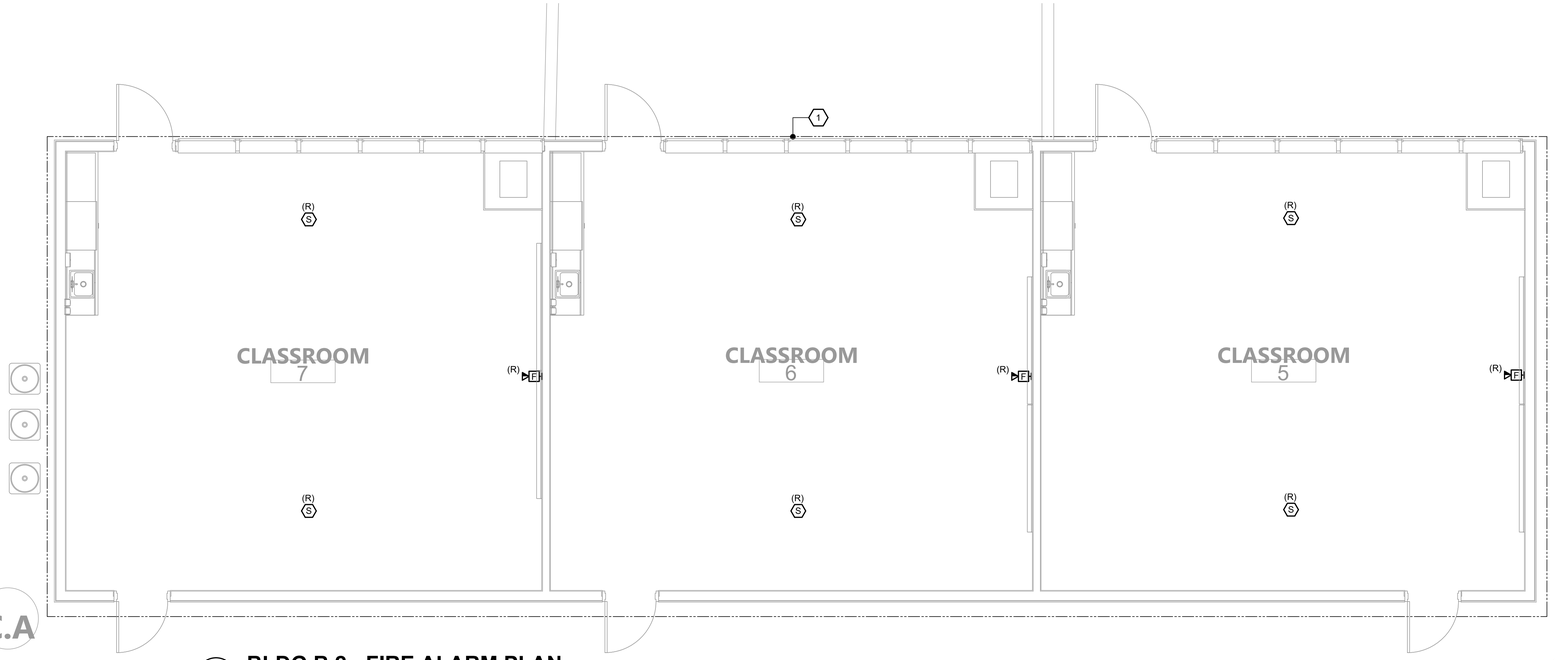
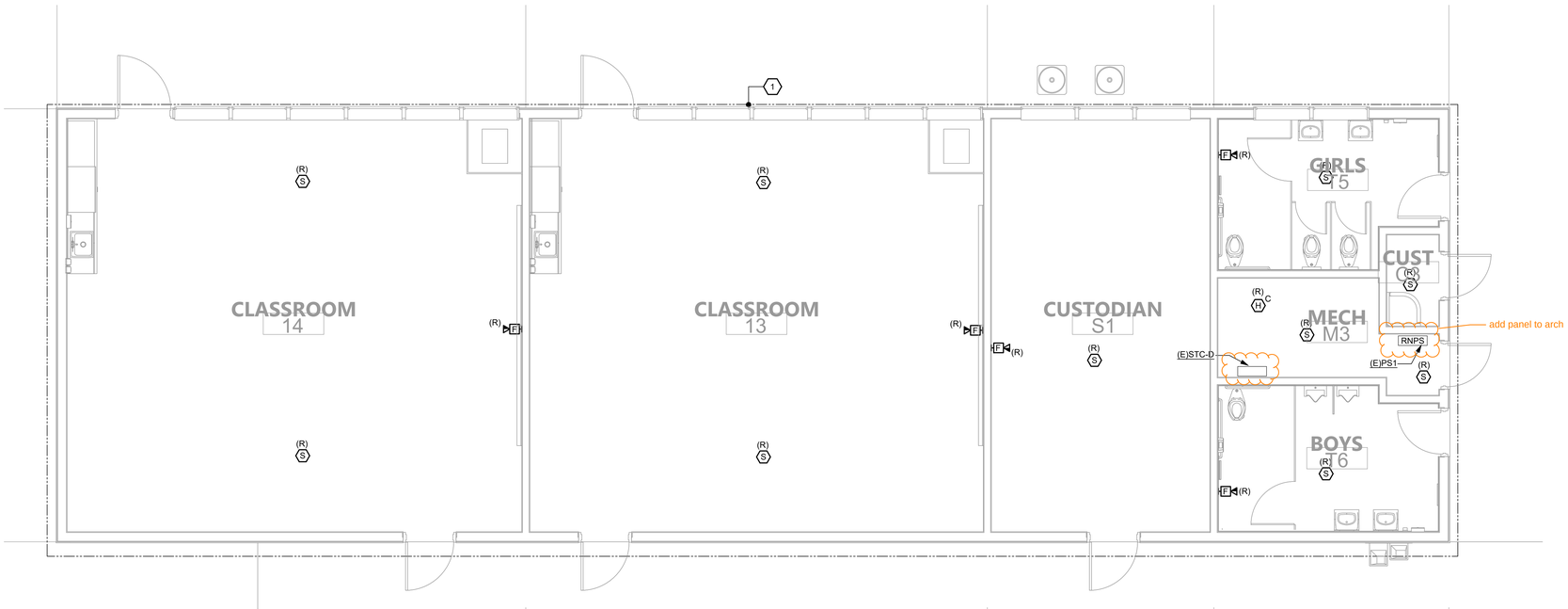


1 BLDG B.2 - FIRE ALARM PLAN
1/4" = 1'-0"



2 BLDG D.2 - FIRE ALARM PLAN
1/4" = 1'-0"

GENERAL NOTES

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SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
2F204

DATE: JULY 30, 2024

CONSTRUCTION DOCUMENTS

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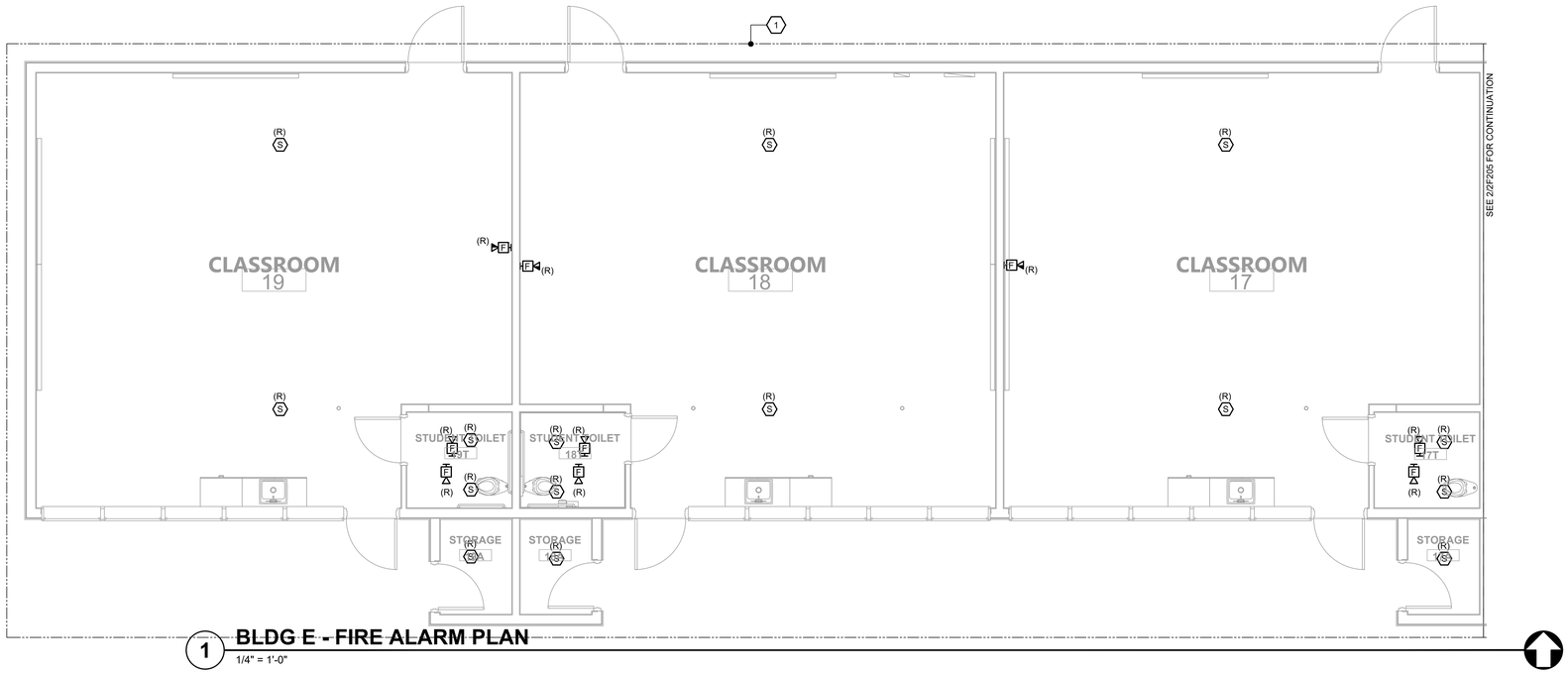
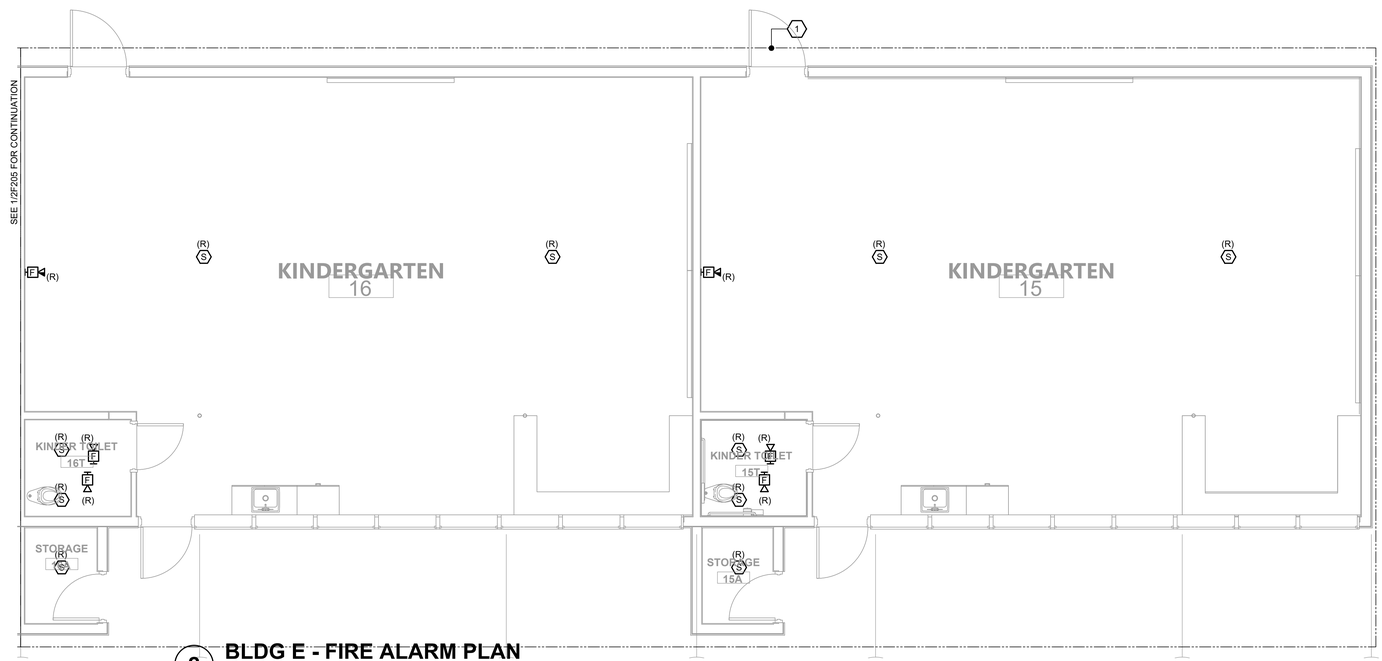


1 **BLDG E - FIRE ALARM PLAN**
1/4" = 1'-0"



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SHEET TITLE
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INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
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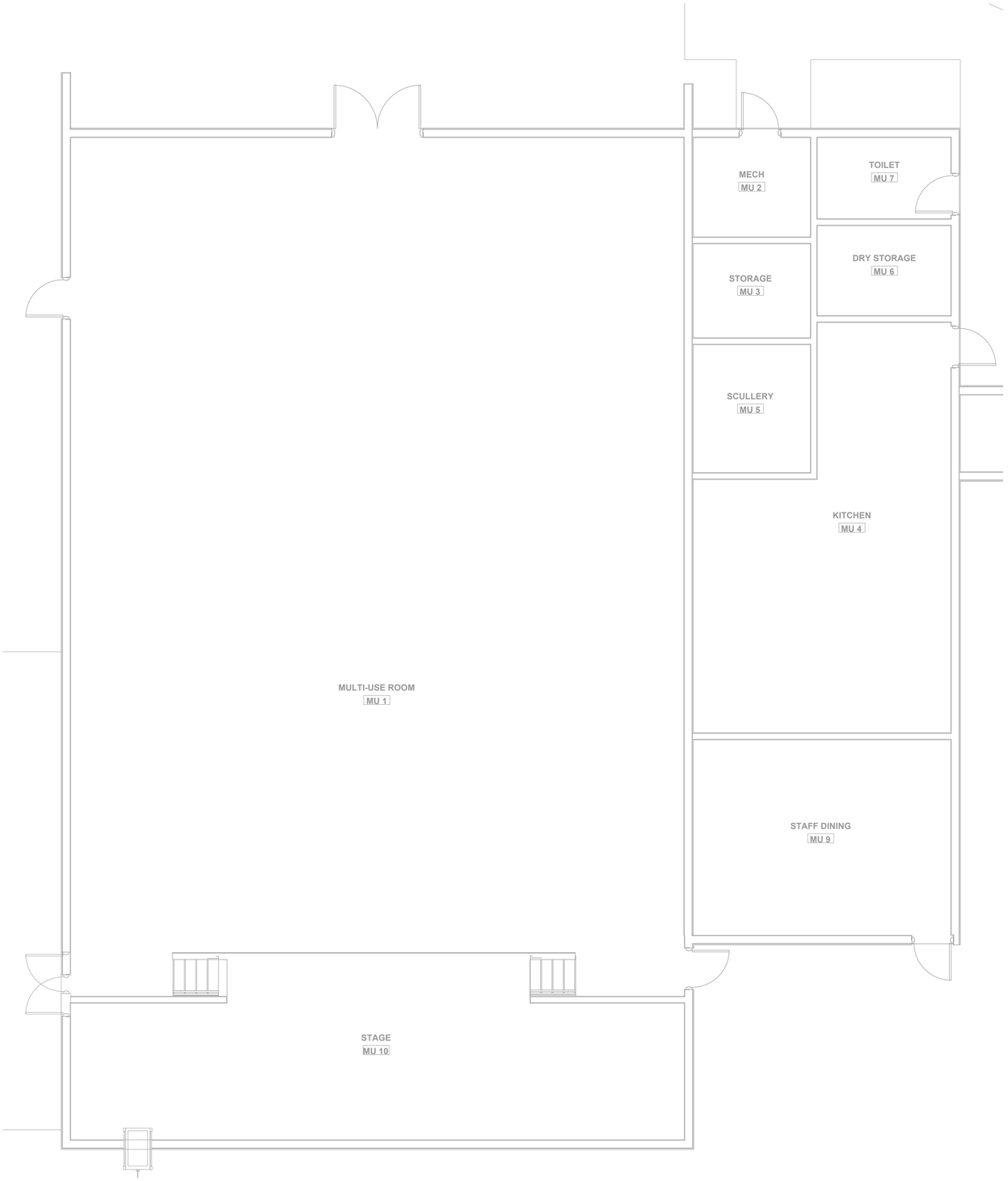

1 **MPR BLDG - FIRE ALARM PLAN**
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AGENCY APPROVAL DSA# 01-121400

1926

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INCREMENT: INC. 2

DRAWN BY: TL JOB NUMBER: 23119.02

SHEET NO.
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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-801)(2 2T-802)
G	GROUND BOX	EXISTING	EXISTING	N/A
J	JUNCTION BOX	COMMERCIAL GENERIC	N/A	GREY = EXISTING (8 2T-801)
– – – –	UNDERGROUND CONDUIT	COMMERCIAL GENERIC	N/A	GREY = EXISTING
———	CONDUIT (EMT & GRC)	COMMERCIAL GENERIC	N/A	GREY = EXISTING (11 2T-800)(12 2T-800)(13 2T-800)
E	CONDUIT STUB	COMMERCIAL GENERIC	N/A	GREY = EXISTING
2300	SURFACE RACEWAY	WIREMOLD	WM2300	N/A (1 2T-801)
J J J	J-HOOK (SINGLE/STACKED)	PANDUIT	SEE 27 05 00	N/A (3 2T-800)
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)
AP	CEILING MOUNTED WIRELESS ACCESS POINT	ARUBA	SEE 27 21 00	N/A
WP AP	CAT6A DATA DROP LOCATION (QTY = 2) - EXTERIOR WIRELESS ACCESS POINT	PANDUIT	SEE 27 10 00	N/A (4 2T-802)
AP	EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT	ARUBA	SEE 27 21 00	N/A
W	CAT6A DATA DROP LOCATION (QTY = 1) - IP PHONE	PANDUIT	SEE 27 10 00	+48 AFF, PHONE PLATE (9 2T-801)
W	PHONE HANDSET EQUIPMENT (WALL MOUNT)	POLY	SEE 27 21 00	OFCI
EXT	CAT6A DATA DROP LOCATION (QTY = 1) - NETWORK CAMERA	PANDUIT	SEE 27 15 00	N/A
EXT	NETWORK CAMERA	AXIS	SEE 28 20 00	N/A (0 2T-800)(2 2T-801)(1 2T-802)(2 2T-803)
NVR	NETWORK VIDEO RECORDER	EXISTING	EXISTING	N/A
STC	SIGNAL TERMINAL CABINET	EXISTING	EXISTING	N/A
TGB	GROUND BUS BAR	PANDUIT	SEE 27 10 00	N/A (7 2T-800)(8 2T-800)
DC	CAT6A DATA DROP LOCATION - DROP CEILING INTERCOM SPKR/IP MOD	ATLAS	SEE SHEET 1T-701	N/A
CLOCK SPKR	CAT6A DATA DROP LOCATION (QTY = 1) - IP CLOCK/SPEAKER/IP MODULE COMBO BOX	ATLAS	SEE SHEET 1T-701	N/A (6 2T-800)
	CAT6A DATA DROP LOCATION - WALL MOUNTED SPEAKER/IP MODULE	ATLAS	SEE SHEET 1T-701	N/A (5 2T-800)
WP	CAT6A DATA DROP LOCATION - EXTERIOR INTERCOM SPEAKER/IP MODULE	ATLAS	SEE SHEET 1T-701	N/A (4 2T-800)
TEL	PHONE HANDSET EQUIPMENT	POLY	SEE 27 21 00	OFCI
FACP	FIRE ALARM CONTROL PANEL	EXISTING	EXISTING	N/A
IC-HE	INTERCOM CONTROL HEADEND	EXISTING	EXISTING	N/A
IP-CON	INTERCOM CONSOLE	ATLAS	SEE SHEET 1T-701	N/A
MPOE	MINIMUM POINT OF ENTRY	EXISTING	EXISTING	N/A
12:00	CAT6A DATA DROP LOCATION (QTY = 1) - IP CLOCK	ATLAS	SEE SHEET 1T-701	OFCI
	LADDER RACK	CHATSWORTH PRODUCTS	11275-712	(14 2T-800)(15 2T-800)(16 2T-800)(17 2T-800)(18 2T-800)(19 2T-800)
BMS	BMS SYSTEM	EXISTING	EXISTING	N/A
ES	CAT6A DATA DROP LOCATION (QTY = 1) - ENTRY STATION	EXISTING	EXISTING	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. THE CONTRACTOR SHALL PROVIDE ALL DATA NETWORK EQUIPMENT, LICENSES, SOFTWARE, AND ACCESSORIES FOR A COMPLETE AND FULLY OPERATIONAL DATA NETWORK SYSTEM.
3. ALL EQUIPMENT SHALL BE NEW AND CONTRACTOR FURNISHED, UNO.
4. THE CONTRACTOR SHALL REMOVE OLD OR ABANDONED DATA NETWORK AND AUDIO/VISUAL COMPONENTS, INCLUDING DEVICES, MOUNTS, ENCLOSURES, WIRE AND PATHWAY.
5. 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: 03/12/2024

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 #)

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 (INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), CCR, TITLE 24, PART 3 (NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), CCR, TITLE 24, PART 4 (UNIFORM MECHANICAL CODE, WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), CCR, TITLE 24, PART 5 (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 (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
2019 NFPA 720: STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE (CO) DETECTION AND WARNING EQUIPMENT.

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 PLAN NEW
2T-301	TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN NEW
2T-700	TECHNOLOGY INFRASTRUCTURE SINGLE LINES
2T-701	TECHNOLOGY INFRASTRUCTURE CCTV VIEWS
2T-800	TECHNOLOGY INFRASTRUCTURE DETAILS
2T-801	TECHNOLOGY INFRASTRUCTURE DETAILS
2T-802	TECHNOLOGY INFRASTRUCTURE DETAILS
2T-803	TECHNOLOGY INFRASTRUCTURE DETAILS

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PROFESSIONAL STAMP

LICENSED ARCHITECT — C-36107 — NOT FOR CONSTRUCTION — 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 Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE COVER SHEET

INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

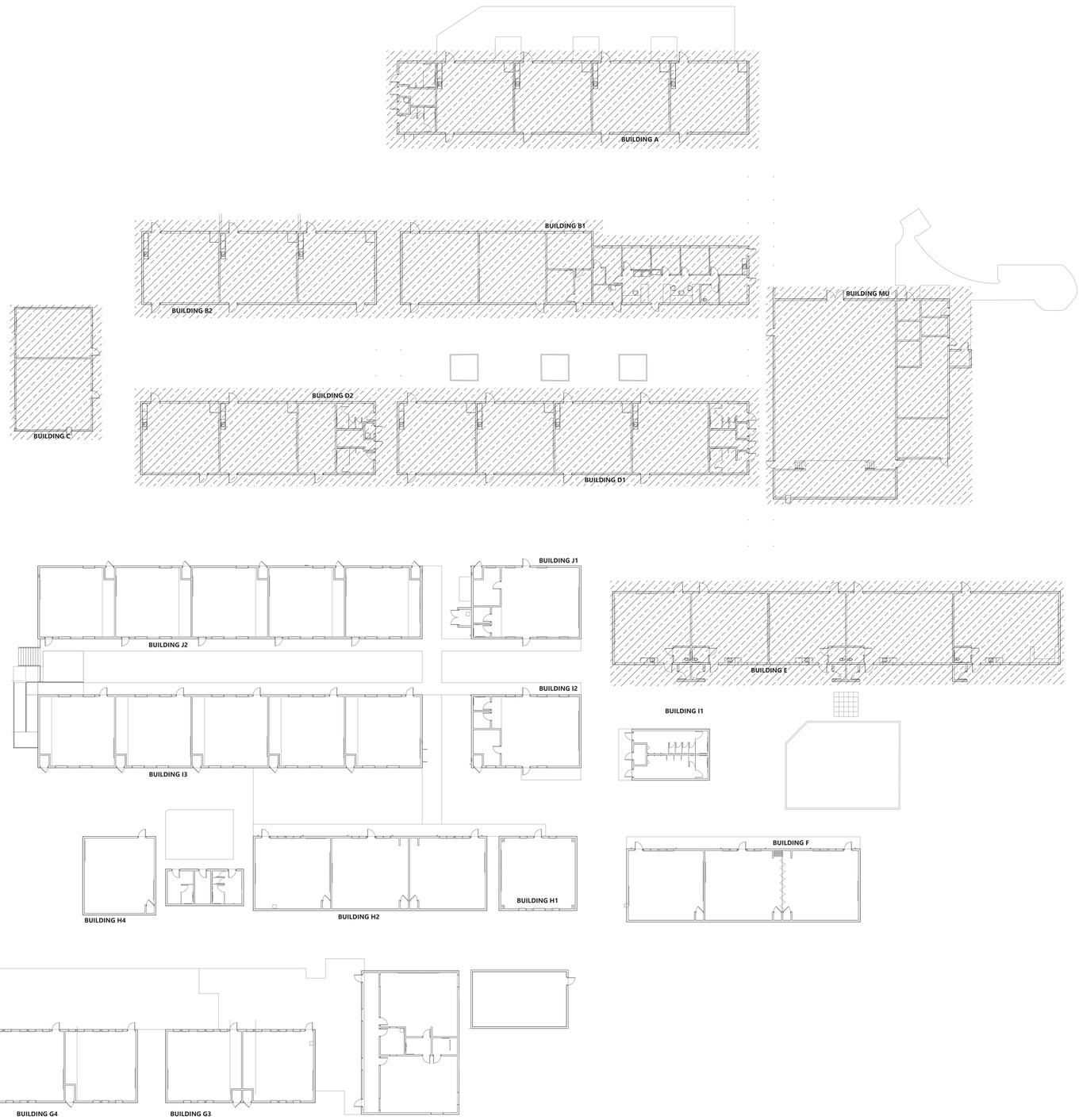
SHEET NO.

2T-000

DATE: JULY 30, 2024

100% CONSTRUCTION DOCUMENTS

DATE PLOTTED: 2/16/2024 6:04:49 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23119_MTDUSD_MEADOW HOMES ES MOD_INC02_A22_rvt



TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO

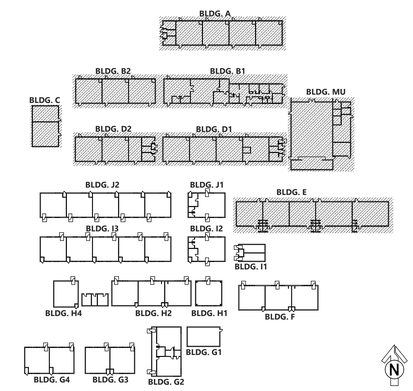
SCALE: 1"=20'

0 20 40

GENERAL NOTES:

1. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) DATA NETWORK COPPER AND FIBER CABLING FROM ENDPOINT TO ENDPOINT, INCLUDING WITHIN CONDUITS AND PULL BOXES.
2. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) ANALOG TELEPHONE CABLING FROM WALL PLATES TO 66-BLOCKS. 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.

KEY PLAN



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PROFESSIONAL STAMP

LICENSED ARCHITECT — KARLA A. RUSSELL — C-36107 — REN. 01-31-25 — STATE OF CALIFORNIA
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REVISIONS

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SHEET TITLE

TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO

INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

SHEET NO.

2T-010

DATE: JULY 30, 2024

100% CONSTRUCTION DOCUMENTS

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BACKBOX FROM WALL. PATCH AND PREP FOR PAINT.

SHEET NOTES CONT'D:

9 DEMO (E) ATOMIC BATTERY CLOCK. RETURN TO DISTRICT.

10 DEMO (E) NETWORK SWITCH ON SHELF OR WALL BRACKET, AS OCCURS. DEMO ALL (E) DATA DROPS TERMINATING AT THIS NETWORK SWITCH.

11 DEMO (E) EXTERIOR CAMERA, MOUNT, CABLING, AND SURFACE RACEWAY. PATCH AND PREP FOR PAINT, AND PROVIDE (N) BLANKING PLATES AND/OR END CAPS FOR ALTERED SURFACE RACEWAY.

12 DEMO (E) CONDUIT PENETRATION, J-BOX, AND ABANDONED CONDUIT. PATCH WALL.

13 DISCONNECT (E) BOGEN CABINET, DELIVER TO DISTRICT WAREHOUSE IN GOOD CONDITION. DEMO (E) BACKBOARD, 66 BLOCKS, INTERCOM CABLING, AND ABANDONED CONDUIT.

14 DEMO (E) PBX, DELIVER TO DISTRICT WAREHOUSE IN GOOD CONDITION. DEMO (E) BACKBOARD, 66 BLOCKS, INTERCOM CABLING, AND ABANDONED CONDUIT.

15 DEMO (E) MDF CABINET. IMPORTANT: PRIOR TO DEMO, SEE NOTES ON SHEET 2T-700 FOR SPECIFIC REQUIREMENTS.

16 DEMO (E) CLOCK POWER SUPPLY AND CABLING. SAFE OFF POWER, AS REQ'D.

17 DEMO (E) ANALOG PHONE 66 BLOCKS AND CABLING, THIS LOCATION. IMPORTANT: PRIOR TO DEMO, SEE NOTES ON SHEET 2T-701 FOR CUTOVER AND TEMPORARY SERVICE REQUIREMENTS.

AND PREP FOR PAINT.

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 VOLATE CABLING.

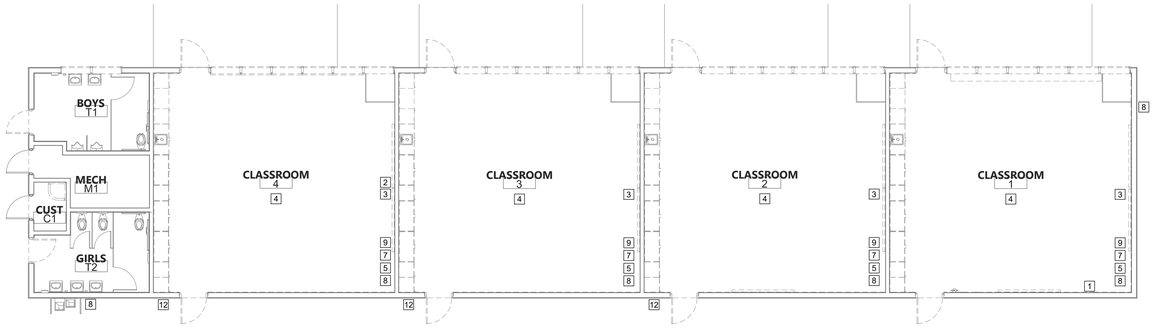
4 DEMO (E) WIRELESS AP, MOUNT, CABLING, AND SURFACE RACEWAY.

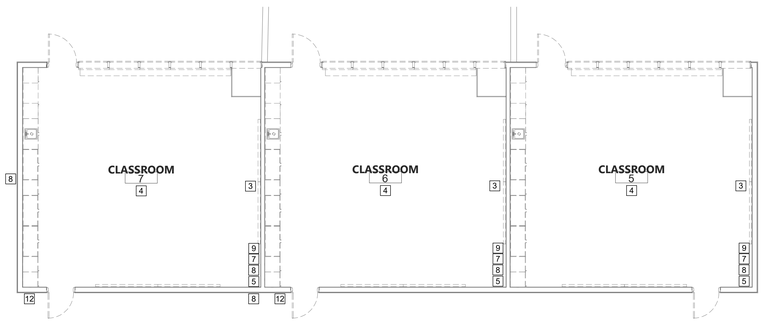
5 DEMO (E) ANALOG TELEPHONE, WALL PLATE, AND WIRING TO SOURCE. PROVIDE (N) BLANK WALL PLATE.

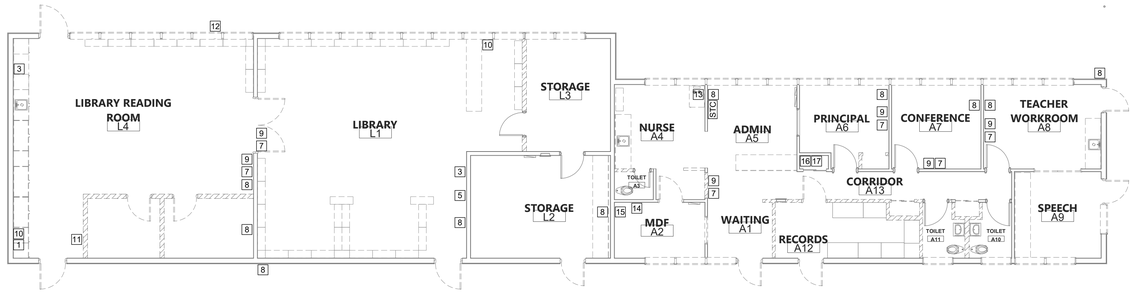
6 DEMO (E) LAPTOP DESK WALL UNIT.

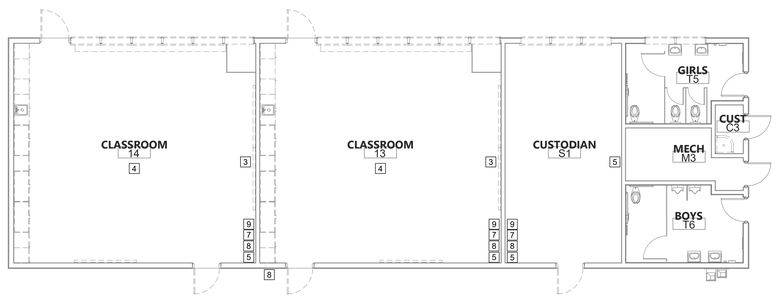
7 DEMO (E) CLOCK, BACKBOX, CONDUIT, AND CABLE TO HEADEND. PATCH AND PREP FOR PAINT.

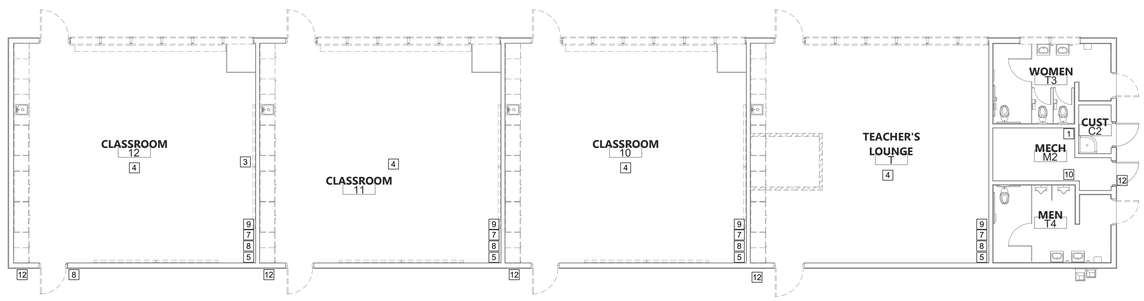
8 DEMO (E) SPEAKER. DEMO INTERCOM CABLE TO HEADEND. REMOVE BACKBOX FROM WALL. PATCH AND PREP FOR PAINT.











ABANDONED SURFACE RACEWAY. PATCH AND PREP FOR PAINT.

GENERAL NOTES CONT'D:

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.

GENERAL NOTES:

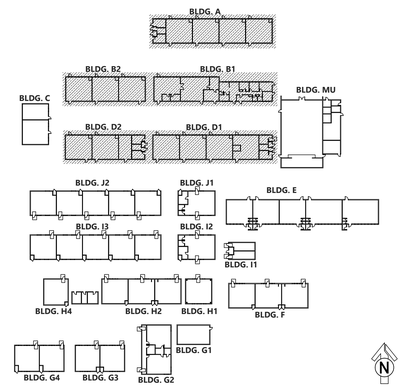
1. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) DATA NETWORK COPPER AND FIBER CABLING FROM ENDPOINT TO ENDPOINT, INCLUDING WITHIN CONDUITS AND PULL BOXES. IMPORTANT: PRIOR TO DEMO, SEE MDF GENERAL NOTES, SHEET 2T-700, FOR ADDITIONAL CLARIFICATION.
2. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) ANALOG TELEPHONE CABLING FROM WALL PLATES TO 66-BLOCKS. PROVIDE BLANK WALL PLATE AT ALL LOCATIONS, RETURN ANALOG PHONES TO DISTRICT. IMPORTANT: PRIOR TO DEMO, SEE COPPER SINGLE LINE NOTE, SHEET 2T-701, FOR ADDITIONAL CLARIFICATION.
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.

TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDINGS A, B1, B2, D1 AND D2

SCALE: 1/8"=1'

0 4 8 12 16

KEY PLAN



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PROFESSIONAL STAMP

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REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT

1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO
INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

SHEET NO.

2T-020

DATE: JULY 30, 2024

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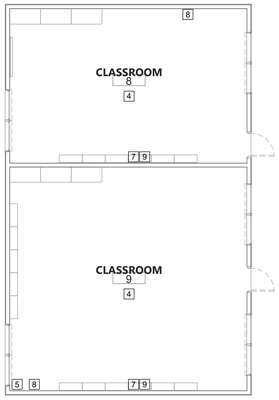
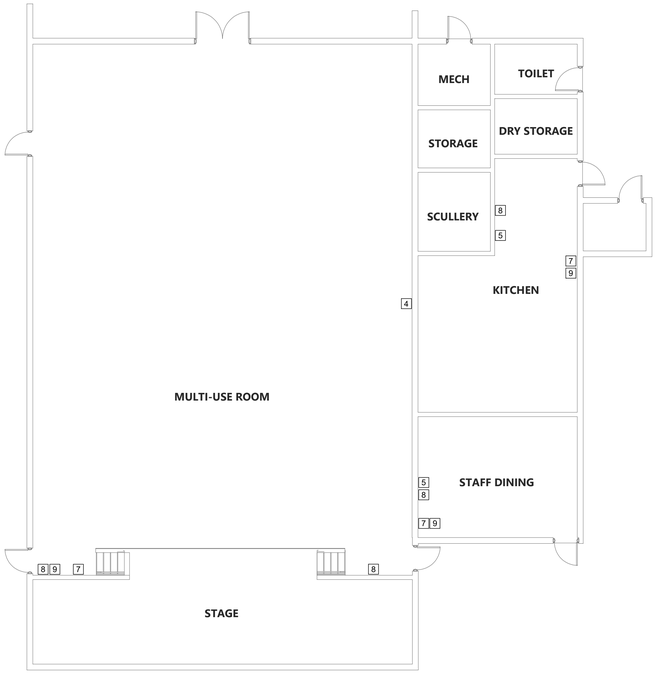




TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING C

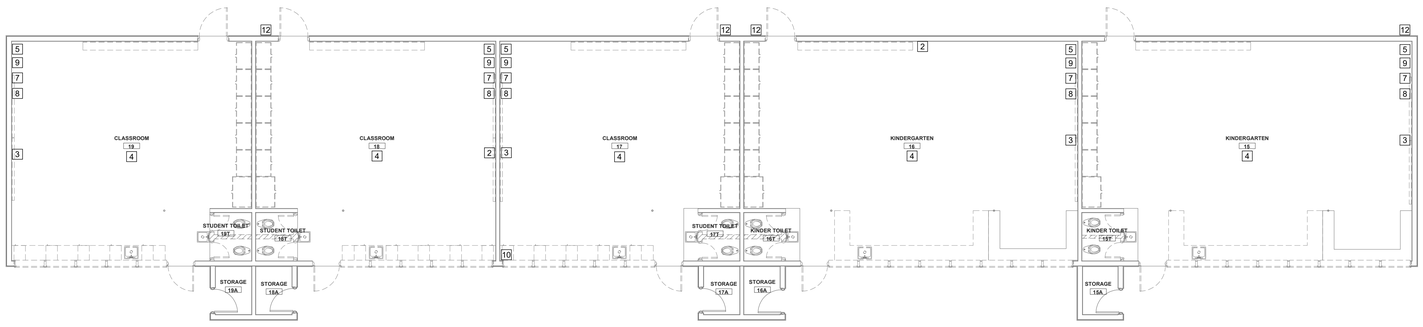
SCALE: 1/8"=1'

0 4 8 12 16

TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING MU

SCALE: 1/8"=1'

0 4 8 12 16



TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING E

SCALE: 1/8"=1'

0 4 8 12 16

GENERAL NOTES:

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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.

GENERAL NOTES CONT'D:

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.
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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.

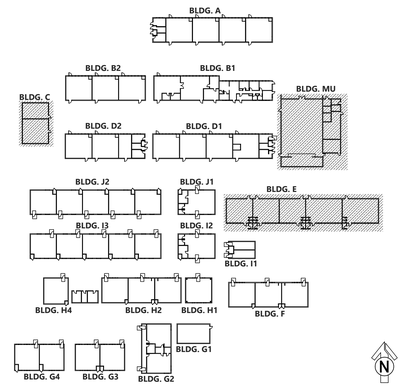
SHEET NOTES:

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 VOLATE 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) LAPTOP DESK WALL UNIT.
7. DEMO (E) CLOCK, BACKBOX, CONDUIT, AND CABLE TO HEADEND. PATCH AND PREP FOR PAINT.
8. DEMO (E) SPEAKER, DEMO INTERCOM CABLE TO HEADEND. REMOVE BACKBOX FROM WALL. PATCH AND PREP FOR PAINT.

SHEET NOTES CONT'D:

9. DEMO (E) ATOMIC BATTERY CLOCK. RETURN TO DISTRICT.
10. DEMO (E) NETWORK SWITCH ON SHELF OR WALL BRACKET, AS OCCURS. DEMO ALL (E) DATA DROPS TERMINATING AT THIS NETWORK SWITCH.
11. DEMO (E) EXTERIOR CAMERA, MOUNT, CABLING, AND SURFACE RACEWAY. PATCH AND PREP FOR PAINT, AND PROVIDE (N) BLANKING PLATES AND/OR END CAPS FOR ALTERED SURFACE RACEWAY.
12. DEMO (E) CONDUIT PENETRATION, J-BOX, AND ABANDONED CONDUIT. PATCH WALL.
13. DISCONNECT (E) BOGEN CABINET. DELIVER TO DISTRICT WAREHOUSE IN GOOD CONDITION. DEMO (E) BACKBOARD, 66 BLOCKS, INTERCOM CABLING, AND ABANDONED CONDUIT.
14. DEMO (E) PBX, DELIVER TO DISTRICT WAREHOUSE IN GOOD CONDITION. DEMO (E) BACKBOARD, 66 BLOCKS, INTERCOM CABLING, AND ABANDONED CONDUIT.
15. DEMO (E) MDF CABINET. IMPORTANT: PRIOR TO DEMO, SEE NOTES ON SHEET 2T-700 FOR SPECIFIC REQUIREMENTS.
16. DEMO (E) CLOCK POWER SUPPLY AND CABLING. SAFE OFF POWER, AS REQ'D.
17. DEMO (E) ANALOG PHONE 66 BLOCKS AND CABLING, THIS LOCATION. IMPORTANT: PRIOR TO DEMO, SEE NOTES ON SHEET 2T-701 FOR CUTOVER AND TEMPORARY SERVICE REQUIREMENTS.

KEY PLAN



AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP

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REVISIONS

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MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO

INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

SHEET NO.

2T-021

DATE: JULY 30, 2024

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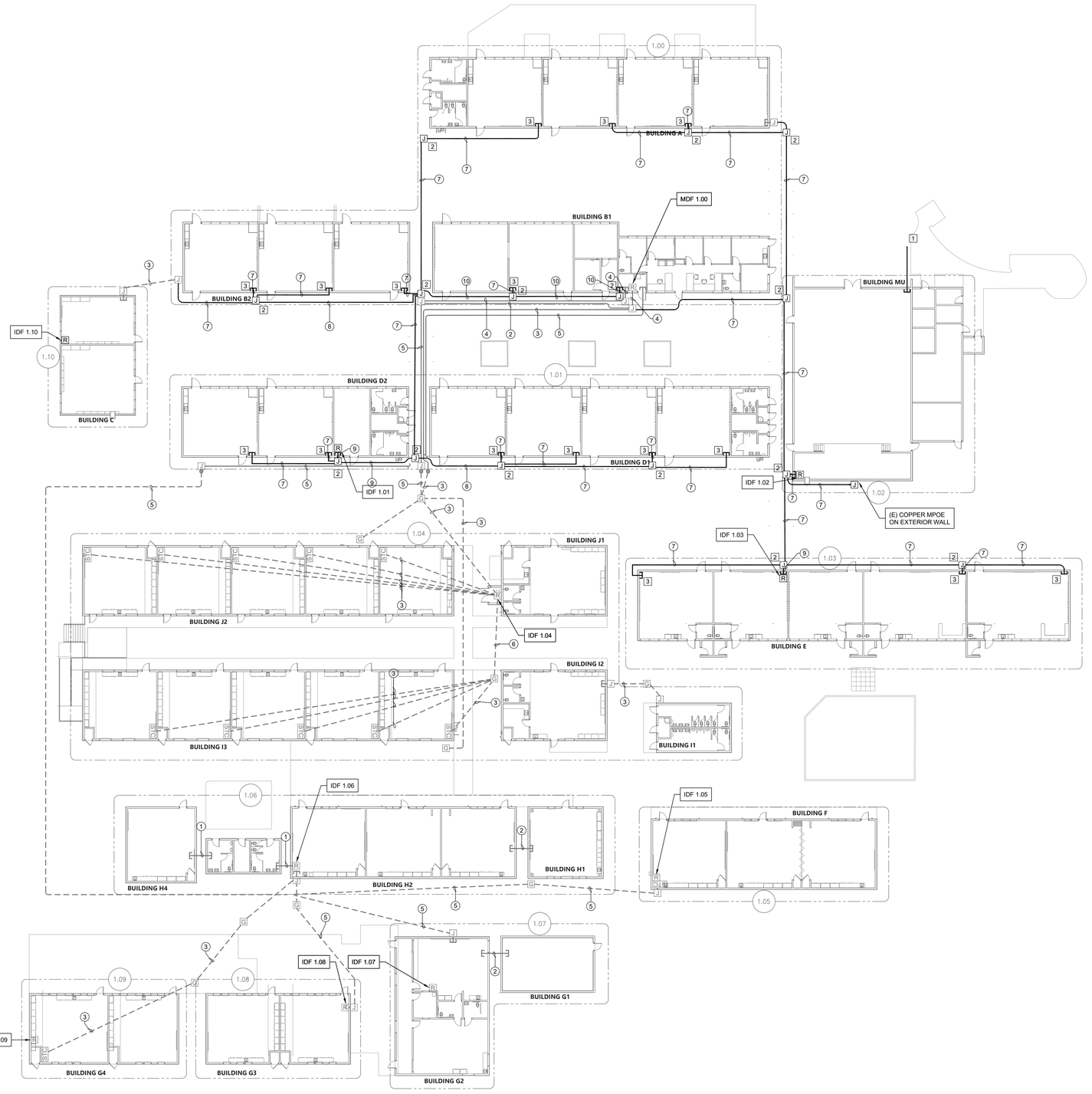

CONDUIT QTY. AND SIZE:

1. (E) 1 EA. 1-1/4" CONDUITS.
2. (E) 1 EA. 2" CONDUITS.
3. (E) 2 EA. 2" CONDUITS.
4. (E) 3 EA. 2" CONDUITS.
5. (E) 4 EA. 2" CONDUITS.
6. (E) 2 EA. 4" CONDUITS.
7. (N) 1 EA. 2" CONDUITS.
8. (N) 2 EA. 2" CONDUITS.
9. (N) 3 EA. 2" CONDUITS.
10. (N) 4 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.

SHEET NOTES:

1. PROVIDE 1 EA. (N) CAT6A DATA DROP AT (E) VIDEO INTERCOM ON GATE. INTERCEPT (E) CONDUIT AND REWORK TO (N) PENETRATION ON NORTH WALL OF MU. DEMO REMAINDER OF ABANDONED CONDUIT ACROSS WALL.
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) NEW 2" PENETRATION TO INTERIOR WITH (N) J-BOXES INTERIOR AND EXTERIOR. SEE DETAIL 8/2T-800.

TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW

SCALE: 1"=20'

0 20 40

AGENCY APPROVAL DSA# 01-121400

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SHEET TITLE

TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW
INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

SHEET NO.

2T-100

DATE: JULY 30, 2024

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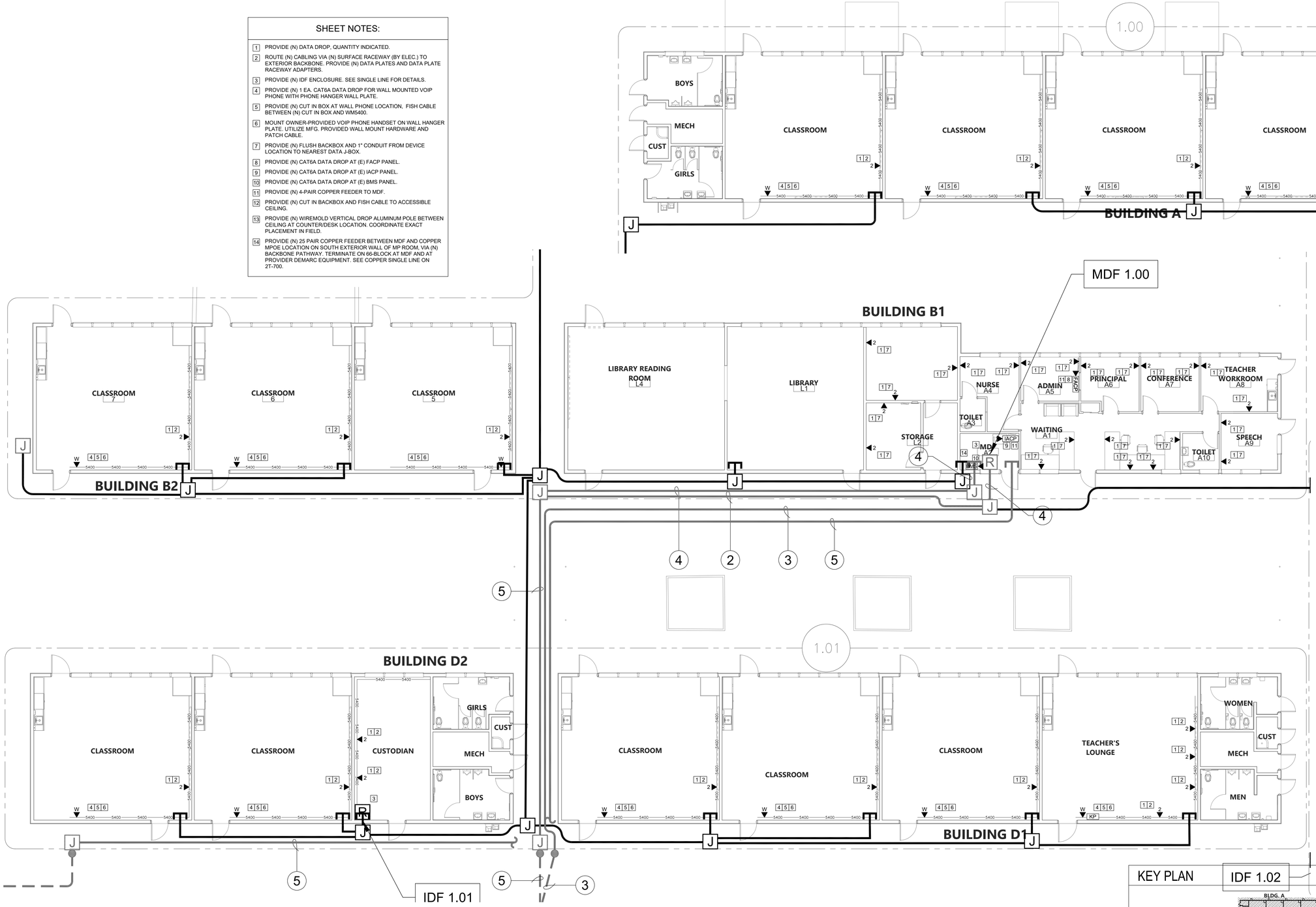
SHEET NOTES:

1. PROVIDE (N) 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. PROVIDE (N) IDF ENCLOSURE. SEE SINGLE LINE FOR DETAILS.
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) FLUSH BACKBOX AND 1" CONDUIT FROM DEVICE LOCATION TO NEAREST DATA J-BOX.
8. PROVIDE (N) CAT6A DATA DROP AT (E) FACP PANEL.
9. PROVIDE (N) CAT6A DATA DROP AT (E) IACP PANEL.
10. PROVIDE (N) CAT6A DATA DROP AT (E) BMS PANEL.
11. PROVIDE (N) 4-PAIR COPPER FEEDER TO MDF.
12. PROVIDE (N) CUT IN BACKBOX AND FISH CABLE TO ACCESSIBLE CEILING.
13. PROVIDE (N) WIREMOLD VERTICAL DROP ALUMINUM POLE BETWEEN CEILING AT COUNTER/DESK LOCATION. COORDINATE EXACT PLACEMENT IN FIELD.
14. PROVIDE (N) 25 PAIR COPPER FEEDER BETWEEN MDF AND COPPER MPOE LOCATION ON SOUTH EXTERIOR WALL OF MP ROOM, VIA (N) BACKBONE PATHWAY. TERMINATE ON 66-BLOCK AT MDF AND AT PROVIDER DEMARC EQUIPMENT. SEE COPPER SINGLE LINE ON 2T-700.



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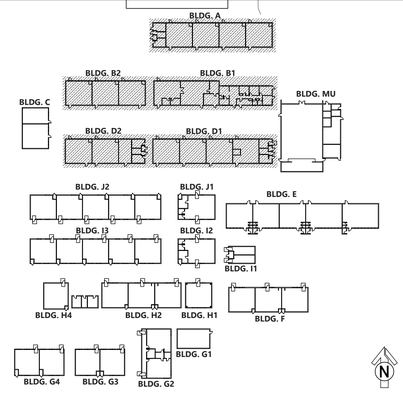
TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDINGS A, B1, B2, D1 AND D2

SCALE: 1/8"=1'

0 4 8 12 16

KEY PLAN



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INCREMENT: INC.2

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DATE: JULY 30, 2024

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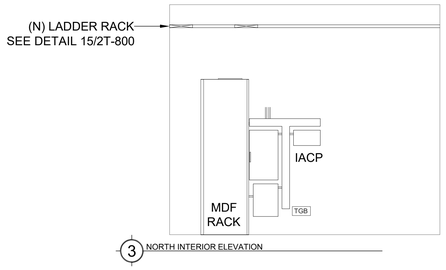
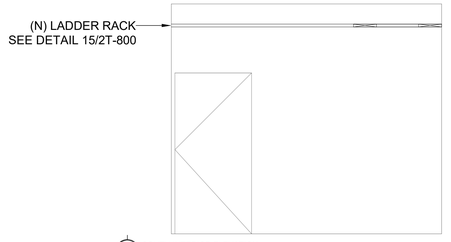
DATE PLOTTED: 2/16/2024 6:04:49 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2022/23119_MTDIUSD_MEADOW HOMES ES MOD_INC02_A22_rvt



3 NORTH INTERIOR ELEVATION



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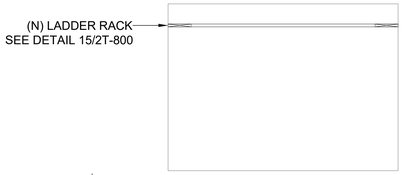

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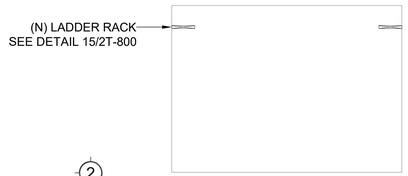
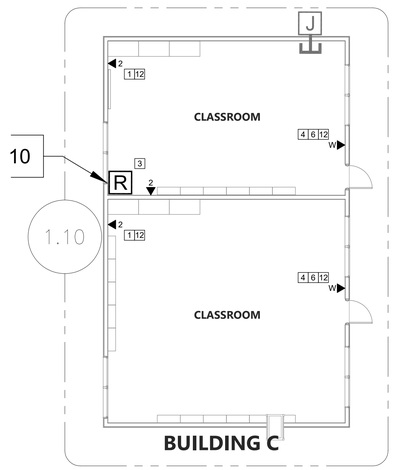


2 EAST INTERIOR ELEVATION

MDF 1.00 INTERIOR ELEVATIONS

SCALE: 3/8"=1'

0 2 4



TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING MU

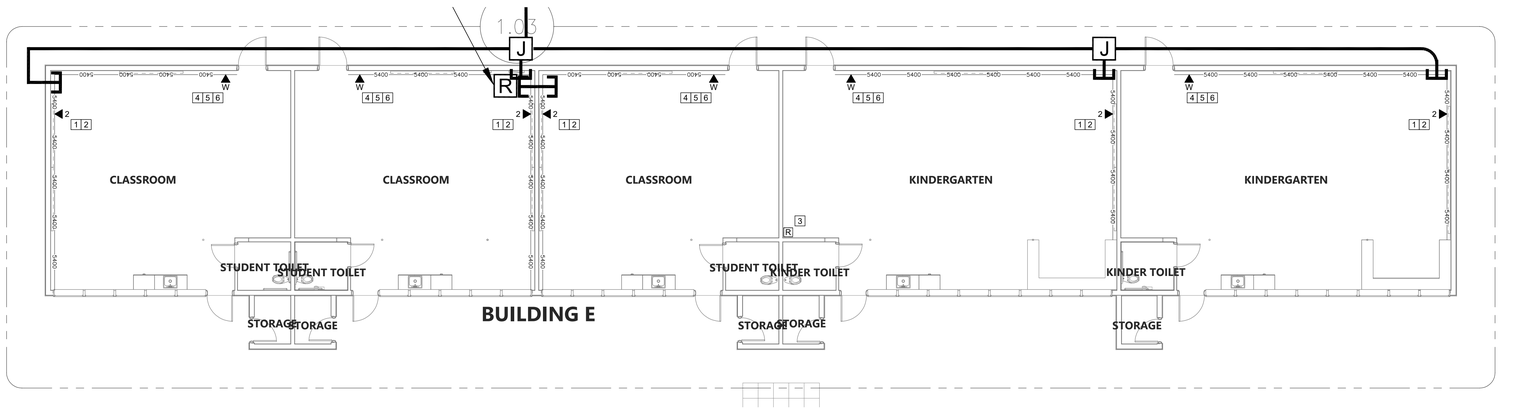
SCALE: 1/8"=1'

0 4 8 12 16

TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING C

SCALE: 1/8"=1'

0 4 8 12 16



TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING E

SCALE: 1/8"=1'

0 4 8 12 16

GENERAL NOTES:

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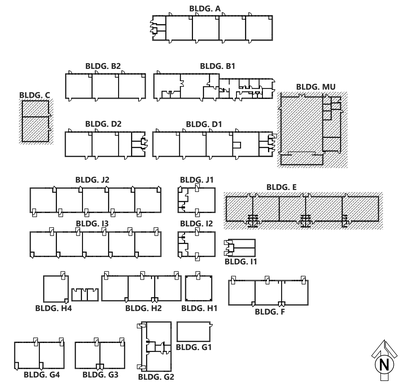
2. CONTRACTOR TO INSTALL AND MAKE OPERATIONAL ALL OWNER-FURNISHED ACTIVE EQUIPMENT AS NOTED IN THE PLANS AND SPECIFICATIONS.
3. ALL ACTIVE EQUIPMENT FURNISHED BY THE OWNER WILL BE PROGRAMMED BY THE OWNER.

SHEET NOTES:

1. PROVIDE (N) 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. PROVIDE (N) IDF ENCLOSURE. SEE SINGLE LINE FOR DETAILS.
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) FLUSH BACKBOX AND 1" CONDUIT FROM DEVICE LOCATION TO NEAREST DATA J-BOX.
8. PROVIDE (N) CAT6A DATA DROP AT (E) FACP PANEL.
9. PROVIDE (N) CAT6A DATA DROP AT (E) IACP PANEL.
10. PROVIDE (N) CAT6A DATA DROP AT (E) BMS PANEL.
11. PROVIDE (N) 4-PAIR COPPER FEEDER TO MDF.
12. PROVIDE (N) CUT IN BACKBOX AND FISH CABLE TO ACCESSIBLE CEILING.
13. PROVIDE (N) WIREMOLD VERTICAL DROP ALUMINUM POLE BETWEEN CEILING AT COUNTER/DESK LOCATION. COORDINATE EXACT PLACEMENT IN FIELD.
14. PROVIDE (N) 25 PAIR COPPER FEEDER BETWEEN MDF AND COPPER MPOE LOCATION ON SOUTH EXTERIOR WALL OF MP ROOM. VIA (N) BACKBONE PATHWAY. TERMINATE ON 66-BLOCK AT MDF AND AT PROVIDER DEMARC EQUIPMENT. SEE COPPER SINGLE LINE ON 2T-700.

KEY PLAN



AGENCY APPROVAL DSA# 01-121400

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PROFESSIONAL STAMP

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

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REVISIONS

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT

1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION
1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE FLOOR PLANS NEW

INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

SHEET NO.

2T-201

DATE: JULY 30, 2024

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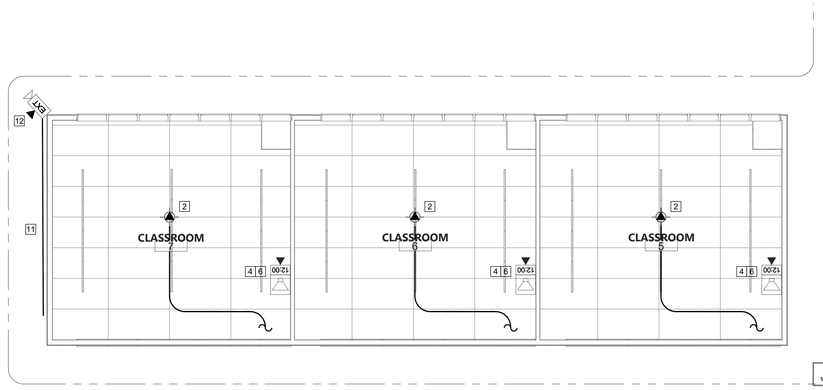
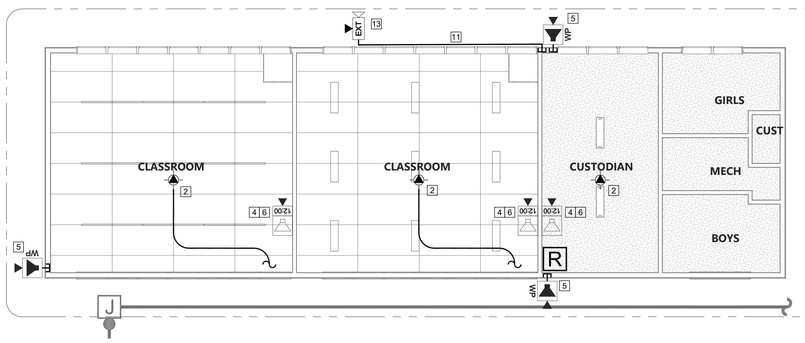
SHEET NOTES CONT'D:

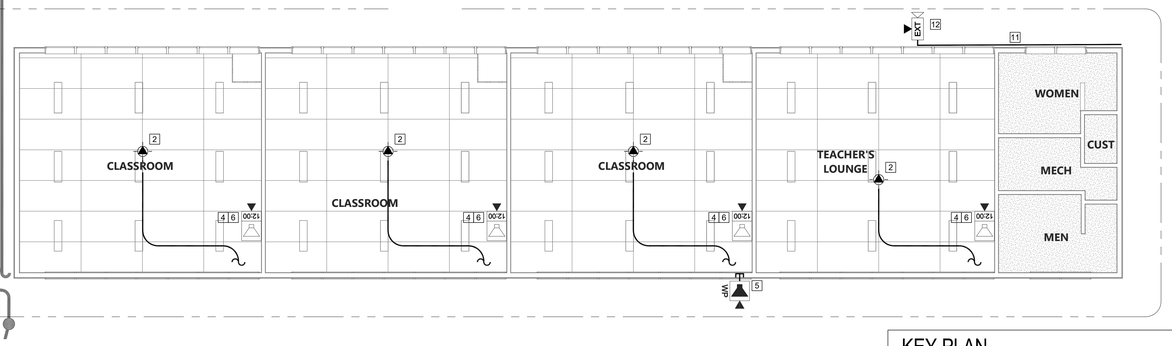
7. PROVIDE (N) 1 EA. CAT6A DATA DROP FOR IP SPEAKER. PROVIDE (N) SURFACE BACKBOX. TERMINATE DATA DROP IN BISCUIT BLOCK MOUNTED IN SURFACE BACKBOX. MOUNT OWNER-PROVIDED IP SPEAKER UNIT. PROVIDE (N) 1 EA. CAT6A PATCH CABLE.
8. PROVIDE (N) 1 EA. CAT6A DATA DROP FOR IP CLOCK. PROVIDE (N) SURFACE BACKBOX. TERMINATE DATA DROP IN BISCUIT BLOCK MOUNTED IN SURFACE BACKBOX. MOUNT OWNER-PROVIDED IP CLOCK UNIT. PROVIDE (N) 1 EA. CAT6A PATCH CABLE.
9. PROVIDE (N) CUT IN BOX BEHIND DEVICE LOCATION, AND FISH CABLE TO ACCESSIBLE CEILING.
10. PROVIDE (N) LADDER RACKING INCLUDING ALL MOUNTING, FITTINGS, AND TRANSITIONS FOR A COMPLETE CABLE MANAGEMENT SYSTEM BETWEEN THE CONDUIT PENETRATIONS AND THE MDF RACK.
11. PROVIDE (N) 3/4" CONDUIT.
12. REMOVE (E) CAMERA PRIOR TO EXTERIOR PAINTING. PROVIDE (N) CAT6A DATA DROP V/A (N) PATHWAY, (N) 2-GANG SURFACE BOX, AND (N) FLEX CONDUIT. SEE DETAIL 9/2T-800. RE-MOUNT CAMERA AND MAKE WATERPROOF. RE-AIM CAMERA IN PRESENCE OF DISTRICT REPRESENTATIVE.
13. PROVIDE (N) CAT6A DATA DROP AND (N) ARTICULATING MOUNT WITH PENDANT KIT FOR OWNER-PROVIDED PANORAMIC NETWORK CAMERA. CONTRACTOR TO CONFIRM WITH DISTRICT REPRESENTATIVE THAT CAMERA VIEWS ARE NOT OBSTRUCTED PRIOR TO INSTALLATION.
14. PROVIDE (N) 2" CONDUIT.

SHEET NOTES:

1. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT ACCESSIBLE CEILING. INSTALL OWNER-PROVIDED AP. SEE DETAIL 6/2T801.
2. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT HARD LID CEILING. PROVIDE (N) EMT CONDUIT FROM NEAREST DATA J-BOX. SEE DETAIL 13/2T801.
3. PROVIDE (N) 2 EA. CAT6A DATA DROP V/A (N) PATHWAY AND PENETRATION. MOUNT OWNER-PROVIDED WIRELESS AP AND MAKE WATERPROOF. SEE DETAIL 14/2T801.
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) CLOCK. ROUTE (N) CABLING TO NEAREST DATA J-BOX VIA (E) CONDUIT STUB TO CEILING AT CLOCK LOCATION.







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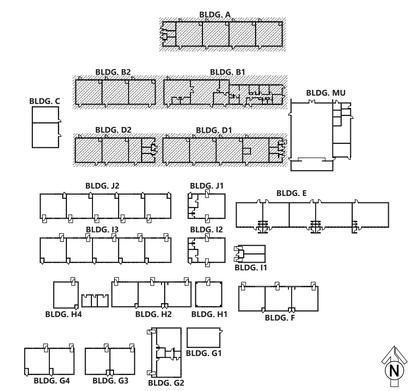
BUILDINGS - A, B1, B2, D1 AND D2

SCALE: 1/8"=1'

0 4 8 12 16

KEY PLAN



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SHEET TITLE

TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW

INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

SHEET NO.

2T-300

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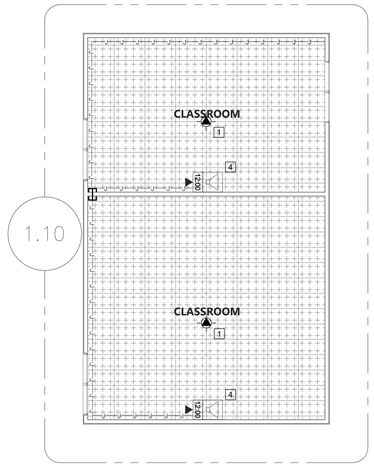
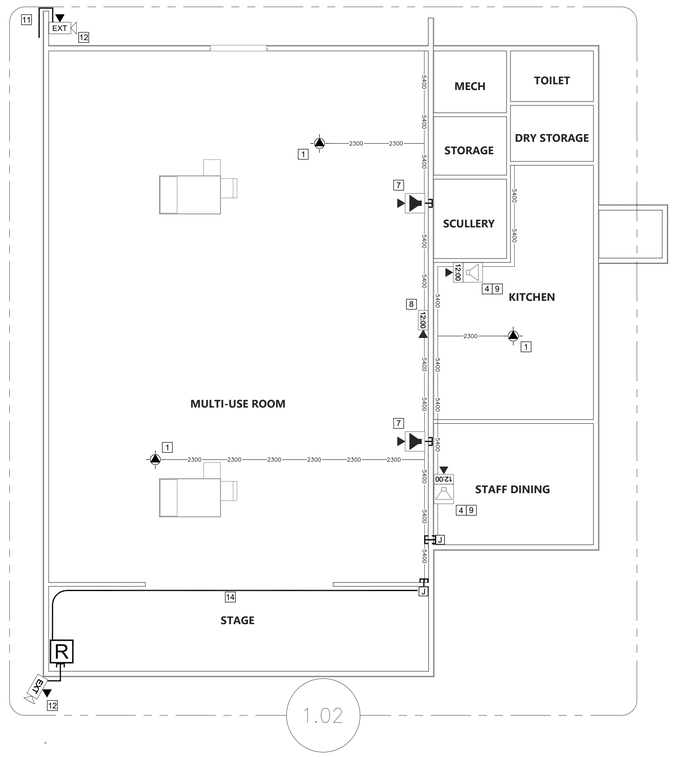




BUILDING C

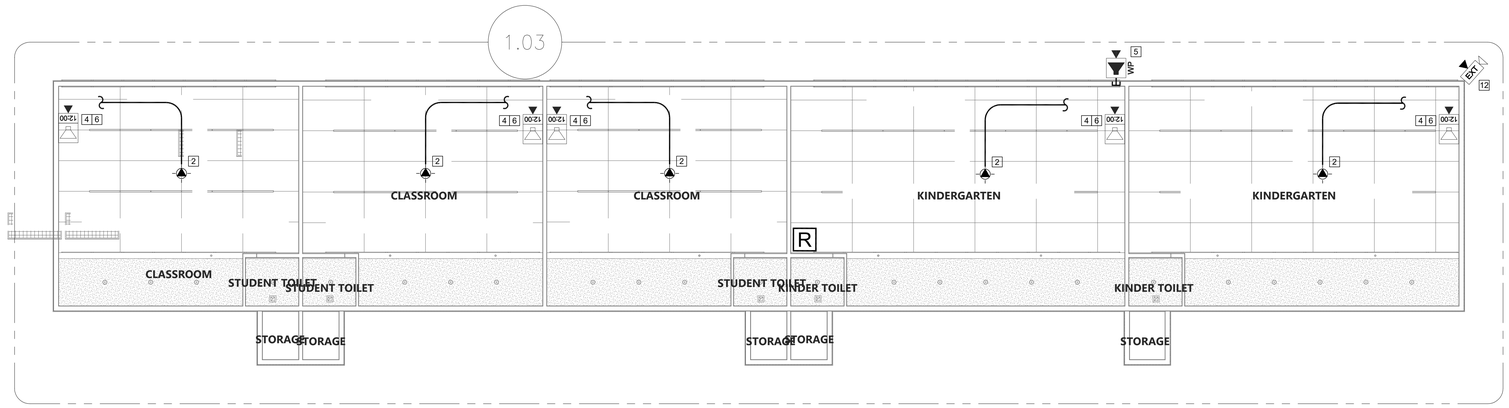
SCALE: 1/8"=1'

0 4 8 12 16

BUILDING MU

SCALE: 1/8"=1'

0 4 8 12 16



BUILDING E

SCALE: 1/8"=1'

0 4 8 12 16

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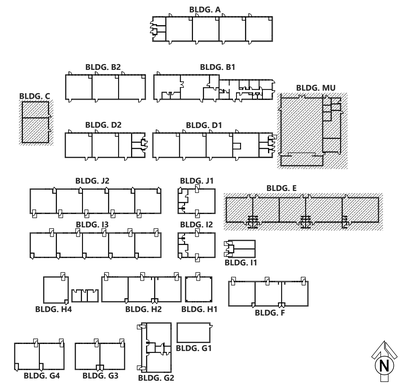
KEY PLAN



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SHEET TITLE

TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW

INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

SHEET NO.

2T-301

DATE: JULY 30, 2024

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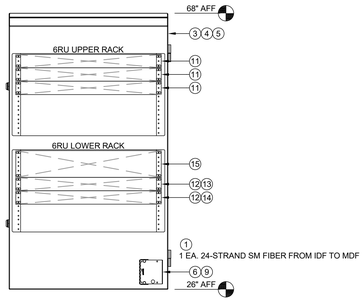
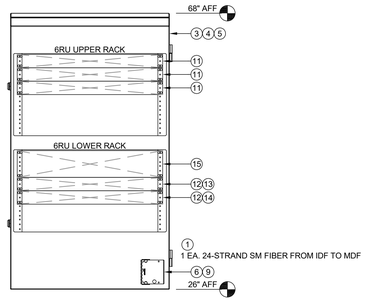
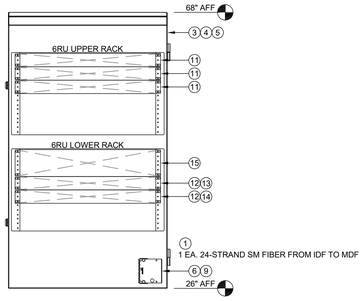


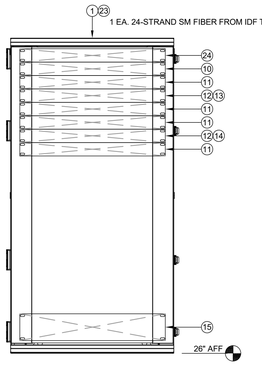
5 IDF 1.10 - BUILDING C CLASSROOM



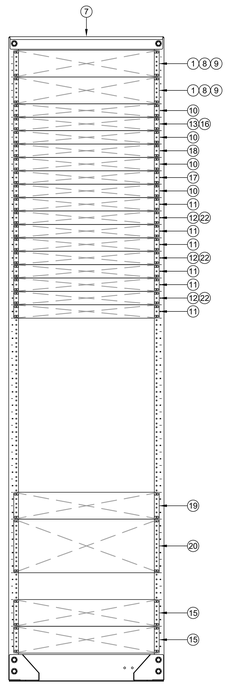
4 IDF 1.03 - BUILDING E CLASSROOM



3 IDF 1.02 - BUILDING MU STAGE



2 IDF 1.01 - BUILDING D2 CUSTODIAN



1 MDF 1.00 - BUILDING B1 ROOM MDF

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. THE PROJECT INVOLVES A COMPLETE REWORK AND REPLACEMENT OF THE (E) MDF IN MULTIPLE PHASES.
2. THE (E) MDF MUST BE PROTECTED AND KEPT OPERATIONAL UNTIL THE (N) MDF CAN BE BROUGHT ONLINE.
3. 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 OPERATIONS WILL NOT BE AFFECTED.
4. THE (E) MDF SERVES FIBER TO PARTS OF THE SITE NOT INCLUDED IN THIS INCREMENT. THESE DATA CIRCUITS WILL BE REWORKED AND RETERMINATED AT THE (N) MDF RACK. THE FIBER SHALL BE RECERTIFIED AFTER RETERMINATION. ANY FIBER THAT DOES NOT PASS CERTIFICATION SHALL BE REPLACED AT NO ADDITONAL COST TO DISTRICT.
5. PROVIDE 2 EA. (N) 120V/20A DEDICATED CIRCUITS IN QUAD BOX AT TOP OF RACK, AND 2 EA. (N) 208V/20A DEDICATED CIRCUIT (L6-20R RECEPTACLE) AT TOP OF RACK (BY ELEC.)
6. PROVIDE ALL (N) EQUIPMENT CALLED FOR IN THE ELEVATION.
7. INSTALL ALL OWNER-FURNISHED EQUIPMENT CALLED FOR IN THE ELEVATION.
8. RELOCATE AND REINSTALL ALL (E) EQUIPMENT NOTED FOR REUSE IN THE ELEVATION.
9. ROUTE POWER FOR ALL EQUIPMENT SO THAT IT IS EVENLY DISTRIBUTED BETWEEN AND FULLY PROTECTED BY THE UNINTERRUPTIBLE POWER SUPPLIES.
10. REMOVE ALL (E) EQUIPMENT NOT NOTED FOR REUSE AND DELIVER TO DISTRICT WAREHOUSE IN GOOD CONDITION.
11. PROVIDE (N) 6" SLIMLINE CAT6A PATCH CABLES FOR ALL (N) DATA DROPS.
12. 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	NOT USED	NOT USED	NOT USED
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	FEABRU	N/A
7	TELECOMMUNICATIONS RACK, 4 POST 45RU	PANDUIT	R4P42CN	N/A
	CONCRETE FLOOR ANCHOR KIT		RFAKIT	N/A
	VERTICAL CABLE MANAGER		PR2VFD06	N/A
8	FIBER TRAY LIU, 2U	PANDUIT	FMT2	N/A
	FIBER PATCH PANEL, 2U		CFAPPBL2	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	JL479A	OFCI
17	AP CONTROLLER	ARUBA	EXISTING	RELOCATE FROM (E) MDF RACK
18	SERVICE PROVIDER EQUIPMENT	CIENA	EXISTING	RELOCATE FROM (E) MDF RACK
19	2U NVR SERVER	EXISTING	EXISTING	RELOCATE FROM (E) MDF RACK
20	4U NVR SERVER	EXISTING	EXISTING	RELOCATE FROM (E) MDF RACK
21	1U RACK MOUNT MONITOR	TRIPP LITE	B021-000-19-HD2	N/A
22	DAC CABLE	ARUBA	J9281D	OFCI
23	TELECOMMUNICATIONS RACK, WALL, 26U	PANDUIT	PZWMC2630P	N/A
	FAN KIT FOR WALL RACK		PZCFK	N/A
	GROUND KIT FOR WALL RACK		PZWMCGK	N/A
24	FIBER TRAY LIU, 1U	PANDUIT	FMT1	N/A
	FIBER PATCH PANEL, 1U		CFAPPBL1	N/A

AGENCY APPROVAL DSA# 01-121400

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT

1936 Carlotta Drive
Concord, California 94519

MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE SINGLE LINES

INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

SHEET NO.

2T-700

DATE: JULY 30, 2024

100% CONSTRUCTION DOCUMENTS

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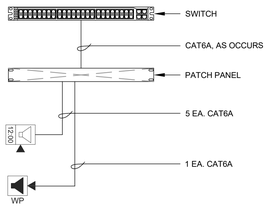
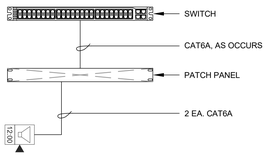
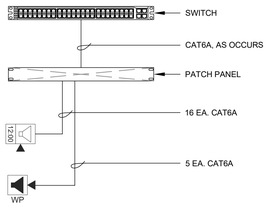


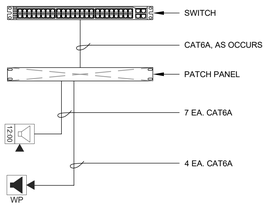
4 IDF 1.03 - BUILDING E CLASSROOM
SCALE: NONE



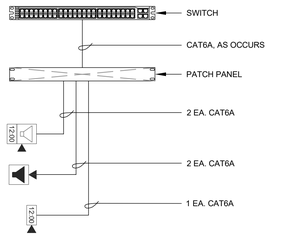
5 IDF 1.10 - BUILDING C CLASSROOM
SCALE: NONE



1 MDF 1.00 - BUILDING B1
SCALE: NONE



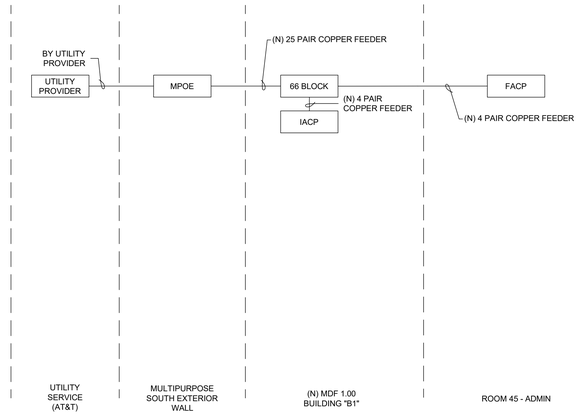
2 IDF 1.01 - BUILDING D2 CUSTODIAN
SCALE: NONE



3 IDF 1.02 - BUILDING MU STAGE
SCALE: NONE

3 INTERCOM NETWORK SINGLE LINE DIAGRAM
SCALE: NONE

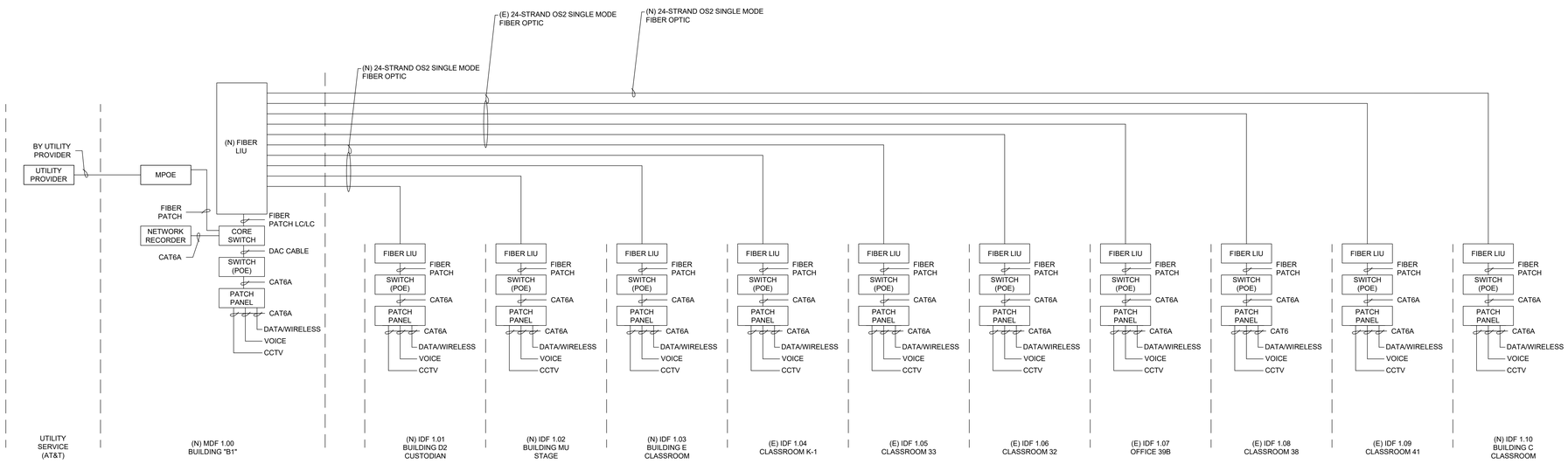
EQUIPMENT INTERCOM SCHEDULE: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
SYMBOL	DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
12.00	IP CLOCK/SPEAKER COMBO	ATLAS	IP-SDMF	OFCI
	SURFACE BACKBOX		IP-SEST-SD	N/A
WP	IP SPEAKER (EXTERIOR)	ATLAS	IP-HVP	OFCI
	SURFACE BACKBOX		IP-SEST-HVP	N/A
	IP SPEAKER	ATLAS	IP-SM	OFCI
	SURFACE BACKBOX		IP-SEST-SD	N/A



NOTE: ANALOG DIALTONE MUST BE MAINTAINED TO THE FACP AND IACP THROUGHOUT THE CONSTRUCTION PERIOD. ANY DOWNTIME MUST BE COORDINATED WITH AND APPROVED BY THE DISTRICT REPRESENTATIVE. PROVIDE A TEMPORARY COPPER FEEDER TO EACH DEVICE, AS REQ'D, UNTIL PERMANENT CABLING CAN BE INSTALLED.

PRIOR TO DEMO, TRACE AND RECORD WHICH MPOE COPPER PAIRS ARE BEING UTILIZED FOR EACH DEVICE. ANY TEMPORARY FEEDERS AND THE FINAL PERMANENT CABLING SHALL BE RECONNECTED TO THESE SAME EXISTING IN-USE COPPER PAIRS TO ENSURE CONTINUITY OF SERVICE.

2 COPPER VOICE SINGLE LINE DIAGRAM
SCALE: NONE



1 DATA/VOICE/CCTV NETWORK SINGLE LINE DIAGRAM
SCALE: NONE

AGENCY APPROVAL DSA# 01-121400

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SHEET TITLE
TECHNOLOGY INFRASTRUCTURE CCTV VIEWS
INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

SHEET NO.
2T-701
DATE: JULY 30, 2024

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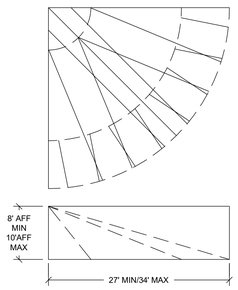
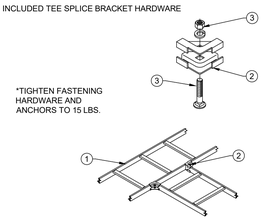


20 INTRUSION DETECTOR COVERAGE DETAIL
SCALE: NONE

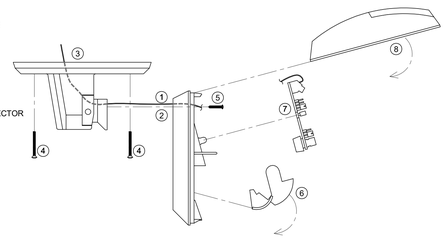
1. (N) 18" LADDER RACK ASSEMBLY
2. MOUNTING BRACKET FOR 90 DEGREE ATTACHMENT
3. MFR. INCLUDED TEE SPLICE BRACKET HARDWARE



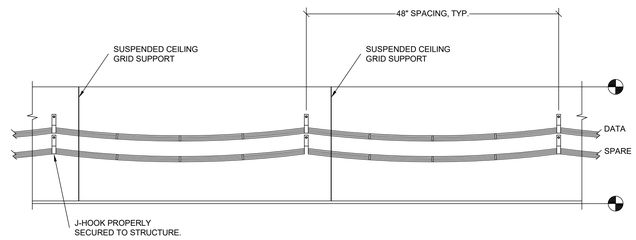
15 HORIZONTAL TEE SPLICE KIT DETAIL
SCALE: NONE

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

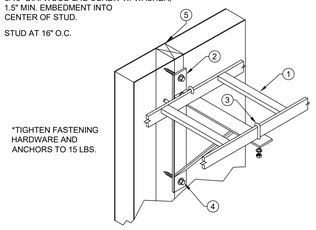


10 INTRUSION DETECTION SENSOR INSTALLATION ADJUSTABLE CEILING MOUNTING DETAIL
SCALE: NONE



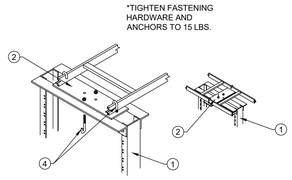
3 J-HOOK PATHWAY ABOVE CEILING DETAIL
SCALE: NONE

1. CHATSWORTH 11275-712 LADDER RACK ASSEMBLY, PER DRAWINGS.
2. MOUNTING BRACKET. 60" OC MAXIMUM SPACING BETWEEN BRACKETS.
3. MFR. INCLUDED MOUNTING BRACKET J-HOOK HARDWARE
4. 3/16" DIA. WOOD LAG SCREW W/ WASHER, 1.5" MIN. EMBEDMENT INTO CENTER OF STUD.
5. STUD AT 16" O.C.

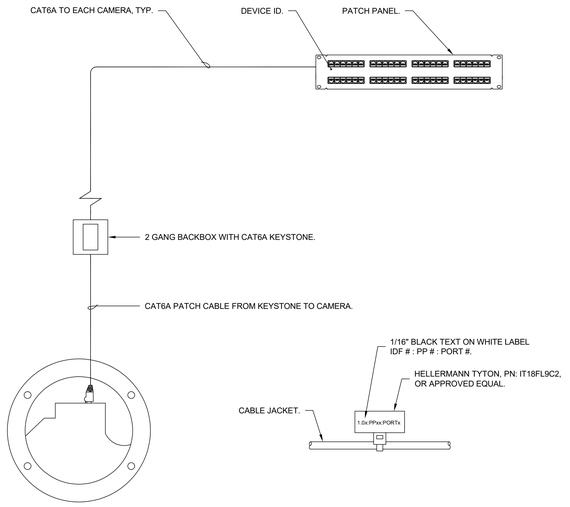


19 RUNWAY SIDE WALL SUPPORT DETAIL
SCALE: NONE

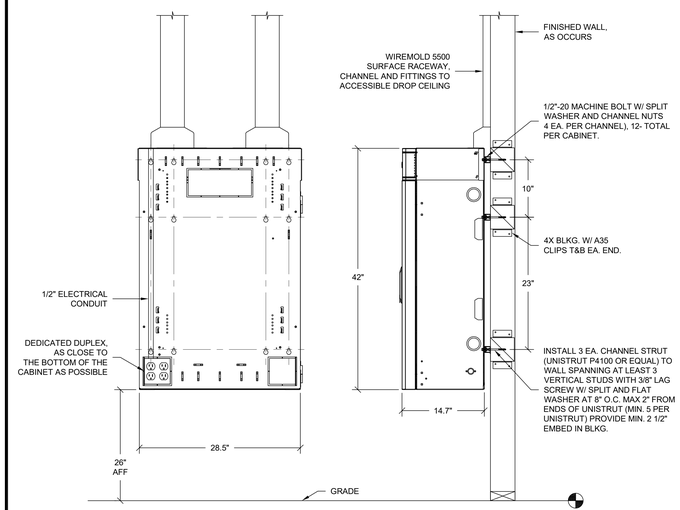
1. DATA RACK ASSEMBLIES
2. TOP PLATE MOUNTING BRACKET
3. MFR. INCLUDED TOP PLATE MOUNTING BRACKET, J-HOOK HARDWARE.



14 RUNWAY SUPPORT KIT FOR RACK DETAIL
SCALE: NONE

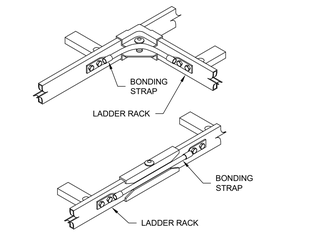


9 CCTV NETWORK SEGMENT DETAIL
SCALE: NONE

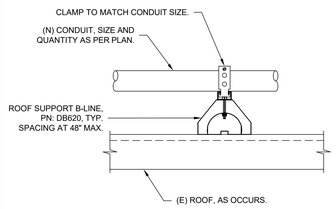


NOTES:
1. 3RU TOTAL LOAD CAPACITY = 200 LBS.
2. 6RU TOTAL LOAD CAPACITY = 300 LBS.

2 TEL ECOMMUNICATIONS WALL CABINET, 3RU + 6RU
SCALE: NONE



18 LADDER RACK BONDING DETAIL
SCALE: NONE



13 CONDUIT ON ROOF DETAIL
SCALE: NONE



8 MAIN GROUND BAR DETAIL
SCALE: NONE

6 SURFACE MOUNTED CLOCK/SPEAKER COMBO DETAIL
SCALE: NONE

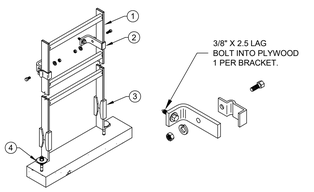


5 SURFACE MOUNTED INTERIOR INTERCOM SPEAKER DETAIL
SCALE: NONE

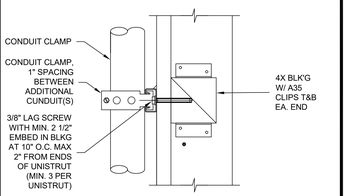
MAX LOADING: 1500LBS

1 FLOOR MOUNTED 4-POST RACK DETAIL
SCALE: NONE

1. CABLE LADDER PER DRAWINGS.
2. VERTICAL WALL BRACKETS, CHATSWORTH PN 10608-001 OR EQUAL
3. VERT. LADDER FLOOR BRACKET, CHATSWORTH PN 11309-000 OR EQUAL
4. 3/8" DIA. HILTI KB-TZ2 316 WEDGE ANCHOR, 2" EMBED (2-TOTAL)



17 VERTICAL LADDER SUPPORT DETAIL
SCALE: NONE



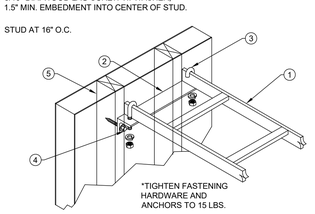
SCHEDULE 1.1

WALL TYPE	ANCHOR/FASTERNER	MIN. EMBED
WOOD	3/8" HEX LAG SCREW	2"
LIGHT GAUGE	3/8"X3" STS	N/A
CMU/MASONRY *	3/8"	2-1/2"

*HILTI KB TZ EXPANSION ANCHOR, LENGTH AS REQUIRED FOR MINIMUM EMBEDMENT

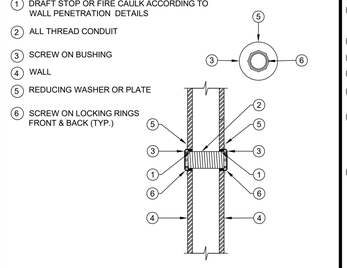
12 CONDUIT SUPPORT DETAIL - VERTICAL
SCALE: NONE

1. LADDER RACK ASSEMBLY PER DRAWINGS.
2. MOUNTING BRACKET FOR WALL
3. MFR. INCLUDED MOUNTING BRACKET J-HOOK HARDWARE
4. 3/16" DIA. WOOD LAG SCREW W/ WASHER, 1.5" MIN. EMBEDMENT INTO CENTER OF STUD.
5. STUD AT 16" O.C.



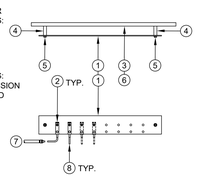
16 RUNWAY END WALL SUPPORT DETAIL
SCALE: NONE

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.)

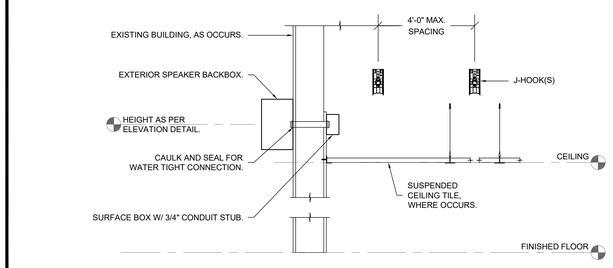


11 CONDUIT SLEEVE PENETRATION DETAIL
SCALE: NONE

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



7 GROUND BUS BAR DETAIL
SCALE: NONE



4 EXTERIOR INTERCOM SPEAKER MOUNTING DETAIL
SCALE: NONE

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PROJECT OWNER & TITLE

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SHEET TITLE

TECHNOLOGY INFRASTRUCTURE DETAILS

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2T-800

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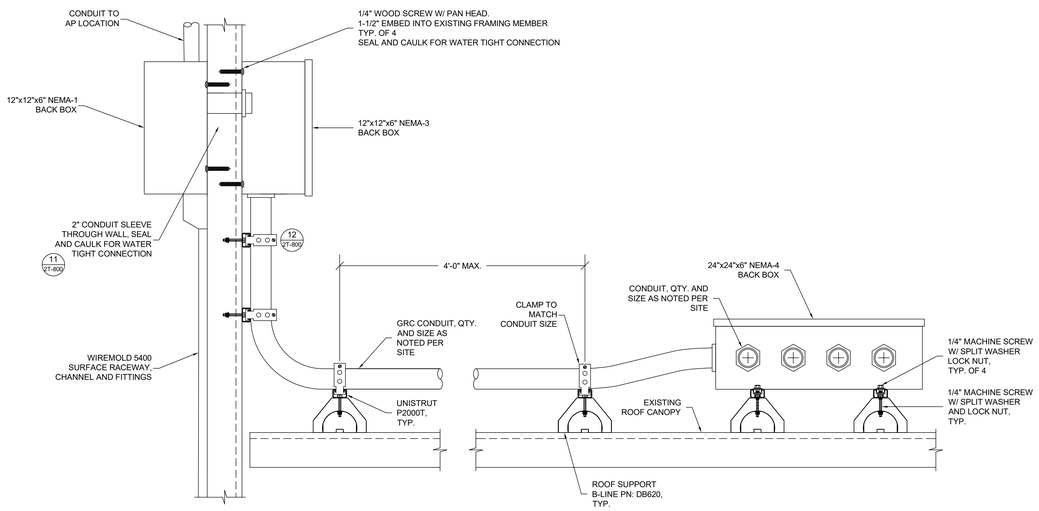
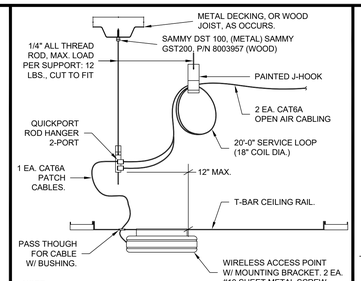
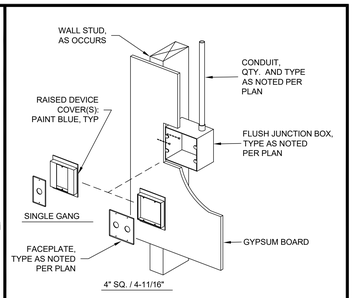


8 EXTERIOR CANOPY CONDUIT AND BACK BOX MOUNTING DETAIL

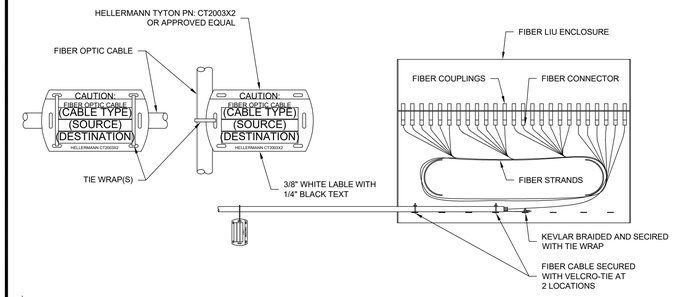


NOTE:
1) TOTAL ASSEMBLY WEIGHT UNDER 20 LBS.

5 WIRELESS ACCESS POINT ON METAL T-BAR CEILING MOUNTING DETAIL
SCALE: NONE



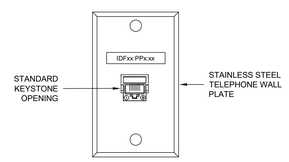
4 JUNCTION BOX, WALL MOUNT DETAIL
SCALE: NONE



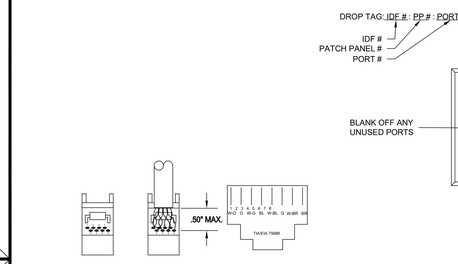
3 FIBER LIU DETAIL W/ FIBER OPTIC CABLE LABELING (ABV./BELOW GROUND)
SCALE: NONE

NOT USED

NOT USED

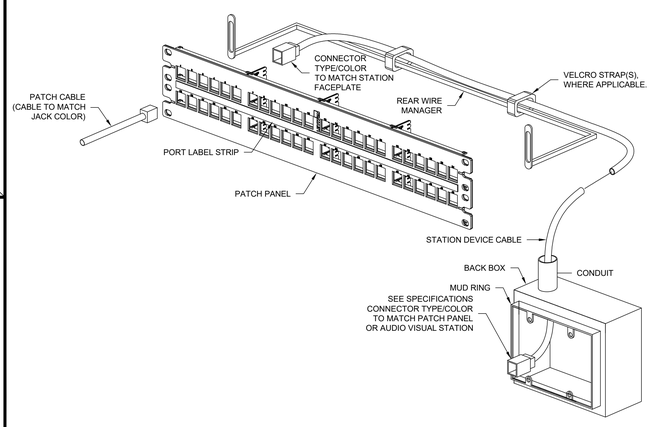


9 TELEPHONE WALL PLATE DETAIL
SCALE: NONE

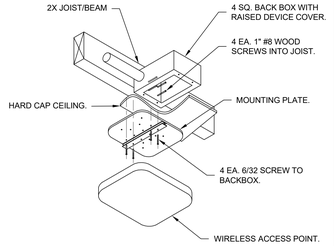


DATA CABLE LABELING DETAIL - AT PATCH PANEL / END POINT

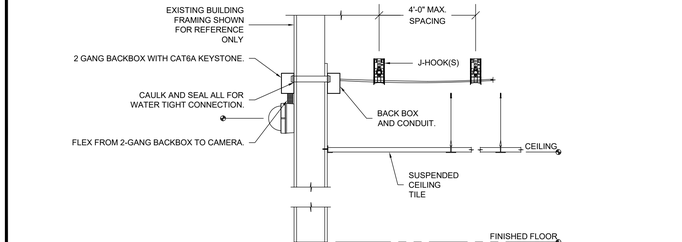
DATA/ VOICE BACKBOX AND FACE PLATE DETAIL



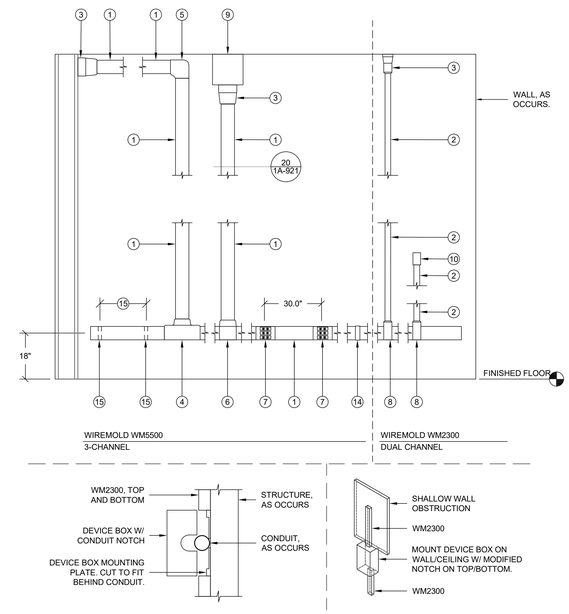
7 PATCH PANEL CONNECTION DETAIL - 2RU
SCALE: NONE



6 WAP MOUNTING AT HARD CAP CEILING DETAIL
SCALE: NONE



2 CCTV EXTERIOR WALL MOUNTING 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 (FOR INTERNAL RETENTION OF WIRES WITHIN THE RACEWAY)	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.

2) INSTALL SURFACE RACEWAY AND FITTINGS PER MFG. DIRECTIONS WITH #8 PAN HEAD SCREWS MAX 18" O.C. IN EACH CHANNEL, AS OCCURS. PROVIDE WALL ANCHORS, AS REQ'D. DO NOT UTILIZE ADHESIVE STRIPS.

1 TYPICAL SURFACE MOUNTED RACEWAY W/ ASSEMBLY COMPONENTS DETAIL
SCALE: NONE

AGENCY APPROVAL DSA# 01-121400

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TECHNOLOGY INFRASTRUCTURE DETAILS
INCREMENT: INC.2

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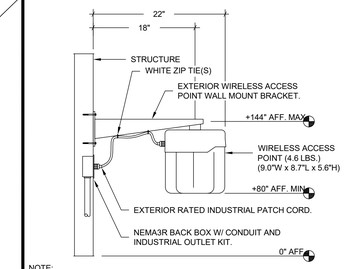
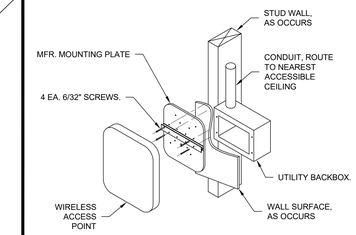


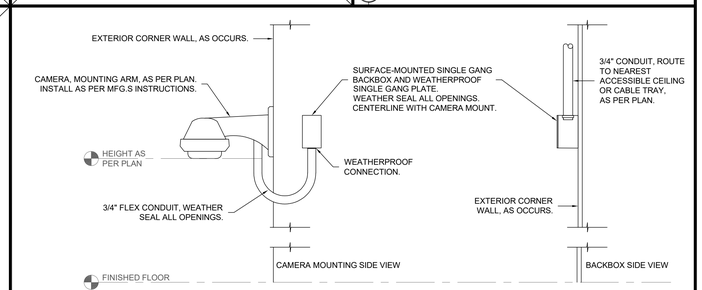
NOTE:
1) ASSEMBLY DOES NOT EXCEED 20 LBS.

4 EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT DETAIL
SCALE: NONE



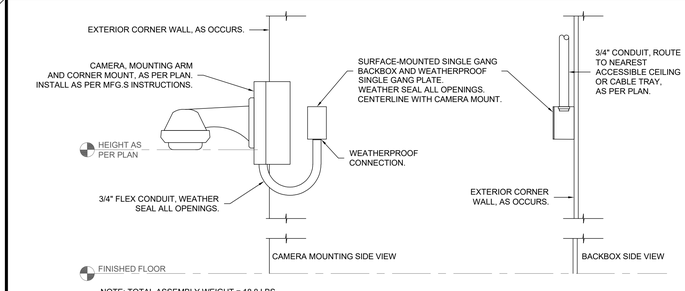
NOTE:
1) MOUNT SINGLE GANG BACK BOX TO SUPPORT MEMBER W/ 2 EA. #12 SHEET METAL SCREWS.
2) ASSEMBLY DOES NOT EXCEED 20 LBS.

3 WALL MOUNTED WIRELESS ACCESS POINT DETAIL
SCALE: NONE



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

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Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814)
and ANSI/ULC263 (ASTM E119)

CLIV.R14288
Wall-opening Protective Materials

SpecSeal Power Shield Box Inserts, for use with flush device UL Listed Metallic Outlet Boxes without internal clamps installed with steel mud rings in framed wall assemblies. When protective material is used in outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). The max outlet box dimensions, hourly rating, type of stud, use of stud cavity insulation and type of faceplate are tabulated below. Additional general construction features shall comply as follows:

A. Studs - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).

B. Stud Cavity Insulation - Where indicated in the table below, stud cavity insulation to consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m3) or mineral fiber (min 4 pcf or 64 kg/m3). Unless indicated as required, stud cavity insulation is optional.

C. Wall Design - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400 or V400 Series Wall and Partition Design in the Fire Resistance Directory.

D. Pad Dimensions - The minimum dimensions of the insert pad are shown in the table below. Pads may be cut to achieve dimensions shown in table and partial insert pads may be utilized.

Product	Max Outlet Box Size, in. (mm)	Outlet Box Type	Outlet Box Mfr	Pad Size, in. (mm)	Rating, hr	Stud	Cavity Insulation	Face Plate Type	Putty Ball
EP 23	2 x 3 x 2-1/8 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	2	Steel	No	Steel	-
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	2	Steel	Yes	Plastic	-
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	2	Steel	No	Steel	-
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	2	Steel	Yes	Plastic	-
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	2	Steel	No	Steel	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	2	Steel	Yes	Plastic	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-11/16 x 4-11/16 x 2-1/8 (119 x 119 x 54) deep	-	-	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-1/2 x 5 x 2-3/8 (114 x 127 x 60) deep	-	-	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	5-1/2 x 14 x 2-1/2 (114 x 356 x 64) deep	-	-	4-1/2 x 13-3/4 (114 x 349)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-

SpecSeal Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. When nonmetallic box is used with Type NM cable, a 3/16 in. (5 mm) thickness of putty shall be formed around the cable at its connection to the box and extending at least 1 in. (25 mm). The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are tabulated below. Additional general construction features shall comply as follows:

A. Studs - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).

B. Stud Cavity Insulation - Unless indicated as required, stud cavity insulation is optional and may consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m3) or mineral fiber (min 4 pcf or 64 kg/m3).

C. Wall Design - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400 or V400 Series Wall and Partition Design in the Fire Resistance Directory.

D. Metallic Outlet Boxes - Except as indicated in the table below, when steel outlet boxes are used and the boxes are interconnected by means of electrical metallic tube or conduit, a ball of putty is to be installed to plug the open end of each electrical metallic tube (EMT) or conduit within the outlet box. When MC cable is used and/or when the outlet boxes are not interconnected, the ball of putty is not required.

E. Nonmetallic Outlet Boxes - The box manufacturer is indicated in the table below. Boxes shall bear a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory.

Model	Max Outlet Box in. (mm)	Outlet Box Type	Outlet Box Mfr	Pad Size in. (mm)	Rating, hr	Stud	Cavity Insulation	Face Plate Type	Putty Ball
-	4 x 4 x 2-1/8 (102 x 102 x 54) deep	Steel	N.A.	-	1	Steel or Wood	-	Steel	No
-	4 x 4 x 2-1/8 (102 x 102 x 54) deep	Steel	N.A.	-	1	Steel or Wood	-	Plastic	Yes
-	4-11/16 x 4-11/16 x 2-1/8 (119 x 119 x 54) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	4-1/2 x 5 x 2-3/8 (114 x 127 x 60) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	4-1/2 x 14 x 2-1/2 (114 x 127 x 60) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Polyvinyl Chloride	Lamson & Sessions or Carlon	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Phenolic	Allied Moulded Prods	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Polycarbonate	Thomas & Betts	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Phenolic	Thomas & Betts	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	2-3/4 x 3-3/4 x 2-3/8 (57 x 95 x 70) deep	Polyvinyl Chloride	Pass & Seymour	-	1 or 2	Wood	-	Plastic or Steel	N.A.

SpecSeal Putty Pads , for use with maximum 4 by 4 by 2-1/8 in. (102 by 102 by 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 5-1/2 in. (140 mm) wide wood or steel studs and with stud cavities filled with fiberglass (nom 0.5 pcf or 8 kg/m3) or mineral fiber (nom 4 pcf or 64 kg/m3) insulation. When protective material is used on outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the boxes on opposite sides of the wall are not interconnected with conduit or, when interconnected, the open end of the conduit within the outlet box is filled with a ball of putty. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box.

SpecSeal EP23, EP24 and EP44 Power Shield Box Inserts and SpecSeal Putty Pads, for use with maximum 4 by 4 by 1-1/2 or 2-1/8 in. (102 by 102 by 38 or 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 3-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

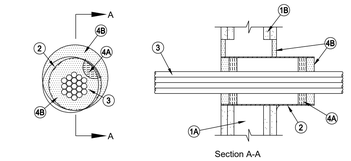
SpecSeal Putty Pads, for use with max 5 by 5 by 2 7/8 in. (127 by 127 by 73 mm) deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. (92 mm) wide wood or steel studs and constructed as specified in the individual U300, U400, or V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc. Moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud unless otherwise noted) including nailing tabs and to completely seal against the stud within the stud cavity. Multiple moldable putty pads may be installed on an outlet box to attain the required minimum thickness of putty material. Additional putty material used to seal around each conduit and/or cable fitting on the exterior of each box. A min 3/16 in. (4.8 mm) thickness of putty material is required on the exterior surfaces of flush device boxes in 1 and 2 hr fire rated Wall and Partition Designs. When the moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the outlet boxes are not installed back to back, except as noted.

SpecSeal EP55 Power Shield Box Inserts, for use with max 5 by 5 by 2 7/8 in. (127 by 127 by 73 mm) deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. (92 mm) wide wood or steel studs and constructed as specified in the individual U300, U400, or V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc. Power Shield Box Insert is to be applied to the back surface of the box and may be slit to accommodate communications-circuit accessories. When the Power Shield Box Insert is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the outlet boxes are not installed back to back, except as noted.

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

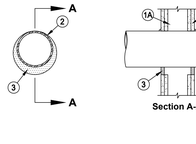
SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal Putty

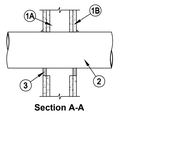
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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

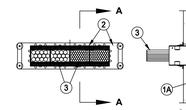
1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   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.

Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115

System No. W-J-3098

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 2 and 4 Hr (See Item 3)	F Ratings - 2 and 4 Hr (See Item 3)
T Ratings - 3/4 and 1 Hr (See Item 3)	FT Ratings - 3/4 and 1 Hr (See Item 3)
L Rating At Ambient - Less Than 1, 1.3, 4 or 7 CFM/Device Module (See Item 3)	FH Ratings - 2 and 4 Hr (See Item 3)
L Rating At 400 F - Less Than 1, 2 or 3 CFM/Device Module (See Item 3)	FTH Ratings - 3/4 and 1 Hr (See Item 3)
	L Rating At Ambient - Less Than 1, 1.3, 4 or 7 CFM/Device Module (See Item 3)
	L Rating At 400 F - Less Than 1, 2 or 3 CFM/Device Module (See Item 3)



Section A-A

1. Wall Assembly - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Opening to be max 1/4 in. (6 mm) larger than width and height dimensions of firestop device(s).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Firestop Device* - One, two, three, four or seven firestop device modules ganged together. Each firestop device module consists of a 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. The space between the firestop device module(s) and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 1/8 in. (3.2 mm). In round openings, the space between the firestop device and the periphery of the opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Firestop device module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel set screws provided with device. Each firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly. As an option, devices may be cast or grouted into wall assembly. When device is cast or grouted in place, the steel wall plates are optional.
   SPECIFIED TECHNOLOGIES INC - EZ PATH Series 33 Fire Rated Pathway

2A. Firestop Device* - Extension Module - (Optional, Not Shown) - Module attached to ends of 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long firestop device (Item 3) to increase its length to facilitate installation in thicker walls. Each module consists of a 3 by 3 by 6 in. (76 by 76 by 152 mm) long galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.
   SPECIFIED TECHNOLOGIES INC - EZ PATH Extension

3. Cables - Cables may represent a 0 to 100 percent visual fill within the loading area for each firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:
   A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 350 kcmil single copper conductor power cable with XLPE jacket and insulation.
   C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   D. Max 3/C No. 10 AWG metal clad or armored cable with steel or aluminum jacket.
   E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
   F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation.
   G. Max RG/U coaxial cable with fluorinated ethylene insulation and jacketing.
   H. Optical fiber cable with PVC or polyethylene (PE) jacket and insulation and having a max diam of 5/8 in. (16 mm).
   When Item 3A, 3B, 3C, 3D or 3E is used, the F and FH Ratings are 2 hr and the T, FT and FTH Ratings are 3/4 hr. When max 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G or 3H is used, the F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 1 hr.
   The L Rating for each empty firestop device module is less than 1 cfm at ambient and at 400F. When Item 3A is used, the L Rating for each firestop device module with 100 percent visual fill is 4 cfm at ambient and 3 cfm at 400F. When Item 3F is used, the L Rating for each firestop device module with 100 percent visual fill is 1.3 cfm at ambient and less than 1 cfm at 400F When Item 3G or 3H is used, the L Rating for each firestop device module with 100 percent visual fill is 7 cfm at ambient and 2 cfm at 400F.
   * 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# 01-121400

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT

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MEADOW HOMES ES MODERNIZATION

1371 Detroit Ave
Concord, CA 94520

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE DETAILS

INCREMENT: INC.2

DRAWN BY: CS/RW/JG JOB NUMBER: 23119.01

SHEET NO.

2T-803

DATE: JULY 30, 2024

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