MT. DIABLO UNIFIED SCHOOL DISTRICT
Purchasing Department
2326 Bisso Lane, Concord, CA 94520
(925) 825-7440, ext. 3740
(925) 687-5044 fax

ADDENDUM NO.: ONE (Rio Vista Elementary)

DATE: April 16, 2024

PROJECT: BID #1940 Modernization of Three Elementary School Campuses, Phase 1

BID DUE DATE: 4/29/24 at 10:00 a.m.

NOTICE TO ALL CONTRACTORS SUBMITTING BIDs FOR THIS WORK AND TO ALL PLAN HOLDERS:

You are hereby notified of the following changes, clarifications or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and subsequent Addenda. This Addendum shall supersede the original Contract Documents, and previous Addenda wherein it contradicts the same and shall take precedence over anything to the contrary therein. All other conditions remain unchanged. It is the responsibility of the Contractor to notify all sub-contractors from who he accepts bids for all changes in the drawings and specifications covering this project.
Receipt of this addendum shall be acknowledged by inserting the addendum number and its date on the BID form.

CONFORMANCE WITH CONTRACT DOCUMENTS, PROJECT MANUAL DRAWINGS AND SPECIFICATIONS:

All addenda work shall be in strict conformance with the Contract Documents, Project Manual, Drawings and Specifications as they pertain to work of a similar nature.

REVISIONS/CLARIFICATIONS TO THE RFP DOCUMENTS AND SPECIFICATIONS

****SEE ATTACHMENT FOR QUESTIONS AND RESPONSES****

Elizabeth McClanahan
Director of Purchasing and Warehouse

END OF ADDENDUM

DOCUMENT 00 91 13

ADDENDA

NOTICE TO ALL BIDDERS: THE FOLLOWING MODIFICATIONS, ADDITIONS, DELETIONS, CLARIFICATIONS AND/OR INFORMATION ARE HEREBY MADE PART OF THE CONTRACT DOCUMENTS. ADDENDUM MUST BE ACKNOWLEGDED AS PART OF THE BIF FORM.

1. **RFI QUESTIONS**

    1) Will the list of prequalified contractors be posted?
        (a) Yes. A list of contractors that prequalified prior to the cutoff date will be posted with all bid documents to the districts webpage, https://www.mdusd.org/departments/business-services/purchasing-warehouse/bid-information/construction-bids

    2) Is there any opportunity to extend the RFI date, to sometime after bid walk?
        (a) Questions received less than ten (10) calendar days prior to the date for opening Bids may not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. . All questions about the meaning or intent of the Contract Documents are to be directed in writing to the District representative, Mike Torres via email at mike.torres@6dpmcm.com. Interpretations or clarifications considered necessary by the District in response to those questions will be issued in writing by Addenda faxed, mailed, or delivered to all parties recorded by the District as having received the Contract Documents.

2. **Architect Specification and/or Drawing Clarifications – Addendum No. 1: Mt. Diablo Unified School District Rio Vista Elementary School Increment 1**

END OF SECTION

ADDENDUM NO. 1

Project:	Mt Diablo Unified School District **Rio Vista Elementary School** **Increment 1**	
19six #:	23118	
DSA #:	01-121440	File #:7-29
Bid #:	###	
Date:	April 16, 2024	

To all bidders submitting proposals for the above captioned project. This Addendum is hereby included in the Contract Documents to the same extent as though it were originally included therein. The following items modify, add to, delete from, or explain the drawings and/or specifications. The contents of this Addendum shall take precedence over the original specifications and plans.

A. NEW SPECIFICATIONS

ITEM 1. 05 51 50 LADDERS
ITEM 2. 07 56 10 ROOF REPAIR
ITEM 3. 31 05 13 SOILS FOR EARTHWORK
ITEM 4. 31 22 13 ROUGH GRADING
ITEM 5. 31 23 00 EXCAVATION AND FILL
ITEM 6. 31 23 16.13 TRENCHING
ITEM 7. 31 23 23.13 BACKFILL
ITEM 8. 32 11 23 AGGREGATE BASE COURSE
ITEM 9. 32 12 16 ASPHALT PAVEMENT
ITEM 10. 32 12 36 SLURRY SEAL EX ASPHALT PAVING
ITEM 11. 32 13 13 CONCRETE PAVING
ITEM 12. 32 17 00 PAVEMENT SPECIALTIES

B. NEW DRAWINGS

ITEM 1. 1-C1.1 DEMOLITION PLAN
ITEM 2. 1-C2.1 GRADING & DRAINAGE PLAN
ITEM 3. 1-C3.1 NOTES, LEGEND & DETAILS
ITEM 4. 1-C3.2 DETAILS
ITEM 5. 1A-609 CASEWORK ELEVATIONS
ITEM 6. 1S-802 FRAMING DETAILS
ITEM 7. 1T-803 TECHNOLOGY INFRASTRUCTURE DETAILS

C. CHANGES TO SPECIFICATIONS

ITEM 1. 05 21 33 ALUMINUM LADDERS

- Model Numbers updated to match drawing sets

ITEM 2. 07 62 00 SHEET METAL FLASHING

- Updated Code Sections

ITEM 3. 09 91 00 PAINTING

- Updated Code Sections

ITEM 4. 10 11 00 VISUAL DISPLAY SURFACES

- Updated Code Sections

ITEM 5. 10 26 00 WALL PROTECTION

ITEM 6. 26 24 16 PANEL BOARDS

ITEM 7. 28 31 00 INTRUSION DETECTION

- Added information for relocating (E) system

ITEM 8. 28 46 00 FIRE DETECTION AND ALARM

ITEM 9. 32 31 17 ORNAMENTAL STEEL FENCES & GATES

- Updated Code Sections

D. CHANGES TO DRAWINGS

ITEM 1. 1G-001 - TITLE SHEET

- Clarified that this is Increment 1.
- Added all New Drawings to Sheet Index.
  - Sheet 1MP-003 Renamed.
  - Added Civil Sheets as Group 2, All later groups renumbered accordingly.
- Added "Statement of General Conformance" box.

ITEM 2. 1G-101 - FIRE AUTHORITY SITE PLAN

- Added Keynote 01.41.Z (N) ACCESSIBLE PARKING STALL. INSTALL NEW SIGNAGE AT THE EXISTING WOODEN FENCE.
- Added Keynote 32.00.B EXISTING LIGHT POLE. PROTECT DURING CONSTRUCTION.
- Revised Keynote 32.31.D.
- Added Concrete Paving Hatch to Legend.
- Clarified Sand Hatch on Legend as Asphalt Paving, per Civil.
- Updated Parking Stall count for Parking Lot 2.
- Clarified Parking Lot 1 is Visitor Parking.
- Clarified Parking Lot 2 is Staff Parking.
- Made slight Adjustments to Path of Travel.

- Made slight Clarifications to Site Plan for Consistency with later sheets.
- Added View References to Details later in the set.

ITEM 3. 1G-201 - BLDG 1&2 -EXIT ANALYSIS

- Removed Door Actuator from Code Analysis Legend.
- Building 1 Floor Plan:
  - Removed superfluous linework.
  - Removed Door Actuators.
  - Made low wall in front of Stage shorter in length.
  - Updated Occupancy Calculations.
  - Added Drinking Fountain and Guard rails.
- Building 2 Floor plan:
  - Removed Casework from Office Room 208.
  - Removed Explicit references to Autism.
  - Relocated a Paper Towel Dispenser.
  - Added Panic Hardware to door at Classroom C14.

ITEM 4. 1G-202 - BLDG 5&7 -EXIT ANALYSIS

- Removed Door Actuator from Code Analysis Legend.
- Building 5 Floor Plan:
  - Removed Closet from Vice Principal's Office.
- Building 7 Floor Plan:
  - Updated Appearance of Drinking Fountains on exterior of building.
  - Relocated both doors in Classroom 701.

ITEM 5. 1G-900 - ACCESSIBILITY CLEARANCES

- Reworked Detail 14 EXTERIOR DRINKING FOUNTAIN PLAN to reflect new make and model of new Drinking Fountains.
- Updated Knee Clearance information.

ITEM 6. 1A-021 - BLDG 1&2 -DEMO FLOOR PLAN

- Building 1 Demolition Floor Plan:
  - Removed Keynote 02.08.A.
  - Clearstory Windows in MPR are No longer being Demolished and are to remain.
- Building 2 Demolition Floor Plan:
  - Added Gridlines to Mechanical Mezzanine plan.
  - Revised Mechanical Mezzanine plan to indicate entire mezzanine is now to be demolished.

ITEM 7. 1A-022 - BLDG 5&7 -DEMO FLOOR PLAN

- Building 5 Demolition Floor Plan:
  - Added demolition of Closet from Vice Principal's office.
- Building 7 Demolition Floor Plan:
  - Removed Window Demolition from Classroom B2.
  - Adjusted Keynotes.

ITEM 8. 1A-023 - BLDG 1&2 -DEMO REFLECTED CEILING PLAN

- Added Keynote 02.40.M (E) WALL PORTION TO BE DEMOLISHED REQUIRED FOR NEW MECHANICAL DUCTWORK.
- Added Keynote 07.00.B (E) LIGHTING STAGE ROD TO REMAIN. PROTECT DURING CONSTRUCTION.
- Added Keynote 09.00.B (E) CEILING OPENING.
- Added Keynote 09.00.C (E) GLUE-UP ACOUSTICAL CEILING TILES. NO NEW WORK.
- Added Keynote 11.00.A (E) EQUIPMENT TO REMAIN.
- Added Keynote 26.00.E (E) LIGHTING FIXTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
- Building 2 Demolition RCP:
  - Added Demolition of Screen Wall in front of Mechanical Mezzanine

ITEM 9. 1A-024 - BLDG 5&7 -DEMO REFLECTED CEILING PLAN

- Building 5 Demolition RCP:
  - Added demolition of Closet from Vice Principal's office.
- Building 7 Demolition RCP:
  - Added Existing mechanical return register to Room B5, to be demolished.

ITEM 10. 1A-031 - BLDG 1&2 -DEMO EXTERIOR ELEVATIONS

- Building 1 Demolition Exterior Elevations:
  - Existing Clearstory Windows are no longer being demolished.

ITEM 11. 1A-032 - BLDG 5&7 -DEMO EXTERIOR ELEVATIONS

- Building 7 Demolition Exterior Elevations:
  - Added Section of wall to be demolished for new window.
  - Revised 1 Door to be demolished and infilled

- 1 Door previously indicated to demolished and infilled is now only being demolished, to be replaced.
- Removed Section of wall to be demolished for door.

ITEM 12. 1A-102 - ENLARGED SITE PLAN, DEMOLITION & FENCING ELEVATIONS

- Added Details 7 & 8 for Added Fence Scope.
- Reduced level of detail in Details 3 & 4. See Civil Drawings for Additional Detail no longer in Architectural Scope.

ITEM 13. 1A-111 - SITE DETAILS

- Removed Details 1, 2, 3, 6, 7, 8, 11, & 17 from this sheet.
- Added Detail 7 – ADA PARKING LOT STRIPING.
- Added Detail 10 – NEW GATE AT P.O.T.
- Added Detail 12 – WALL MOUNTED DRINKING FOUNTAIN.
- Added Detail 13 ACCESSIBLE PARKING SYMBOL.
- Indicated concrete footings for gate in Detail 22 are flat topped instead of tapered.

ITEM 14. 1A-201 - BLDG 1&2 -FLOOR PLAN

- Added Keynote 08.00.C (E) DOOR AND FRAME TO REMAIN.
- Revised Keynotes 09.22.E, 22.43.A, and 22.43.D.
- Added Floor Plan General Note #7.
- Building 1 Floor Plan:
  - Added ADA Door Clearances to some Doors.
  - Removed Door Actuator.
- Building 2 Floor Plan:
  - Removed Mechanical Mezzanine.
  - Adjusted Infill Wall and Door swing in Rooms C13 and 218.

ITEM 15. 1A-202 - BLDG 5&7 -FLOOR PLAN

- Revised Keynote 22.43.D.
- Building 5 Floor Plan:
  - Removed Casework from Room A6.
  - Removed Closet from Vice Principal's Office.
  - Indicated that Staff Restroom Room 515 is Non-Compliant with ADA Requirements for Accessibility.
  - Added ADA Door and Turning Clearances to Doors and Select Rooms.
  - Added View Reference for Room 506.

- Added Wall Patch where New Reception Desk meets Wall.
- Removed Door Actuator from Principal's Office.

- Building 7 Floor Plan:
  - Changed the Locations of New Doors in Room 701 and 703.
  - Added ADA Door and Sink Clearances.

ITEM 16. 1A-205 - BLDG 1&2 -ROOF PLAN

- Removed Keynotes 10.00.B and 23.13.B.
- Added Keynote 23.00.B (E) MECHANICAL UNIT. NO NEW WORK.
- Building 1 Roof Plan:
  - Revised extents of Roof Demolition
  - Showed Existing lower roof Canopy, not new work.
- Building 2 Roof Plan:
  - Removed Split Heat Pump and Associated work.
  - Added 2 Exhaust Fans, see Mechanical Drawings for more Details.
  - Clarified Existing Mechanical Equipment to remain.

ITEM 17. 1A-206 - BLDG 5&7 -ROOF PLAN

- Added Keynote 23.00.B (E) MECHANICAL UNIT. NO NEW WORK.
- Building 7 Roof Plan:
  - Clarified Existing Mechanical Equipment to remain.

ITEM 18. 1A-211 - BLDG 1&2 -REFLECTED CEILING PLAN

- Removed Keynotes 08.31.A, 08.51.A, and 26.00.F.
- Added Keynote 09.00.C (E) GLUE-UP ACOUSTICAL CEILING TILES. NO NEW WORK.
- Added Keynote 09.51.A (N) 8'X4' DIRECT CEILING MOUNT PANELS WITH EXTRA-DEEP HAT CHANNEL.
- Added Keynote 09.51.G (N) GLUE UP CEILING TILES PATCH. REUSE SALVAGED 2'X'6 CEILING TILES FROM BLDG 2.
- Added Keynote 09.51.H REMOVE AND REINSTALL GLUE-UP CEILING TILES AS REQUIRED FOR DUCT HANGERS ATTACHED TO THE ROOF FRAMING. REUSE SALVAGED 2'X'6 CEILING TILES FROM BLDG 2 IF REPLACEMENT IS REQUIRED.
- Added Keynote 11.00.A (E) EQUIPMENT TO REMAIN.
- Building 2 RCP:
  - Added Linear Light Fixtures to Room 204, 206, 208, Bathrooms and Storage Closet.
  - Raised Ceiling height of Bathrooms and Storage Closet.

- Building 1 RCP:
    - Clearstory Windows is now existing instead of new.
    - Added Mechanical Ducts and Registers. See Mechanical Drawings for more Details.
    - Added Existing Lighting, not new work.
    - Added Garbage Room RCP.

ITEM 19. 1A-212 - BLDG 5&7 -REFLECTED CEILING PLAN

- Ceiling Legend:
    - Added View References to Acoustic Tile Ceilings.
    - Reduced number of View References for Panelized Wood Ceiling.
    - Added View Reference for New Gyp. Board Ceiling.
    - Added View Reference for Hexagonal Acoustical Panels.
    - Removed Recessed Roller Shades.
- Building 5 RCP:
    - Added Linear Light Fixtures to nearly all rooms of Admin Offices.
    - Removed Window from Unisex Staff Restroom Room 525.
    - Ceiling In Unisex Staff Restroom Room 525 is no longer sloped.
- Building 7 RCP:
    - Added Linear Light Fixtures to Rooms 702, 704, 705, 706, and 709.

ITEM 20. 1A-251 - BLDG 1&2 -FINISH & SIGNAGE PLAN

- Changed Sheet Name to Include Building 1.
- Added Signage General Note #2.
- Added Differentiation between New and Existing Signage to Signage Legend.
- Added All-Gender Wall and Door Restroom Signs to Signage Legend.
- Added Building 1 Plan to this Sheet.
- Building 2 Finish Key Plan:
    - Added View References for Floor Finish Transitions between Rooms at Doors.
    - Removed Casework from Office Room 208
    - Removed Errant furniture items from Room C12, No Scope Change.
    - Added Additional notes and Dimensions to Existing Ramp, not new work.
    - Added Additional Signage.

ITEM 21. 1A-252 - BLDG 5&7 -FINISH & SIGNAGE PLAN

- Added Signage General Note #2.
- Added Differentiation between New and Existing Signage to Signage Legend.

- Added All-Gender Wall and Door Restroom Signs to Signage Legend.
- Building 5 Finish Key Plan:
  - Added Additional Signage.
  - Changed Floor Finish in Room A7.
- Building 7 Finish Key plan:
  - Added Additional Signage.

ITEM 22. 1A-301 - BLDG 1&2 -EXTERIOR ELEVATIONS

- Clearstory Windows on Building 1 are now existing instead of new.

ITEM 23. 1A-302 - BLDG 5&7 -EXTERIOR ELEVATIONS

- Removed Keynotes 09.91.B and 22.47.A.
- Building 5 Exterior Elevation:
  - Added Area of Wall Patch.
  - Added Keynote Clarifying New Clearstory Windows.
- Building 7 Exterior Elevation:
  - Added Areas of Wall Patch.
  - Added new Window next to Door 707.
  - Changed 1 door to Wall Patch.
  - Changed 1 Wall Patch to Door.
  - Removed an area of Wall Patch.

ITEM 24. 1A-401 - BUILDING SECTIONS

- Building 2 Section AA:
  - Remove Dimension for Hexagon Panel Height from Ground – See RCP instead.
- Building 2 Section BB:
  - Added Tack Board to wall.
- Building 7 Section AA:
  - Changed Door Locations.
  - Replaced a Door with Tack Panel.

ITEM 25. 1A-405 - BLDG 2,5&7 -WALL SECTIONS

- 8.11.A Keynote has been removed.

ITEM 26. 1A-501 - RESTROOM PLAN ENLARGEMENTS

- Detail 1: Scale revised
- Detail 1 elevation 1A revised: Spacing to the dimensions added for clarification, keynotes order adjusted for clarification
- Detail 1 elevation 1B revised: Dimensions added for clarification
- Detail 1 elevation 1D revised: Infill wall at existing wall has been removed and replaced for a new wall.
- Detail 1 elevation 1F revised: New location for paper towel dispenser
- Detail 2: Scale revised

- Detail 2 elevation 3B revised: Dimensions added for clarification, new location of toilet seat cover dispenser.
- Detail 2 elevation 3C revised: Toilet seat cover dispenser relocated to a different wall.
- Detail 3 elevation 4A revised: Representation of wall patch as needed has been added regarding plumbing work.
- Detail 3 elevation 4B revised: New window removed for a wall infill.
- Detail 4 revised: Dimensions added for clarification. User group and age group notes have been added, new location for paper towel dispenser. Previous RR note for user age removed.
- Detail 5 revised: User group and age group notes have been added.
- Detail 6 revised: User group and age group notes have been added.
- Clearance to finish surface table have dimensions revised for clarification
- Note 11 "SEE 1G 900 FOR TYPICAL FIXTURE AND ACCESSORY PLACEMENT DIMENSIONS" has been added to Restroom General Notes table.
- 26.51.A keynote has been removed.

ITEM 27. 1A-502 - RESTROOM PLAN ENLARGEMENTS

- Detail 1: Scale revised
- Detail 2: Scale revised
- Detail 3: Scale revised
- Detail 4: Note added "RESTROOM UNISEX SINGLE USER
- AGES 9-12"
- Detail 5: Note added "RESTROOM UNISEX SINGLE USER
- AGES 5-8"
- Detail 6: Note added "RESTROOM UNISEX SINGLE USER
- AGES 5-8"

ITEM 28. 1A-609 - CASEWORK ELEVATIONS

- Detail 1 revised: Section details added clarification.
- Detail 2 revised: Casework finishes Color and Remarks added
- Detail 3 removed from the sheet.
- Detail 4 revised: Section details added clarification.
- Detail 5 revised: Casework finishes Color and Remarks added. The base cabinet under the lower sink has been replaced with a base cabinet with double doors.
- Detail 6 revised: Section details added for clarification.
- Detail 7 revised: Section details added clarification. Casework finishes Color and Remarks added.
- Detail 8 revised: Section details added clarification.

- Detail 9 revised: Section details added clarification.
- Interior Elevation Legend Revised: Reference for casework tag added for clarification.
- Clearance to finish surface table added for clarification.

ITEM 29. 1A-701 - EXTERIOR DETAILS

- Detail 1 Revised: Added notes and graphics to existing wood trim, Z-Flashing, TPO roof only for clarification.

ITEM 30. 1A-702 - EXTERIOR DETAILS

- Detail 1 revised – Note added "7" MAX." from building wall.

ITEM 31. 1A-801 - DOOR SCHEDULE

- Schedule revised – Added panic hardware on door 703
- Door actuator detail removed from the sheet.
- Revised door Type "C" - Dimension added to lever height.

ITEM 32. 1A-811 - WINDOW SCHEDULE

- Detail added window type "D"

ITEM 33. 1A-821 - DOOR AND WINDOW DETAILS

- Revised detail 19 – Note added "#10 X 6" LONG WOOD SCREW @ 8" O.C. TYP."

ITEM 34. 1A-911 - WALL TYPES & DETAILS

- Revised Detail 8
- Revised Detail 16

ITEM 35. 1A-921 - INTERIOR DETAILS

- Revised Detail 3
- Revised Detail 20 to show blocking
- Revised Detail 21 to show new attachments to Gyp Wall
- Removed Detail 22
- Added Detail 8
- Added Detail 25

ITEM 36. 1A-922 - CEILING DETAILS

- Added Detail 3
- Revised Detail 4 with 8'-0" max Ceiling Plan, added detail call outs for clarification
- Revised Detail 5
- Removed Detail 18
- Detail 20 Replaced with new detail
- Added Detail 25

ITEM 37. 1A-923 - CEILING DETAILS

- Changed Ceiling System from Woodworks to Rulon System

- Replaced all details with new wood ceiling system, to be attached to Armstrong T-Bar Ceiling Grid
- Revised Ceiling System General Notes

ITEM 38. 1A-924 - CEILING DETAILS

- Revised Detail 3 – Updated (E) Framing and attachments
- Revised Detail 5 – Modified attachments of ACT and added insulation
- Revised Detail 11 – Modified Screw size

ITEM 39. 1A-925 - SIGNAGE DETAILS

- Revised Detail 10

ITEM 40. 1A-931 - CASEWORK DETAILS

- Note 2 Backing Notes C – Added Note "See Structural Drawings"
- Removed Detail 5
- Added Detail 6
- Revised Detail 7
- Removed Detail 13
- Revised Detail 14
- Revised Detail 15
- Added Detail 16
- Revised Detail 17
- Revised Detail 18
- Revised Detail 19
- Revised Detail 20

ITEM 41. 1S-201 - BUILDING 1 & 2 - FOUNDATION PLANS

- See updated (E) MEZZANINE DEMO PLAN BUILDING 2

ITEM 42. 1S-203 - BUILDING 1 & 2 - ROOF FRAMING PLANS

- See revised 1S-203

ITEM 43. 1S-204 - BUILDING 5 & 7 FRAMING PLANS

- See updated ROOF FRAMING PLAN - BUILDING 7

ITEM 44. 1S-502 - CONCRETE DETAILS

- Added detail 5
- Revises detail 1 and 2

ITEM 45. 1S-800 - NAILING SCHEDULE

- Revisions to FASTENING SCHEDULE
- Revises detail 11

ITEM 46. 1S-801 - FRAMING DETAILS

- Revises detail 10

ITEM 47. 1E002 SCHEDULES

- Revisions to LUMINAIRE SCHEDULE

ITEM 48. 1E003 SCHEDULES

- Revisions to EQUIPMENT SCHEDULE

ITEM 49. 1E004 SCHEDULES

- Revisions to (E) PANEL CB2A Table
- Revisions to (E) PANEL CSP1 Table
- Revisions to (E) PANEL CB2B Table
- Revisions to (E) PANEL NA Table
- Revisions to (E) PANEL NE Table

ITEM 50. 1E201 LIGHTING PLANS

- Text change to GENERAL DEMOLITION NOTES
- See updated BLDG 2 – LIGHTING PLAN

ITEM 51. 1E202 LIGHTING PLANS

- Text change to GENERAL DEMOLITION NOTES
- See updated BLDG 5 – LIGHTING PLAN

ITEM 52. 1E203 LIGHTING PLANS

- Text change to GENERAL DEMOLITION NOTES
- See updated BLDG 5 – LIGHTING PLAN

ITEM 53. 1E204 LIGHTING PLANS

- Text change to GENERAL DEMOLITION NOTES
- See updated BLDG 7 – LIGHTING PLAN

ITEM 54. 1E300 POWER & SIGNAL PLANS

- Text change to GENERAL DEMOLITION NOTES
- See updated BLDG 2 – DEMO POWER & SIGNAL PLAN

ITEM 55. 1E301 POWER & SIGNAL PLANS

- Text change to SHEET NOTES LINES 4,5,6,7,8
- See updated BLDG 2 – POWER & SIGNAL PLAN

ITEM 56. 1E302 POWER & SIGNAL PLANS

- Text change to SHEET NOTES LINES 2,3,4,6,9,10,11,12,13
- Text change to GENERAL DEMOLITION NOTES LINE "A"
- See updated BLDG 5 – DEMO POWER & SIGNAL PLAN
- See updated BLDG 5 – POWER & SIGNAL PLAN

ITEM 57. 1E303 POWER & SIGNAL PLANS

- Text change to GENERAL DEMOLITION NOTES
- See updated BLDG 5 – POWER & SIGNAL PLAN

ITEM 58. 1E304 POWER & SIGNAL PLANS

- Text change to GENERAL DEMOLITION NOTES
- Text change to SHEET NOTES LINES 3,4,5,8
- See updated BLDG 7 – DEMO POWER & SIGNAL PLAN
- See updated BLDG 7 – POWER & SIGNAL PLAN

ITEM 59. 1E305 POWER & SIGNAL PLANS

- Text change to SHEET NOTES LINE 4
- See updated BLDG 1 – POWER & SIGNAL PLAN

ITEM 60. 1E401 GENERAL INFORMATION

- Revise detail 3

ITEM 61. 1E402 GENERAL INFORMATION

- Revise detail 3,4,6,7,8

ITEM 62. 1E501 TITLE 24

- See revised 1E501

ITEM 63. 1E502 TITLE 24

- See revised 1E502

ITEM 64. 1E503 TITLE 24

- See revised 1E503

ITEM 65. 1E504 TITLE 24

- See revised 1E504

ITEM 66. 1F000 GENERAL INFORMATION

- Revise FIRE ALARM GENERAL NOTES
- Revise PROJECT DESCRIPTION
- Revise ABBREVIATIONS

ITEM 67. 1F001 SCHEDULES

- See revised 1F001

ITEM 68. 1F002 SCHEDULES

- See revised 1F002

ITEM 69. 1F100 SITE PLAN

- Revised BUILDING 5

ITEM 70. 1F200 FIRE ALARM PLANS

- Revise GENERAL DEMOLITION NOTES

ITEM 71. 1F201 FIRE ALARM PLANS

- Revise FIRE ALARM WIRE TYPES Table
- See updated BLDG 2 – FIRE ALARM PLAN

ITEM 72. 1F202 FIRE ALARM PLANS

- Revise GENERAL DEMOLITION NOTES
- Revise FIRE ALARM WIRE TYPES Table
- Text change to SHEET NOTES LINE 2,4
- See updated BLDG 5 – DEMO FIRE ALARM PLAN
- See updated BLDG 5 – FIRE ALARM PLAN

ITEM 73. 1F203 FIRE ALARM PLANS

- Revise GENERAL DEMOLITION NOTES

ITEM 74. 1F204 FIRE ALARM PLANS

- Revise GENERAL DEMOLITION NOTES

- Revise FIRE ALARM WIRE TYPES Table

ITEM 75. 1F301 DIAGRAMS

- Revise FIRE ALARM WIRE TYPES Table
- See updated FIRE ALARM RISER DIAGRAM

ITEM 76. 1F302 DIAGRAMS

- Revise FIRE ALARM WIRE TYPES Table
- See updated FIRE ALARM RISER DIAGRAM

ITEM 77. 1F401 GENERAL INFORMATION

- Revise detail 4

ITEM 78. 1T-000 TECHNOLOGY INFRASTRUCTURE COVERSHEET

- Revise TECHNOLOGY SYMBOL LEGEND
- Added INTRUSION SYMBOL LEGEND

ITEM 79. 1T-010 TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO

- Added PANEL ROOM PICTURE DETAIL
- Added OPEN RUN EXTERIOR CABLE PICTURE DETAIL
- Added KEY PLAN
- Revise GENERAL NOTES
- Added SHEET NOTES

ITEM 80. 1T-020 TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO

- Revise GENERAL NOTES
- Revise SHEET NOTES
- Added DEMO SHEET NOTES
- See updated TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING 1
- See updated TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING 2

ITEM 81. 1T-021 TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO

- Revise GENERAL NOTES
- Revise SHEET NOTES
- Added INTERIM MDF SCOPE OF WORK
- Added INTERIM IDF SCOPE OF WORK
- Added IACP RELOCATION SCOPE OF WORK
- Added IACP AND DATA CONDUIT REWORK PICTURE DETAIL
- Added CLOCK HEADEND DEMO AT OFFICE PICTURE DETAIL
- Added INTERIM MDF PICTURE DETAIL
- Added BREAK OUT ROOM PICTURE DETAIL
- Added DEMO SHEET NOTES
- See updated TECHNOLOGY INFRA. FLOOR PLAN DEMO – BUILDING 5
- See updated TECHNOLOGY INFRA. FLOOR PLAN DEMO – BUILDING 7

ITEM 82. 1T-100 TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW

- Revise GENERAL NOTES

- Revise CONDUIT QTY. AND SIZE
- Added KEY PLAN
- See updated TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW

ITEM 83. 1T-200 TECHNOLOGY INFRASTRUCTURE FLOOR PLANS NEW

- Revise GENERAL NOTES
- Revise SHEET NOTES
- See updated TECHNOLOGY INFRA. FLOOR PLAN NEW – BUILDING 1
- See updated TECHNOLOGY INFRA. FLOOR PLAN NEW – BUILDING 2

ITEM 84. 1T-201 TECHNOLOGY INFRASTRUCTURE FLOOR PLANS NEW

- Revise GENERAL NOTES
- Revise SHEET NOTES
- Added MDF 1.00 INTERIOR ELEVATIONS
- See updated TECHNOLOGY INFRA. FLOOR PLAN NEW – BUILDING 5
- See updated TECHNOLOGY INFRA. FLOOR PLAN NEW – BUILDING 7

ITEM 85. 1T-300 TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW

- See updated SHEET NOTES
- See updated TECHNOLOGY INFRA. RCP NEW – BUILDING 1
- See updated TECHNOLOGY INFRA. RCP NEW – BUILDING 2

ITEM 86. 1T-301 TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW

- Revise SHEET NOTES
- See updated TECHNOLOGY INFRA. RCP NEW – BUILDING 5
- See updated TECHNOLOGY INFRA. RCP NEW – BUILDING 7

ITEM 87. 1T-700 TECHNOLOGY INFRASTRUCTURE SINGLE LINES

- See revised 1T-700

ITEM 88. 1T-701 TECHNOLOGY INFRASTRUCTURE SINGLE LINES

- See revised 1T-701

ITEM 89. 1T-800 TECHNOLOGY INFRASTRUCTURE DETAILS

- Added detail 4,5,6,10, and 20

ITEM 90. 1T-801 TECHNOLOGY INFRASTRUCTURE DETAILS

- Added detail 9

ITEM 91. 1T-802 TECHNOLOGY INFRASTRUCTURE DETAILS

- See revised 1T-802

D. ATTACHMENTS

A. NEW SPECS

- **05 51 50 LADDERS**
- **07 56 10 ROOF REPAIR**
- **31 05 13 SOILS FOR EARTHWORK**
- **31 22 13 ROUGH GRADING**

- **31 23 00 EXCAVATION AND FILL**
- **31 23 16.13 TRENCHING**
- **31 23 23.13 BACKFILL**
- **32 11 23 AGGREGATE BASE COURSE**
- **32 12 16 ASPHALT PAVEMENT**
- **32 12 36 SLURRY SEAL EX ASPHALT PAVING**
- **32 13 13 CONCRETE PAVING**
- **32 17 00 PAVEMENT SPECIALTIES**

B. MODIFIED SPECS

- **05 21 33 ALUMINUM LADDERS**
- **07 62 00 SHEET METAL FLASHING**
- **09 91 00 PAINTING**
- **10 11 00 VISUAL DISPLAY SURFACES**
- **10 26 00 WALL PROTECTION**
- **26 24 16 PANEL BOARDS**
- **28 31 00 INTRUSION DETECTION**
- **28 46 00 FIRE DETECTION AND ALARM**
- **32 31 17 ORNAMENTAL STEEL FENCES & GATES**

C. NEW DRAWING SHEETS

- **1-C1.1 DEMOLITION PLAN**
- **1-C2.1 GRADING & DRAINAGE PLAN**
- **1-C3.1 NOTES, LEGEND & DETAILS**
- **1-C3.2 DETAILS**
- **1S-802 - FRAMING DETAILS**
- **1A-609 CASEWORK ELEVATIONS**
- **1T-803 TECHNOLOGY INFRASTRUCTURE DETAILS**

D. MODIFIED DRAWING SHEETS

- **1G-001 - TITLE SHEET**
- **1G-101 - FIRE AUTHORITY SITE PLAN**
- **1G-201 - BLDG 1&2 -EXIT ANALYSIS**
- **1G-202 - BLDG 5&7 -EXIT ANALYSIS**
- **1G-900 - ACCESSIBILITY CLEARANCES**
- **1A-021 - BLDG 1&2 -DEMO FLOOR PLAN**
- **1A-022 - BLDG 5&7 -DEMO FLOOR PLAN**
- **1A-023 - BLDG 1&2 -DEMO REFLECTED CEILING PLAN**
- **1A-024 - BLDG 5&7 -DEMO REFLECTED CEILING PLAN**
- **1A-031 - BLDG 1&2 -DEMO EXTERIOR ELEVATIONS**
- **1A-032 - BLDG 5&7 -DEMO EXTERIOR ELEVATIONS**
- **1A-102 - ENLARGED SITE PLAN, DEMOLITION & FENCING ELEVATIONS**
- **1A-111 - SITE DETAILS**
- **1A-201 - BLDG 1&2 -FLOOR PLAN**
- **1A-202 - BLDG 5&7 -FLOOR PLAN**
- **1A-205 - BLDG 1&2 -ROOF PLAN**

- **1A-206 - BLDG 5&7 -ROOF PLAN**
- **1A-211 - BLDG 1&2 -REFLECTED CEILING PLAN**
- **1A-212 - BLDG 5&7 -REFLECTED CEILING PLAN**
- **1A-251 - BLDG 2 -FINISH & SIGNAGE PLAN**
- **1A-252 - BLDG 5&7 -FINISH & SIGNAGE PLAN**
- **1A-301 - BLDG 1&2 -EXTERIOR ELEVATIONS**
- **1A-302 - BLDG 5&7 -EXTERIOR ELEVATIONS**
- **1A-401 - BUILDING SECTIONS**
- **1A-405 - BLDG 2,5&7 -WALL SECTIONS**
- **1A-501 - RESTROOM PLAN ENLARGEMENTS**
- **1A-502 - RESTROOM PLAN ENLARGEMENTS**
- **1A-609 - CASEWORK ELEVATIONS**
- **1A-701 - EXTERIOR DETAILS**
- **1A-702 - EXTERIOR DETAILS**
- **1A-801 - DOOR SCHEDULE**
- **1A-811 - WINDOW SCHEDULE**
- **1A-821 - DOOR AND WINDOW DETAILS**
- **1A-911 - WALL TYPES & DETAILS**
- **1A-921 - INTERIOR DETAILS**
- **1A-922 - CEILING DETAILS**
- **1A-923 - CEILING DETAILS**
- **1A-924 - CEILING DETAILS**
- **1A-925 - SIGNAGE DETAILS**
- **1A-931 - CASEWORK DETAILS**
- **1S-201 - BUILDING 1 & 2 - FOUNDATION PLANS**
- **1S-202 - BUILDING 5 & 7 - FOUNDATION PLANS**
- **1S-203 - BUILDING 1 & 2 - ROOF FRAMING PLANS**
- **1S-204 - BUILDING 5 & 7 FRAMING PLANS**
- **1S-501 - TYPICAL CONCRETE DETAILS**
- **1S-502 - CONCRETE DETAILS**
- **1S-800 - NAILING SCHEDULE**
- **1S-801 - FRAMING DETAILS**
- **1E002 SCHEDULES**
- **1E003 SCHEDULES**
- **1E004 SCHEDULES**
- **1E201 LIGHTING PLANS**
- **1E202 LIGHTING PLANS**
- **1E203 LIGHTING PLANS**
- **1E204 LIGHTING PLANS**
- **1E300 POWER & SIGNAL PLANS**
- **1E301 POWER & SIGNAL PLANS**
- **1E302 POWER & SIGNAL PLANS**
- **1E303 POWER & SIGNAL PLANS**
- **1E304 POWER & SIGNAL PLANS**

- **1E305 POWER & SIGNAL PLANS**
- **1E401 GENERAL INFORMATION**
- **1E402 GENERAL INFORMATION**
- **1E501 TITLE 24**
- **1E502 TITLE 24**
- **1E503 TITLE 24**
- **1E504 TITLE 24**
- **1F000 GENERAL INFORMATION**
- **1F001 SCHEDULES**
- **1F002 SCHEDULES**
- **1F100 SITE PLAN**
- **1F200 FIRE ALARM PLANS**
- **1F201 FIRE ALARM PLANS**
- **1F202 FIRE ALARM PLANS**
- **1F203 FIRE ALARM PLANS**
- **1F204 FIRE ALARM PLANS**
- **1F301 DIAGRAMS**
- **1F302 DIAGRAMS**
- **1F401 GENERAL INFORMATION**
- **1T-000 TECHNOLOGY INFRASTRUCTURE COVERSHEET**
- **1T-010 TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO**
- **1T-020 TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO**
- **1T-021 TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO**
- **1T-100 TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW**
- **1T-200 TECHNOLOGY INFRASTRUCTURE FLOOR PLANS NEW**
- **1T-201 TECHNOLOGY INFRASTRUCTURE FLOOR PLANS NEW**
- **1T-300 TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW**
- **1T-301 TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW**
- **1T-700 TECHNOLOGY INFRASTRUCTURE SINGLE LINES**
- **1T-701 TECHNOLOGY INFRASTRUCTURE SINGLE LINES**
- **1T-800 TECHNOLOGY INFRASTRUCTURE DETAILS**
- **1T-801 TECHNOLOGY INFRASTRUCTURE DETAILS**
- **1T-802 TECHNOLOGY INFRASTRUCTURE DETAILS**

Mariana Alvarez Parga C-36107

SECTION 05 51 50 – EXTERIOR ALUMINUM LADDERS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Aluminum access ladders.

B. Aluminum ship's ladders.

C. Aluminum cage ladders.

1.2 RELATED SECTIONS

A. Section 05500 – Metal Fabrications: Fasteners and installation requirements used to attach ladders to structure.

B. Section 15050 – Basic Electrical Materials and Methods: For electrical grounding of ladders.

1.3 REFERENCES

A. AA – Aluminum Association.

B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

C. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

D. OSHA 1910.27 – Fixed Ladders.

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Manufacturer's data sheets on each product.

C. Shop Drawings:

1. Detail fabrication and erection of each ladder indicated. Include plans, elevations, sections, and details of metal fabrications and their connections.

2. Provide templates for anchors and bolts specified for installation under other Sections.

3. Provide reaction loads for each hanger and bracket.

D. Qualification Data:

1. Refer to Quality Assurance provisions for submittal requirements evidencing experience, certifications and resources.

E. Selection Samples: For each finish specified, two complete sets of color chips representing manufacturer's full range of available colors.

F. Verification Samples: For each finish specified, two samples, minimum size 6 inches (150 mm) square, represent actual product color.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A firm experienced in producing aluminum metal ladders similar to those indicated for this Project.

1. Record of successful in-service performance.

2. Sufficient production capacity to produce required units.

3. Professional engineering competent in design and structural analysis to fabricate ladders in compliance with industry standards and local codes.

B. Installer Qualifications: Competent and experienced firm capable of selecting fasteners and installing ladders to attain designed operational and structural performance.

C. Product Qualification: Product design shall comply with OSHA 1910.27 minimum standards for ladders.

D. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.

1. Install ladder in area designated by Architect.

2. Do not proceed with remaining work until workmanship and installation are approved by Architect.

3. Rework mock-up as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

1.7 PROJECT CONDITIONS

A. Field Measurements: Verify dimensions by field measurement before fabrication.

1. Established Dimensions: Where field measurements cannot be made without delaying the Work, indicate established dimensions on shop drawing submittal and proceed with fabrication.

1.8 WARRANTY

A. A. Manufacturer has responsibility for an extended Corrective Period for work of this Section for a period of 5 years commencing on the shipment date of the product against all the conditions indicated below, and when notified in writing from Owner, manufacturer shall promptly and without inconvenience and cost to Owner correct said deficiencies.

1. Defects in materials and workmanship.

2. Deterioration of material and surface performance below minimum OSHA standards as certified by independent third party testing laboratory. Ordinary wear and tear, unusual abuse or neglect excepted.

3. Within the warranty period, the manufacturer shall, at its option, repair, replace, or refund the purchase price of defective ladder.

B. Manufacturer shall be notified immediately of defective products, and be given a reasonable opportunity to inspect the goods prior to return. Manufacturer will not assume responsibility, or compensation, for unauthorized repairs or labor. Manufacturer makes no other warranty, expressed or implied, to the merchantability, fitness for a particular purpose, design, sale, installation, or use, of the ladder; and shall not be liable for incidental or consequential damages, losses of or expenses, resulting from the use of ladder products.

1.9 EXTRA MATERIALS

A. Furnish touchup kit for each type and color of paint finish provided.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: O'Keeffe's, Inc.; 100 N Hill Drive, Suite 12, Brisbane, CA 94005. Toll Free Tel: (888) 653-3333. Tel: (415) 824-4900. Fax: (415) 824-5900. Email: info@okeeffes.com. Web: http://www.okeeffes.com.

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 APPLICATIONS/SCOPE

A. Fixed and Cage Ladder Design:

1. Safety cages are required on ladders over 20 feet (6096 mm)
2. Safety cages are required on all ladders in high or hazardous areas.
3. Landing platforms are required at 30 feet (9144 mm) above the bottom of the ladder.
4. Rail and harness fall arrest system as alternate to safety cage and landing platforms shall be a permissible manufacturer's option.
    a. Fixed Ladder Bottom Bracket:
    b. Bottom floor supported bracket.
    c. Bottom wall supported bracket.
    d. Bracket as drawn.

B. Fixed Access Ladder:

1. Standard Duty Channel Rail.
    a. Model 500 as manufactured by O'Keeffe's Inc.
2. Tubular Rail Low Parapet Access Ladder with Roofover Rail Extension.
    a. Model 502 as manufactured by O'Keeffe's Inc.
3. Tubular Rail Low Parapet Access Ladder with Platform.
    a. Model 503A as manufactured by O'Keeffe's Inc.

2.3 FINISHES

A. Mill finish. As extruded.

B. Clear Anodic Finish: AA-M10C22A41 Mechanical finish as fabricated. Architectural Class I, clear coating 0.018 mm or thicker.

C. Paint. Urethane over chemically pretreated substrate.

1. Fire Red (RAL 2002).
2. Alert Orange (RAL 2003).
3. Warning Blue (RAL 5005).
4. Caution Yellow (RAL 1018).
5. Safety Green (RAL 6001).
6. As scheduled on drawings.

2.4 MATERIALS

A. Aluminum Sheet: Alloy 5005-H34 to comply with ASTM B209.

B. Aluminum Extrusions: Alloy 6063-T6 to comply with ASTM B221.

2.5 FABRICATION

A. Rungs: Not less than 1-1/4 inches (32 mm) in section and 18–3/8 inches (467mm) long, formed from tubular aluminum extrusions. Squared and deeply serrated on all sides.

1. Rungs shall withstand a 1,500 pound (454 kg) load without deformation or failure.

B. Channel Side Rails: Not less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide.

C. Heavy Duty Tubular Side Rails: Assembled from two interlocking aluminum extrusions no less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide. Construction shall be self-locking stainless steel fasteners, full penetration TIG welds and clean, smooth and burr-free surfaces.

D. Ship Ladders: Not less than 1-1/4 inches (32mm) high, 4-1/8 inch (105 mm) deep and 2 feet (610 mm) wide; tread spacing shall be 1 foot (305 mm) on center. Handrails shall be aluminum pipe, not less than 1-1/2 inches (38 mm) in diameter with hemispheric end caps.

E. Walk-Through Rail and Roof Rail Extension: Not less than 3 feet 6 inches (1067 mm) above the landing and shall be fitted with deeply serrated, square, tubular grab rails.

F. Landing Platform: 1-1/2 inches (38 mm) or greater diameter, tubular aluminum guardrails and decks of serrated aluminum treads.

G. Security Doors: Formed 1/8 inch (3 mm) thick aluminum sheet. Security panels shall extend on both sides, perpendicular to the door face, to within 2 inches (51 mm) of the wall. Security door shall be furnished with continuous aluminum piano hinge and heavy duty forged steel locking hasps.

H. Ship Ladder Seismic Bottom Support: Manufacturer's standard; two isolation bearings per stringer.

I. Ladder Safety Post: Retractable hand hold and tie off.

J. Rail and Harness Fall Arrest System: Supplied where specified as alternate to safety cage and landing platforms, in accordance with OSHA regulation 1910.27; permanently mounted to ladder rungs and complete with necessary components.

K. Safety Cages:

1. Fabricate ladder safety cages to comply with authority having jurisdiction. Assemble by welding. Spacing of primary hoops, secondary hoops and vertical bars shall not exceed that required by code.

2. Safety cage hoops and vertical bars: 3/16 inch (5 mm) by 2 inches (51 mm) aluminum bar.

PART 3 EXECUTION

3.1 EXAMINATION

A. Coordinate anchorages. Furnish setting drawings, templates, and anchorage structural loads for fastener resistance.

B. Do not begin installation until supporting structure is complete and ladder installation will not interfere with supporting structure work.

C. If supporting structure is the responsibility of another installer, notify Architect of unsatisfactory supporting work before proceeding.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction.

3.3 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

In the interest of continuous improvement of its product line, O'Keeffe's reserves the right to modify its products' composition, colors, textures, sizes, and other physical and performance attributes and these guide specifications at any time. O'Keeffe's makes no expressed or implied warranties regarding content, errors, or omissions in the information presented. Specifications modified or rewritten not in conformance with manufacturer's standard processes, products, and procedures may void warranties and related remedies.

SECTION 07 56 10

ROOFING REPAIR

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Provide all labor, equipment, and materials to maintain and protect the existing roof system.

1.02 RELATED SECTIONS

A. Section 07 6200- Sheet Metal Flashing and Trim: Sheet metal flashing and trim.

1.03 SYSTEM DESCRIPTION

A. Roofing work including but not limited to:
   1. Flashing installation at new penetrations.
   2. Repair of damaged or deteriorated flashing.
   3. Install fill insulation where needed, base sheet and modified cap sheet per detail.
   4. All flashings to consist of one ply of base sheet set in mastic covered by an additional layer of modified bitumen membrane.
   5. Roof coating:
      a. Acrylic/urethane hybrid in field of roof.
   6. Vent coating.

1.04 PERFORMANCE REQUIREMENTS

A. Make roof weathertight and watertight. All drainage to flow off roof, do not permit standing water.

1.05 SUBMITTALS

A. See Section 013000 - Submittals, for submittal procedures.

B. Product Data: Provide manufacturer's data sheets documenting conformance with specified requirements.

C. Manufacturer's Field Reports: Indicate deviations or deficiencies observed during site visits, record method of resolution.

D. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.
   1. Manufacturer will inspect completed work.

B. Installer Qualifications: Company specializing in performing the work of this section and approved by manufacturer.
   1. Installer's Field Supervision: Require Installer to maintain a full-time Supervisor/Foreman on job site during all phases of bituminous sheet roofing work and at any time roofing work is in progress, proper supervision of workmen shall be maintained. A copy of the specification shall be in the possession of the Supervisor/Foremen and on the roof at all times.

C. Respond immediately to correction of roof leakage during construction. If the contractor does not respond within 24 hours, the Owner has the right to hire a qualified contractor and backcharge the original contractor.

1.07 PRE-INSTALLATION MEETING

A. Convene two weeks before starting work of this section. Meet at Project site with Installer, installer of each component of associated work, installers of deck or substrate construction to receive roofing work, installers of rooftop units and other work in the around roofing that must precede or follow roofing work (including mechanical work if any), Architect/Owner, roofing system manufacturer's representative, and other representatives directly

concerned with performance of the Work, including (where applicable) Owner's insurers, test agencies, and governing authorities. Objectives to include:

B. Review preparation and installation procedures and coordinating and scheduling required with related work.
   1. Review methods and procedures related to roofing work.
   2. Review structural loading limitations of deck.
   3. Review roofing systems requirements (drawings, specifications, and other contract documents).
   4. Review required submittals, both completed and yet to be completed.
   5. Review and finalize construction schedule related to roofing work and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
   6. Review required inspection, testing, certifying, and material usage accounting procedures.
   7. Review weather and forecasted weather conditions and procedures for coping with unfavorable conditions, including provision of temporary roofing over occupied spaces.
   8. Record discussion of conference, including decisions and agreements (or disagreements) reached, and furnish copy of record to each party attending. If substantial disagreements exist at conclusion of conference, determine how disagreements will be resolved and set date for reconvening conference.
   9. Review notification procedures for weather or non-working days.

1.08 DELIVERY, STORAGE, AND PROTECTION

A. Deliver products to site with seals and labels intact, in manufacturer's original containers, dry and undamaged.

B. Store and handle roofing materials in a dry, well-ventilated, weather-tight place to ensure no possibility of significant moisture exposure. Store rolls of felt and other sheet materials on pallets or other raised surface. Stand all roll materials on end. Cover roll goods with a canvas tarpaulin or other breathable material (not polyethylene).

C. Do not leave unused rolled goods on the roof overnight or when roofing work is not in progress unless protected from weather and other moisture sources.

D. Contractor shall secure all material and equipment on the job site. If material or equipment is stored on the roof, the contractor shall ensure that the integrity of the deck is not compromised at any time. Damage to the deck caused by the contractor will be the sole responsibility of the contractor and will be repaired or replaced at his expense.

1.09 PROJECT CONDITIONS

A. Coordinate roof repair installation with size, location and installation of roof mounted work.

1.10 ENVIRONMENTAL REQUIREMENTS

A. Weather Condition Limitations: Do not apply materials during inclement weather or when a 40% chance of precipitation is expected.

B. Materials shall be stored at room temperature until immediately prior to application when the ambient temperature is 40°F or below. Discontinue the application if the material can not be stored at a temperature which permits even distribution during application.

C. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed during same day.

1.11 WARRANTY

A. Correct defective Work within two year period after Date of Substantial Completion.

B. Provide two year contractor warranty for roof repair.

C. Provide letter from manufacturer with original warranty number and approval of repair work.

PART 2 PRODUCTS

2.01 MATERIALS as Manufactured by The Garland Company 925-784-6701.

A. Base Ply and Base Flashing Ply: Flexbase 80.

B. Field and flashing Cap sheet: Stressply EUV FR Mineral, SBS (Styrene-Butadiene-Styrene) mineral surfaced rubber modified roofing membrane reinforced with a dual fiberglass scrim and polyester mat, ASTM D-6162 Type III Grade G.

C. Asphalt Primer: Garla-Prime VOC - V.O.C. compliant, ASTM D-41.

D. Flashing and Field adhesive: Green-Lock Plus Flashing Adhesive

E. Reinforcing Fabric: Gar-Mesh Fiberglass Mesh

F. Roof coatings

1. Roof field and flashing: Pyramic Plus LO acrylic.

G. Insulation: ½" Densdeck Prime.

H. Insulation fasteners: per roof system manufacturer.

I. Soft Metal Flashings: Green-Weld PVB

1. Adhesive: Green-Lock Structural Adhesive

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrate surfaces to receive roofing system and associated work and conditions under which roofing will be installed. Do not proceed with roofing until unsatisfactory conditions have been corrected in a manner acceptable to Roof System Manufacturer and Installer.

3.02 INSTALLATION

A. Powerwash roof repair area.

B. In repair area, use a torch to burn off existing coating system. Remove coating a minimum of 8" from edge of roof cut to ensure ability to adhere new membrane to existing roof system.

C. Prepare all penetrations to be flashed and where shown on the drawings, with asphalt primer at the rate of one hundred (100) square feet per gallon. Allow primer to dry tack free.

D. Where roofing is removed, mechanically attach coverboard to deck to match height of existing finished roof surface.

E. All plies will be adhered with the following:
1. With mastic at a rate of 4-6 gallons per 100 square feet. The base flashing and the modified membrane will be used as the flashing and nailed off 8" O.C. at all vertical surfaces.

F. Seal perimeter of roof with Green-Lock Flashing. Min. ½" deep at edge.

G. The entire sheet of the base flashing and the flashing membrane must be solidly adhered to the substrate.

H. Seal all vertical laps of flashing membrane with a three-course application of Green-Lock Flashing and fiberglass mesh. Broadcast minerals into 3 course application.

I. Seal junction of flashing membrane and roof with a three-course application of Green-Lock Flashing and mesh. Broadcast minerals into 3 course application.

J. Solar and pipe penetrations and stanchions shall be flashed with Green-Weld PVB per manufacturers installation instructions.

K. Coating work:

1. Apply Pyramic LO at a rate of 1.5 gal per sq. Apply two coats.

2. Coat all flashing all flashing within that area indicated on the roof plan with Pyramic LO.

3.03 INTERFACE WITH OTHER WORK

A. Coordinate with roof accessories, miscellaneous sheet metal accessory items, including piping vents and other devices to be coordinated with the roofing work as specified in other sections to avoid conflict or omission in waterproofing systems and to provide watertight installation.

3.04 FIELD QUALITY CONTROL

A. At completion of roofing installation and associated work, meet with Installer, installer of associated work, Owner, roofing system manufacturer's representative, and other representatives directly concerned with performance of roofing system.

B. Walk roof surface areas of the building, inspect perimeter building edges as well as flashing of roof penetrations, walls, curbs and other equipment. List all items requiring correction or completion and furnish copy of list to each parting attending.

C. The Roofing System Manufacturer reserves the right to request a thermographic scan of the roof during final inspection to determine if any damp or wet materials have been installed. The thermographic scan shall be provided by the Roofing Contractor at a negotiated price.

D. If core cuts verify the presence of damp or wet materials, the Roofing Contractor shall be required to replace the damaged areas at his own expense.

E. Repair or replace (as required) deteriorated or defective work found at time above inspection to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

F. The Contractor is to notify the Owner upon completion of corrections.

G. Following the final inspection, acceptance will be made in writing by the material manufacturer.

3.05 CLEANING and PROTECTION

A. Clean roof and surrounding surfaces.

B. Protect installed work from subsequent construction operations.

C. Do not permit traffic over unprotected roof surface.

END OF SECTION

SECTION 31 22 13 – ROUGH GRADING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes removal of topsoil and cutting, grading, filling, rough contouring, and compacting as indicated on the drawings.

B. Related Sections:
1. Section 31 05 13 - Soils for Earthwork.
2. Section 31 10 00 - Site Clearing.
3. Section 31 23 00 - Excavation and Fill.
4. Section 31 23 16.13 - Trenching.
5. Section 31 23 23.13 - Backfill.
6. Section 32 90 00 – General Planting.

1.2 REFERENCES

A. The provisions of the project Soils Report and any supplements to the Soils Report shall be adhered to for rough grading of the site.

1.3 CLOSEOUT SUBMITTALS

A. Section 01 70 00 - Execution and Closeout Requirements.

B. Project Record Documents: Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Topsoil: as specified in Section 32 90 00 Planting.

B. Other Fill Materials: shall adhere to the provisions of the project Soils Report and any supplements to the Soils Report.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Section 01 06 00 - Regulatory Requirements.

B. Verify site conditions.

C. Verify that survey benchmark and intended elevations for the Work are as indicated.

3.2 PREPARATION

A. Identify required lines, levels, contours, and datum.

B. Stake and flag locations of known utilities.

C. Locate, identify, and protect from damage utilities that are to remain.

D. Notify affected utility companies to remove or relocate public utilities indicated on the plans to be removed or relocated by the utility company.

E. Protect above and below grade utilities that are to remain.

F. Protect plant life, lawns, and other features remaining as a portion of final landscaping.

G. Protect bench marks, survey control point, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.

3.3 SOIL EXCAVATION

A. Excavate soil from areas to be further excavated, relandscaped, or regraded. as shown on the drawings.

B. When excavating through roots, for trees to remain, perform work by hand and cut roots with sharp axe.

C. Remove excess soil from site.

D. Benching Slopes: Horizontally bench existing slopes steeper than 1:4 (vertical:horizontal) to key placed fill material to slope to provide firm bearing as required by the Soils Report and any supplements to the Soils Report. Minimum horizontal bench shall be 2 feet wide.

E. Stability: Replace damaged or displaced subsoil to same requirements as for specified

fill.

3.4 FILLING

A. Install Work in accordance with the project Soils Report and any supplements to the Soils Report.

B. Fill areas to contours and elevations with suitable materials.

C. Place fill material on continuous layers and compact in accordance with the project Soils Report and any supplements to the Soils Report.

D. Maintain optimum moisture content of fill materials to attain required compaction density.

E. Slope grade away from buildings at a minimum slope of two (2%) percent unless noted otherwise.

F. Make grade changes gradual. Blend slope into level areas.

G. Remove surplus fill materials from site.

3.5 TOLERANCES

A. Section 01 40 00 - Quality Control Requirements.

B. Top Surface of Subgrade: Plus or minus 0.05 feet from required elevation on paved or walkway areas and zero (0) feet to minus 0.10 foot in building pad areas.

3.6 FIELD QUALITY CONTROL

A. Testing and inspection shall be provided by the project soils engineer.

B. If tests indicate Work does not meet specified requirements, remove Work, replace and retest at the Contractor's sole expense.

END OF SECTION 31 22 13

SECTION 31 23 00 – EXCAVATION AND FILL

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes excavating for building foundations, roads, parking areas, site grading, slabs-on-grade, landscaping areas, and for site structures.

B. Related Sections:
1. Section 31 05 13 – Soils for Earthwork.
2. Section 31 22 13 - Rough Grading.
3. Section 31 23 16.13 - Trenching.
4. Section 31 23 23.13 - Backfill.

1.2 REFERENCES

A. The project Soils Report and any supplements to the Soils Report.

B. Local utility standards when working within 24 inches of the respective utility lines.

PART 2 - PRODUCTS

A. Bio-Retention Soils

1. Permeable Class II Aggregate Base or crushed drain rock.

2. Planting soil is 60% sand, 40% compost mix allowing 5”/hour percolation.

PART 3 - EXECUTION

3.1 PREPARATION

A. Identify required lines, levels, contours, and datum locations.

3.2 EXCAVATING

A. Underpin adjacent structures which may be damaged by excavating work.

B. Excavate subsoil to accommodate building foundations, slabs-on-grade, paving and site structures.

C. Compact disturbed load bearing soil in direct contact with foundations to original bearing capacity; perform compaction in accordance with Section 31 23 23.13 and 31 23 16.13.

D. Slope banks with machine to angle of repose or less until shored.

E. Do not interfere with 45 degree bearing splay of foundations.

F. Grade top perimeter of excavating to prevent surface water from draining into excavation.

G. Hand trim excavation. Remove loose matter.

H. Remove lumped subsoil, boulders, and rock in accordance with the provisions of the Soils Report and any supplements to the Soils Report.

I. Notify Architect/Engineer of unexpected subsurface conditions and discontinue affected Work in area until notified to resume Work.

J. Correct areas over excavated with backfill and compact replacement as specified for authorized excavation.

K. Remove excess excavated material from site.

3.3 FIELD QUALITY CONTROL

A. The project Soils Engineer shall provide testing and inspection services.

3.4 PROTECTION

A. Prevent displacement or loose soil from falling into excavation; maintain soil stability.

B. Protect structures, utilities and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth operations.

END OF SECTION 31 23 00

SECTION 31 23 16.13 - TRENCHING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes excavating trenches for utilities from outside building to final connection point or public right-of-way or utility; compacted fill from top of utility bedding to subgrade elevations; and backfilling and compaction.

B. Related Sections:
1. Section 31 05 13 – Soils for Earthwork.
2. Section 31 22 13 - Rough Grading.
3. Section 31 23 00 - Excavation and Fill.
4. Section 31 23 23.13 - Backfill.
5. Section 32 96 00 – Landscape Planting.
6. Section 33 30 00 – Sanitary Sewerage Utilities.
7. Section 33 40 00 – Storm Drainage Utilities.
8. Section 03 30 00 – Cast-in-Place Concrete.

1.2 REFERENCES

A. The project Soils Report and any supplements to the Soils Report.

1.3 DEFINITIONS

A. Utility: Any buried pipe, duct, conduit, or cable.

1.4 FIELD MEASUREMENTS

A. Verify field measurements prior to fabrication.

1.5 COORDINATION

A. Section 01 06 00 - Regulatory Requirements.

B. Verify Work associated with lower elevation utilities is complete before placing higher elevation utilities.

C. Verify elevations of existing facilities prior to placing new Work.

PART 2 - PRODUCTS

2.1 FILL MATERIALS

A. Fill and Structural Fill shall be: As specified in the project Soils Report and any supplements to the Soils Report.

2.2 ACCESSORIES

A. Filter Fabric: Non-biodegradable, woven as manufactured by TC Mirafi, Tenax Corp., Tensar Earth Technologies, Inc. or equal.

PART 3 - EXECUTION

3.1 LINES AND GRADES

A. Grades
1. Pipes shall be laid true to the lines and grades indicated.
2. The grade alignment of the pipe shall be maintained by the use of a string line parallel with the grade line and vertically above the centerline of the pipe. This line shall be established on level batter boards at intervals of not more than 25 feet. Batter boards shall span the trench and be rigidly anchored to substantial posts driven into the ground on each side of the trench. Three adjacent batter boards must be set before laying pipe to provide a check on the grades and line. Elevation and position of the string line shall be determined from the elevation and position of offset points or stakes located along the pipe route. Pipe shall not be laid using side lines for line or grade.
3. As an alternative means of establishing alignment and grade, a "Laser-Beam" instrument may be utilized with a competent operator.

B. Location of Pipe Lines:
1. The location and approximate depths of the proposed pipe lines are shown on the Drawings.
2. An underground locate service shall be enlisted to discover the location of existing utilities regardless if they are shown on the drawings.
3. The Architect/Engineer reserves the right to make changes in lines, grades, and depths of pipe lines and manholes when such changes are necessary.

3.2 PREPARATION

A. Identify required lines, levels, contours, and datum locations.

B. Protect plant life, lawns, and other features remaining as a portion of final landscaping.

C. Protect bench marks, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.

D. Maintain and protect above and below grade utilities which are to remain.

E. Cut out soft areas of subgrade not capable of compaction in place. Backfill and compact to density equal to or greater than requirements for subsequent backfill material.

3.3 EXCAVATING

A. Excavate subsoil required for utilities.

B. Cut trenches sufficiently wide to enable installation and allow inspection. Remove water or materials that interfere with Work.

C. Do not interfere with 45 degree bearing splay of foundations.

D. Hand trim excavation. Hand trim for bell and spigot pipe joints. Remove loose matter.

E. Remove lumped subsoil, boulders, and rock as directed by the Soils Engineer or other inspector.

F. Correct over excavated areas with backfill and compact replacement as specified for authorized excavation.

G. Stockpile excavated material on site. Remove excess material not being used from site.

3.4 TRENCHING

A. Excavations:
1. Excavation shall be dug so that the pipe can be laid and jointed properly. The trench shall be made so that the pipe can be laid to the alignment and depth as shown on the Drawings, and it shall be excavated only so far in advance of pipe laying as permitted by the Architect/Engineer. The excavation shall not be more than two feet wider at the bottom than the outside diameter of the pipe or structure. If there is no interference with construction, or adjacent property, and if soil permits, the Contractor at his own expense shall be permitted to slope the side walls of the excavation starting at a point two (2) feet above the top of pipe.
2. The trench shall be excavated to the depth required so as to provide a uniform and continuous bearing and support for the pipe on bedding material at every

point between joints, except where pipe slings or other lifting tackle are withdrawn.

3. Excavation Below Grade:
   1) Where excavation indicates that the subsurface materials at the bottom of the trench are in a loose or soft state, the Contractor shall be advised to excavate to a depth where suitable material is encountered, as directed by the Architect/Engineer.
   2) Where the bottom of the trench has been excavated by mistake to a greater depth than required, the Contractor shall refill this area using approved material. No additional compensation shall be given to the Contractor. Refilling with earth to bring the bottom of the trench to the proper grade will not be permitted.
4. Excavation within 24 inches of existing utilities shall be governed by specifications of the Owner of the respective utility. The Contractor shall obtain these specifications and follow the same at no extra cost.
5. Excavation and shoring shall adhere to the requirements and safety standards set by OSHA.

B. Trenching in Advance of Pipe Laying: The trench for the pipe lines shall not be opened for a distance of more than 200 feet at any one time, unless authorized by the Architect/Engineer. At no time will the Contractor be permitted to leave more than 50 feet of trench open at the end of a working day. Adequate protection of open trench shall be provided by the Contractor and the Contractor shall be responsible therefore.

3.5 SHEETING AND BRACING

A. General:
1. Sheeting and bracing of all excavations shall conform to the latest statutes of the State of California governing safety of workers in the construction industry. When necessary, in the opinion of the Contractor, adequate sheeting and bracing shall be installed to prevent ground movement that may cause damage or settlement to adjacent structures, pipelines and utilities. Any damage due to settlement because of failure to use sheeting or because of inadequate bracing, or through negligence or fault of the Contractor in any other manner, shall be repaired at the Contractor's expense.
2. Sides of trenches in unsuitable, loose or soft material, five feet or more in depth, shall be shored, sheeted, braced, sloped, or otherwise supported by means of sufficient strength to protect employees working within them.

B. Sheeting Requirements:
1. Where excavations are made with vertical sides which require supporting, the sheeting and bracing shall be of sufficient strength to sustain the sides of the excavations and to prevent movement which could in any way injure the Work,

or adjacent structures, or diminish the working space sufficiently to delay the Work. Special precautions shall be taken where there is additional pressure due to the presence of other structures.

2. It shall be the Contractor's responsibility to select sheeting and bracing of sufficient dimensions and strength and type to adequately support the sides of trenches and excavations.
3. Sheeting and bracing shall be removed before the completion of the Work.

3.6 BACKFILLING

A. Backfill trenches to contours and elevations shown on the drawings.

B. Systematically backfill to allow maximum time for natural settlement. Do not backfill over porous, wet, or spongy subgrade surfaces.

C. Fill materials shall be as specified in the Soils Report and any supplements to the Soils Report.

D. Employ a placement method that does not disturb or damage utilities in trench. Jetting of backfill materials to achieve compaction shall not be permitted.

E. Maintain optimum moisture content of fill materials to attain required compaction density.

F. Remove surplus fill materials from site.

3.7 TOLERANCES

A. Section 01 40 00 - Quality Requirements.

B. Top Surface of Backfilling Under Paved Areas: Plus or minus 0.05 feet from required elevations.

C. Top Surface of General Backfilling: Plus or minus 1/10 feet from required elevations.

3.8 FIELD QUALITY CONTROL

A. Compaction testing will be performed by the project Soils Engineer.

B. If tests indicate Work does not meet specified requirements, remove Work, replace, compact, and retest.

3.9 PROTECTION OF FINISHED WORK

A. Section 01 70 00 - Execution and Closeout Requirements.

B. Reshape and re-compact fills subjected to vehicular traffic during construction.

END OF SECTION 31 23 16 13

SECTION 31 23 23.13 - BACKFILL

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes building perimeter and site structure, filling and backfilling to subgrade elevations; fill under slabs-on-grade, paving; fill for over-excavation; consolidation and compaction as specified in the Soils Report and any supplements to the Soils Report.

B. Related Sections:
   1. Section 31 05 13 – Soils for Earthwork.
   2. Section 31 23 00 - Excavation and Fill.
   3. Section 31 23 16.13 - Trenching.
   4. Section 32 96 00 – Landscape Planting.
   5. Section 03 30 00 - Cast-in-Place Concrete.

1.2 REFERENCES

A. The project Soils Report and any supplements to the Soils Report.

PART 2 - PRODUCTS

1.3 FILL MATERIALS

A. Fill and Structural Fill as specified in the Soils Report and any supplements to the Soils Report.

1.4 ACCESSORIES

A. Geotextile Fabric: Non-biodegradable, woven as manufactured by TC Mirafi, Tensar Earth Technologies, Inc. or equal.

PART 2 - EXECUTION

1.5 EXAMINATION

A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.

B. Verify subdrainage, dampproofing, or waterproofing installation has been inspected.

C. Verify structural ability of unsupported walls to support loads imposed by the fill.

1.6 PREPARATION

A. Compact subgrade to density requirements for subsequent backfill materials.

B. Cut out soft areas of subgrade not capable of compaction in place. Backfill and compact to density equal to or greater than requirements for subsequent fill material.

C. Roll subgrade surface to identify soft spots; fill and compact to density equal to or greater than requirements for subsequent fill material.

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1.7 BACKFILLING

A. Backfill areas to contours and elevations shown on drawings.

B. Employ a placement method that does not disturb or damage other work.

C. Maintain optimum moisture content of backfill materials to attain required compaction density.

D. Backfill against supported walls and structures. Do not backfill against unsupported walls or structures.

E. Backfill simultaneously on each side of unsupported walls and structures until supports are in place.

F. Slope grade away from building at a minimum slope of two (2%) percent, unless noted otherwise.

G. Make gradual grade changes. Blend slope into level areas.

H. Remove surplus backfill materials from site.

1.8 TOLERANCES

A. Section 01 40 00 - Quality Requirements.

B. Top Surface of Backfilling Under Paved Areas: Plus or minus 0.05 feet from required

elevations.

C. Top Surface of General Backfilling: Plus or minus 1/10 feet from required elevations.

1.9 FIELD QUALITY CONTROL

A. The project Soils Engineer shall provide testing and inspection services.

1.10 PROTECTION OF FINISHED WORK

A. Section 01 70 00 - Execution and Closeout Requirements.

B. Reshape and re-compact fills subjected to vehicular traffic.

END OF SECTION 31 23 23.13

SECTION 32 11 23 - AGGREGATE BASE COURSE

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes aggregate base course.

B. Related Sections:
1. Section 31 05 13 - Soils for Earthwork.
2. Section 31 22 13 - Rough Grading.
3. Section 31 23 23.13 - Backfill.
4. Section 31 23 16.13 - Trenching.
5. Section 32 12 16 - Asphalt Pavement.
6. Section 32 13 13 - Concrete Paving.
7. Section 33 49 13 - Storm Drainage Manholes, Frames, and Covers.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Class II Aggregate Base per Caltrans Standard Specifications, or Local Municipality.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.

B. Verify substrate has been inspected, gradients and elevations are correct, and is dry.

3.2 PREPARATION

A. Correct irregularities in substrate gradient and elevation by scarifying, reshaping, and re-compacting.

B. Do not place fill on soft, muddy, or frozen surfaces.

3.3 AGGREGATE PLACEMENT

A. Place aggregate in maximum 6-inch layers and compact to specified density.

B. Level and contour surfaces to elevations and gradients indicated.

C. Add small quantities of fine aggregate to coarse aggregate as appropriate to assist compaction.

D. Add water to assist compaction. If excess water is apparent, remove aggregate and aerate to reduce moisture content.

E. Use mechanical tamping equipment in areas inaccessible to compaction equipment.

3.4 TOLERANCES

A. Section 01 40 00 - Quality Requirements: Tolerances.

B. Flatness: Maximum variation of 1/4 inch measured with 10-foot straight edge.

C. Scheduled Compacted Thickness: Within 1/4 inch.

D. Variation From Design Elevation: Within 1/2 inch.

3.5 FIELD QUALITY CONTROL

A. Section 01 40 00 - Quality Requirements: Testing and inspection services.

B. Compaction testing will be performed in accordance with ASTM D1557.

C. If tests indicate Work does not meet specified requirements, remove Work, replace and retest at no cost to owner.

END OF SECTION 32 11 23

SECTION 32 12 16 - ASPHALT PAVEMENT

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes asphaltic concrete paving, wearing, binder and base course; surface sealer; and aggregate base course.

B. Related Sections:
1. Section 31 05 13 - Soils for Earthwork.
2. Section 31 22 13 - Rough Grading: Preparation of site for paving and base.
3. Section 31 23 23.13 - Backfill: Compacted subbase for paving.
4. Section 32 11 23 - Aggregate Base Course.
5. Section 33 49 13 - Storm Drainage Manholes, Frames, and Covers.

1.2 REFERENCES

A. ASTM D946 - Penetration-Graded Asphalt Cement for Use in Pavement Construction.

B. ASTM D3381 - Viscosity Graded Asphalt Cement for Use in Pavement Construction.

C. TAI - (The Asphalt Institute) - MS-2 Mix Design Methods for Asphalt Concrete and Other Hot Mix Types.

D. TAI - (The Asphalt Institute) - MS-3 Asphalt Plant Manual.

E. TAI - (The Asphalt Institute) - MS-8 Asphalt Paving Manual.

F. TAI - (The Asphalt Institute) - MS-19 Basic Asphalt Emulsion Manual.

G. Caltrans Standard Specifications, 2010 Edition, Section 39.

1.3 SUBMITTALS

A. Product Data: Submit product information and mix design.

1.4 QUALITY ASSURANCE

A. Perform Work in accordance with Caltrans Standard Specifications.

B. Mixing Plant: Conform to Caltrans Standard Specifications.

C. Obtain materials from same source throughout.

D. Maintain one copy of each document on site.

1.5 ENVIRONMENTAL REQUIREMENTS

A. Section 01 63 10 - Product Requirements.

B. Do not place asphalt when ambient air or base surface temperature is less than 40 degrees F, or surface is wet or frozen.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Asphalt Pavement: In accordance with Caltrans Standard Specifications.

2.2 SOURCE QUALITY CONTROL AND TESTS

A. Section 01 40 00 - Quality Control: Testing and Inspection Services: Provide mix design for asphalt.

B. Submit proposed mix design for review prior to beginning of Work.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Section 01 06 00 - Administrative Requirements: Coordination and project conditions.

B. Verify compacted granular base is dry and ready to support paving and imposed loads.

C. Verify gradients and elevations of base are correct.

3.2 SUBBASE

A. Section 32 11 23 - Aggregate Base Course forms the base construction for Work of this section.

3.3 PREPARATION - PRIMER

A. Apply primer in accordance with Caltrans Standard Specifications.

3.4 PREPARATION - TACK COAT

A. Apply tack coat in accordance with Caltrans Standard Specifications.

B. Apply tack coat to contact surfaces of curbs and gutters.

C. Coat surfaces of manhole and catch basin frames with oil to prevent bond with asphalt pavement. Do not tack coat these surfaces.

3.5 PLACING ASPHALT PAVEMENT - SINGLE COURSE

A. Install Work in accordance with Caltrans Standard Specifications.

3.6 PLACING FOG SEAL

3.7 CURBS

A. Install extruded asphalt curbs of profile as indicated on drawings.

3.8 TOLERANCES

A. Section 01 40 00 - Quality Requirements: Tolerances.

B. Flatness: Maximum variation of 1/4 inch measured with 10-foot straight edge.

C. Scheduled Compacted Thickness: Within 1/4 inch.

D. Variation from True Elevation: Within 1/2 inch.

3.9 FIELD QUALITY CONTROL

A. Section 01 40 00 - Quality Requirements: Testing and inspection services
Section 01 70 00 - Execution and Closeout Requirements: Testing, adjusting, and balancing.

3.10 PROTECTION OF FINISHED WORK

A. Section 01 70 00 - Execution and Closeout Requirements: Protecting finished work.

B. Immediately after placement, protect pavement from mechanical injury for 24 hours or until surface temperature is less than 140 degrees F.

3.11 SCHEDULES

A. Pavement sections for various locations and uses are to be as shown on the drawings.

END OF SECTION 32 12 16

SECTION 32 12 36 - SLURRY SEAL EXISTING ASPHALT PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

B. All grading, earthwork, excavations, backfills, compaction, and other grading operations shall be accomplished in accordance with the soils report (which shall be part of the Contract Documents). Contractor shall be responsible for securing a copy of the soils report. The project soils engineer shall be present during all grading operations. The soils engineer shall direct samples to be submitted and tests to be taken. Contractor shall cooperate with the requirements of the soils engineer.

1.2 DESCRIPTION OF WORK:

A. Extent of asphalt slurry work is shown on drawings.

1.3 SUBMITTALS:

A. Material Certificates: Provide copies of materials certificates signed by material producer and Contractor, certifying that each material item complies with, or exceeds, specified requirements.

1.4 SITE CONDITIONS:

A. Weather Limitations: Do not apply when base is wet or contains an excess of moisture.

PART 2 - PRODUCTS

2.1 MATERIALS:

A. General: Use locally available materials and gradations which exhibit a satisfactory record of previous installations.

B. OverKote Seal: Asphalt pavement coating as manufactured by Reed & Graham, Inc. or approved equal.

C. OverKote Crackfiller as manufactured by Reed & Graham, Inc. or approved equal.

D. OverKote Oil Spot Sealer as manufactured by Reed & Graham, Inc. or approved equal.

E. 30 Mesh Sand

PART 3 - EXECUTION

3.1 CRACK FILLING AND SURFACE PREPARATION:

A. Cracks 1/8" or larger shall be cleaned and filled to a level surface with OverKote Crackfiller. A "V" shaped squeegee is recommended for this application. Mix and apply per manufacturer recommendations.

B. All areas to be sealed shall be thoroughly cleaned. Dirt, loose pieces and other obstructions in joints or cracks shall be removed with an air jet and/or pressurized water.

C. Excessive oil spots shall be removed with a scraper, stiff brush and detergent. OverKote Oil Spot Sealer shall be applied to prepared oil spots.

D. In exceptionally hot weather, dampen the surface with water. Remove any excess water to leave the surface only slightly damp.

3.2 SLURRY SEAL APPLICATION –OverKote Asphalt Paving Coating

A. Prior to bidding, consult manufacturer for recommendations on mix and number of applications required to result in a smooth and uniform surface for this application. A minimum of two applications shall be required, more if necessary.

B. Depending on the surface, one or more applications may be required at the rate of 25 to 35 gallons per 1,000 square feet of surface area. The surface shall be smooth and uniform upon completion. For excessively rough areas, add 2 to 3 pounds of 30 mesh sand per gallon of OverKote Sealer. Additional sand may be added per custom specification request.

C. Apply OverKote slurry seal to surface course in accordance with manufacturer recommendations. Spread immediately by machine, squeegee, stiff plastic bristle or

soft hair push broom. Spread poured parallel lines by pulling material at an angle toward operator. Tools shall be wet before using. Repeat as necessary to spread sealer uniformly, eliminating all laps and ridges. Apply 2nd coat as soon as first coat is dry.

D. A second application shall be made after first coat has dried to the touch. When sand is added to the first seal coat, two additional coats without extra sand shall be applied.

E. Protect from trespass until sealed area is dry.

F. Allow slurry seal to dry before permitting traffic or striping.

3.3 FIELD QUALITY CONTROL:

A. Contractor shall obtain approval of surface preparation from Owner's Representative prior to application of slurry seal.

B. Contractor shall obtain approval of slurry seal application finish surfaces from Owner's Representative prior to completion and prior to striping.

END OF SECTION 32 12 36

SECTION 32 13 13 - CONCRETE PAVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes concrete sidewalks, integral curbs, gutters, parking areas, driveways, and roads, and aggregate base course.

B. Related Sections:
1. Section 31 22 13 - Rough Grading.
2. Section 31 23 23.13 - Backfill.
3. Section 32 11 23 - Aggregate Base Course.
4. Section 32 96 00 – Landscape Planting.
5. Section 33 49 13 - Storm Drainage Manholes, Frames, and Covers.

1.2 REFERENCES

A. ACI 304 (American Concrete Institute) - Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete.

B. ASTM A185 - Welded Steel Wire Fabric for Concrete Reinforcement.

C. ASTM A497 - Welded Deformed Steel Wire Fabric for Concrete Reinforcement.

D. ASTM A615 - DeformeM and Plain Billet-Steel for Concrete Reinforcement.

E. ASTM C33 - Concrete Aggregates.

F. ASTM C94 - Ready Mix Concrete.

G. ASTM C150 - Portland Cement

H. ASTM C260 - Air-Entraining Admixtures for Concrete.

I. ASTM C309 - Liquid Membrane-Forming Compounds for Curing Concrete.

J. ASTM C494 - Chemical Admixtures for Concrete.

K. ASTM D1751 - Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction.

L. ASTM D1752 - Preformed Sponge Rubber and Cork Expansion Joint Fillers for Concrete Paving and Structural Construction.

1.3 QUALITY ASSURANCE

A. Perform Work in accordance with requirements of Local Municipality.

B. Maintain one copy of each document on site.

C. Obtain cementitious materials from same source throughout.

1.4 ENVIRONMENTAL REQUIREMENTS

A. Section 01 60 00 - Product Requirements.

B. Do not place concrete when base surface temperature is less than 40 degrees, or surface is wet or frozen.

PART 2 - PRODUCTS

2.1 FORM MATERIALS

A. Wood or Steel form material, profiled to suit conditions.

B. Joint Filler: ASTM D1751.

2.2 REINFORCEMENT

A. Reinforcing Steel: ASTM A615; Grade 60 deformed billet steel bars; unfinished.

B. Welded Steel Wire Fabric: Plain type, ASTM A185 in flat sheets or coiled rolls; unfinished.

C. Dowels: ASTM A615; plain steel, unfinished.

2.3 CONCRETE MATERIALS

A. Concrete Materials: As specified in Section 03 30 00. Provide in accordance with local municipality Public Work's standards.

B. Fly Ash content per local Municipality Public Work's Standards.

2.4 CONCRETE MIX - BY PERFORMANCE CRITERIA

A. Provide concrete to the following criteria:
1. Compressive Strength: 3000 psi @ 28 days.

PART3 - EXECUTION

3.1 EXAMINATION

A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.

B. Verify compacted subgrade or granular base is acceptable and ready to support paving and imposed loads.

C. Verify gradients and elevations of base are correct.

3.2 SUBBASE

A. Section 32 11 23 - Aggregate Base Course forms the base construction for Work of this section.

3.3 PREPARATION

A. Moisten base to minimize absorption of water from fresh concrete.

B. Coat surfaces of manhole and catch basin frames with oil to prevent bond with concrete pavement.

C. Notify Architect/Engineer minimum 24 hours prior to commencement of concreting operations.

3.4 FORMING

A. Place and secure forms to correct location, dimension, profile, and gradient.

B. Assemble formwork to permit easy stripping and dismantling without damaging concrete.

C. Place joint filler vertical in position, in straight lines. Secure to formwork during

concrete placement.

3.5 REINFORCEMENT

A. Place reinforcement as indicated on drawings.

B. Interrupt reinforcement at expansion joints.

C. Place reinforcement to achieve pavement and curb alignment as detailed.

3.6 PLACING CONCRETE

A. Place concrete in accordance with local municipality Public Work's standards.

B. Ensure reinforcement, inserts, embedded parts, formed joints and are not disturbed during concrete placement.

C. Place concrete continuously over the full width of the panel and between predetermined construction joints.

D. Place concrete to pattern indicated on drawings.

3.7 JOINTS

A. Place expansion and contraction joints as shown on drawings. Align curb, gutter, and sidewalk joints.

B. Place joint filler between paving components and building or other appurtenances. Recess top of filler 1/4 inch for sealant placement.

C. Provide scored sawn joints as indicated on drawings and between sidewalks and curbs.

3.8 EXPOSED AGGREGATE

A. See Landscape Drawings and Specifications.

3.9 FINISHING

A. Sidewalk Paving: Light broom perpendicular to path of travel and trowel joint edges.

B. Curbs and Gutters: Light broom in direction of flow.

C. Direction of Texturing: Transverse to pavement direction.

D. Inclined Vehicular Ramps: Broomed perpendicular to slope.

E. Place curing compound on exposed concrete surfaces immediately after finishing.

3.10 JOINT SEALING

A. Separate pavement from vertical surfaces with thick joint filler.

B. Place joint filler in pavement pattern placement sequence. Set top to required elevations. Secure to resist movement by wet concrete.

C. Extend joint filler from bottom of pavement to within 1/8 inch of finished surface. Conform to joint sealer manufacturer requirements.

3.11 TOLERANCES

A. Section 01 40 00 - Quality Requirements: Tolerances.

B. Maximum Variation of Surface Flatness: 1/4 inch in 10 feet.

C. Maximum Variation From True Position: 1/2 inch.

3.12 FIELD QUALITY CONTROL

A. Section 01 40 00 - Quality Requirements: Testing and inspection services
Section 01 70 00 - Execution and Closeout Requirements: Testing, adjusting, and balancing.

B. Testing firm will take cylinders and perform slump [and air entrainment] tests in accordance with ACI 301.

C. One slump test will be taken for each set of test cylinders taken.

D. Maintain records of placed concrete items. Record date, location of pour, quantity, air temperature, and test samples taken.

3.13 PROTECTION

A. Immediately after placement, protect pavement from premature drying, excessive hot or cold temperatures, and mechanical injury.

B. Do not permit pedestrian or vehicular traffic over pavement for 7days minimum after finishing.

END OF SECTION 32 13 13

SECTION 32 17 00 - PAVEMENT SPECIALTIES

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Parking lot striping.
B. Disabled loading zone striping and disabled parking symbol.
C. Traffic symbols.
D. Curb painting.
E. Traffic and parking control signage.
F. Sport Court striping.

1.2 RELATED SECTIONS

A. Section 32 12 16 - Asphalt Pavement.
B. Section 32 13 13 - Concrete Paving.
C. Section 10 14 00 - Signage.

1.3 QUALITY ASSURANCE

A. Materials and work of this section shall conform with Local Municipality Public Works standards and specifications.

1.4 REGULATORY REQUIREMENTS

A. Conform to regulations of Bay Area Air Quality Management District and California Air Resources Board regarding use of paint.

1.5 ENVIRONMENTAL REQUIREMENTS

A. Do no painting when surface and air temperatures are below 40 degrees F or below those temperatures recommended by the paint manufacturer.

PART 2 - PRODUCTS

2.1 STANDARD CATALOG PRODUCTS

A. Symbol Marking Paint and Traffic Marking Paint: Water borne product conforming to State Specification 8010-426-30; Dunn-Edwards Traffic Paint W801, Sinclair 160

Vinyl Traffic Paint, or equal product.

1. ISA Symbol Background: Color - Blue. Size: As indicated in the drawings.

2. Parking Stall Striping, Traffic Symbols and Disabled Loading Zone Striping and Lettering: Color - White. Width for all striping: Three inches, or as indicated in the drawings. Blue border around access aisle.

3. Disabled Stall Curbs: Color - Blue. Width for all striping: Three inches, or as indicated in the drawings.

4. Sport Court Striping: Color - White.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine receiving surfaces and verify that surfaces are proper for installation.

B. Do not start work until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Remove dirt, oil, grease, and other foreign matter from the areas of the pavement and curbs to be painted.

B. Do not apply traffic paint to surfaces which are excessively dirty, damp, and cold.

3.3 INSTALLATION

A. Apply parking lot as a 4 inch wide solid line. Apply loading zone striping as 8 inch wide solid line.

B. Stripe parking stalls to the dimensions as shown on the Drawings; traffic symbols shall be as shown. Stripe loading zone to dimensions shown on Drawings.

C. Paint the ISA parking symbol in each accessible parking stall as indicated on the Drawings and in accordance with the American National Standard Institute Figure A117.1.

D. Paint horizontal and vertical face of curbs abutting accessible parking stalls. See Drawings for extent of painted curbs.

E. Apply traffic paint with atomizing spray type striping machine equipped with separate thermostatically controlled heating devices for each paint pot and capable of applying paint whereby the lines and markings have clear-cut edges, true and smooth alignments and uniform thicknesses.

F. Apply paint with completed lines and marking clean, sharp and to dimensions.

1. Ragged ends of segments, fogginess along the sides or objectionable dribbling of paint along the unpainted portions of the strips will not be permitted.

2. The finished paint shall have an opaque, well painted appearance with no black or other discolorations showing through.

G. Set posts for parking sign plumb in minimum 12 inch diameter concrete footings with top of footing 6 inches below finished grade and bottom of footing minimum 36 inches below finished grade. Slope top of concrete for water runoff. Cap top of pipe.

H. Secure signs to posts with saddles and vandal-proof nuts.

I. Install parking control signs with bottom of upper sign 60 inches above finished grade. Install accessible parking signs with bottom of upper sign 80 inches above finished grade. Install lower signs in two sign assemblies with top within 1 inch of bottom of upper sign.

3.4 PROTECTION

A. Exercise reasonable precautions to protect the paint, as applied, during drying time. Remove objectionable tracking.

END OF SECTION 32 17 00

LEGEND

- TREE TO REMAIN – PROTECT FROM DAMAGE. SEE LANDSCAPE SPECIFICATIONS AND DRAWINGS FOR TREE PROTECTION NOTES
- CANOPY/POST/FOUNDATIONS TO BE REMOVED SEE ARCHITECTS DRAWING A1.01 FOR REMOVAL OF (E) CANOPY STRUCTURES
- X — TREE TO BE REMOVED REMOVE ALL ROOTS
- (1) — ASPHALT PAVING & AGGREGATE BASE ROCK TO BE REMOVED, REMOVE HEADER BOARD TYP.
- (2) — CONCRETE TO BE REMOVED, REMOVE AGGREGATE BASE
- (3) — SHRUBS AND/OR LANDSCAPING TO BE REMOVED. GRUB OUT ALL VEGETATION/ REMOVE BARK OR WOOD CHIPS. REMOVE PLANTER BOXES. REMOVE ANY IRRIGATION LINES OR VALVES.
- (4) —x—x—x— FENCE/GATES/FOUNDATIONS TO BE REMOVED

[1] SAWCUT ASPHALT OR REMOVE CONCRETE TO NEAREST CONTROL JOINT

[2] REMOVE & REINSTALL PARKING BUMPER

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 LANDSCAPE ARCHITECT PLANS, ARCHITECTURAL PLANS, AND THE CONSTRUCTION DOCUMENTS FOR A COMPLETE SCOPE OF WORK. (VERIFY ALL DEMOLITION WITH THE SCHOOL DISTRICT).

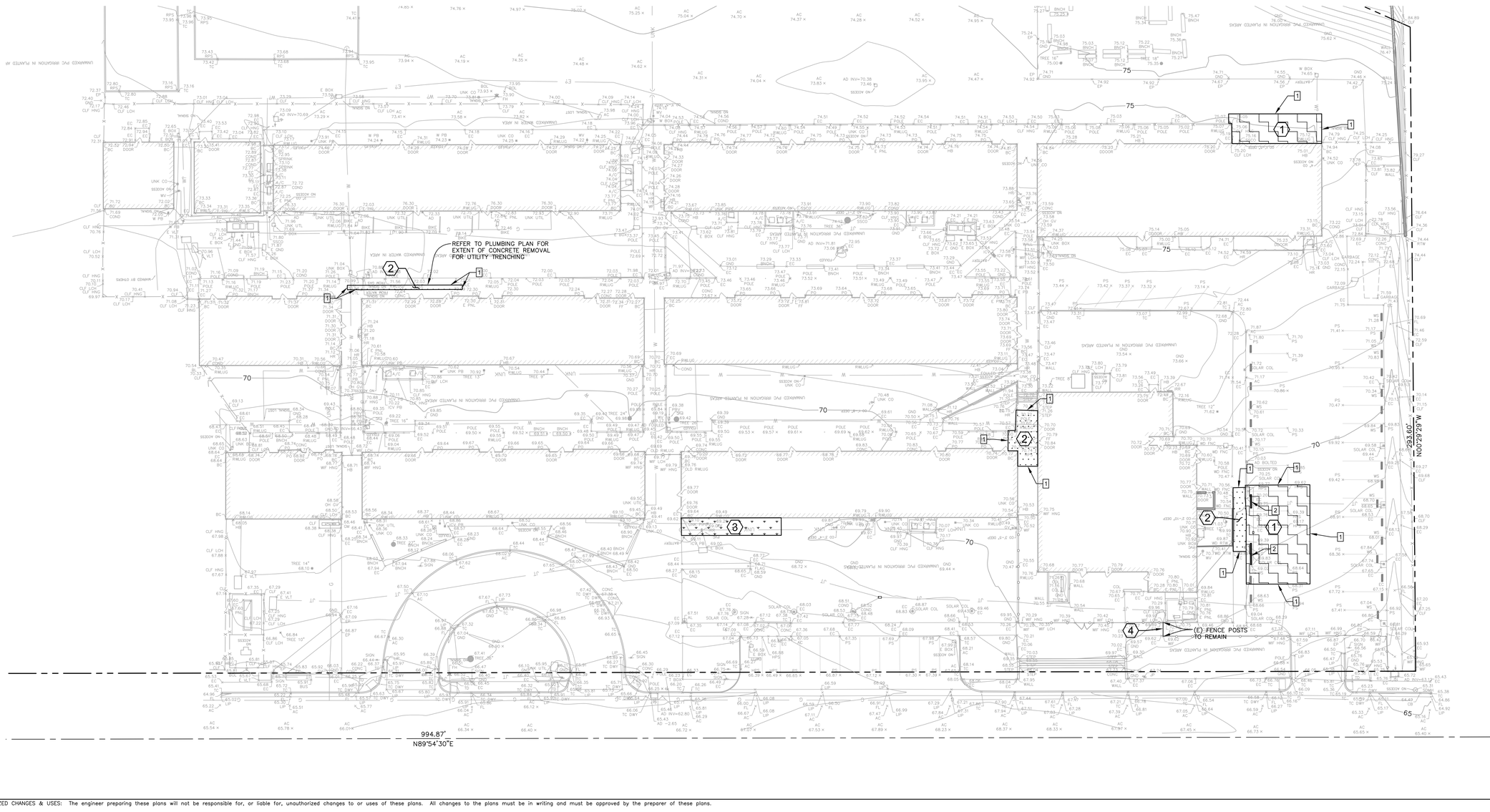
2. DEMOLITION WORK SHALL CONFORM TO CAL GREEN CODE SECTIONS 5.408.3 (CONSTRUCTION WASTE REDUCTION BY AT LEAST 50%) AND 5.408. 4 (EXCAVATED SOIL AND LAND CLEARING DEBRIS), AND LOCAL CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS. THE MOST STRINGENT CODE SHALL PREVAIL.

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



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20 0 20 40

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

AGENCY APPROVAL DSA# XX-XXXXXXXXX

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

CARROLL ENGINEERING engineers and surveyors
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PROFESSIONAL STAMP

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

REVISIONS

1		

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

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE

DEMOLITION PLAN

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.

1-C1.1

DATE: February 19, 2024

CONSTRUCTION DOCUMENTS

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

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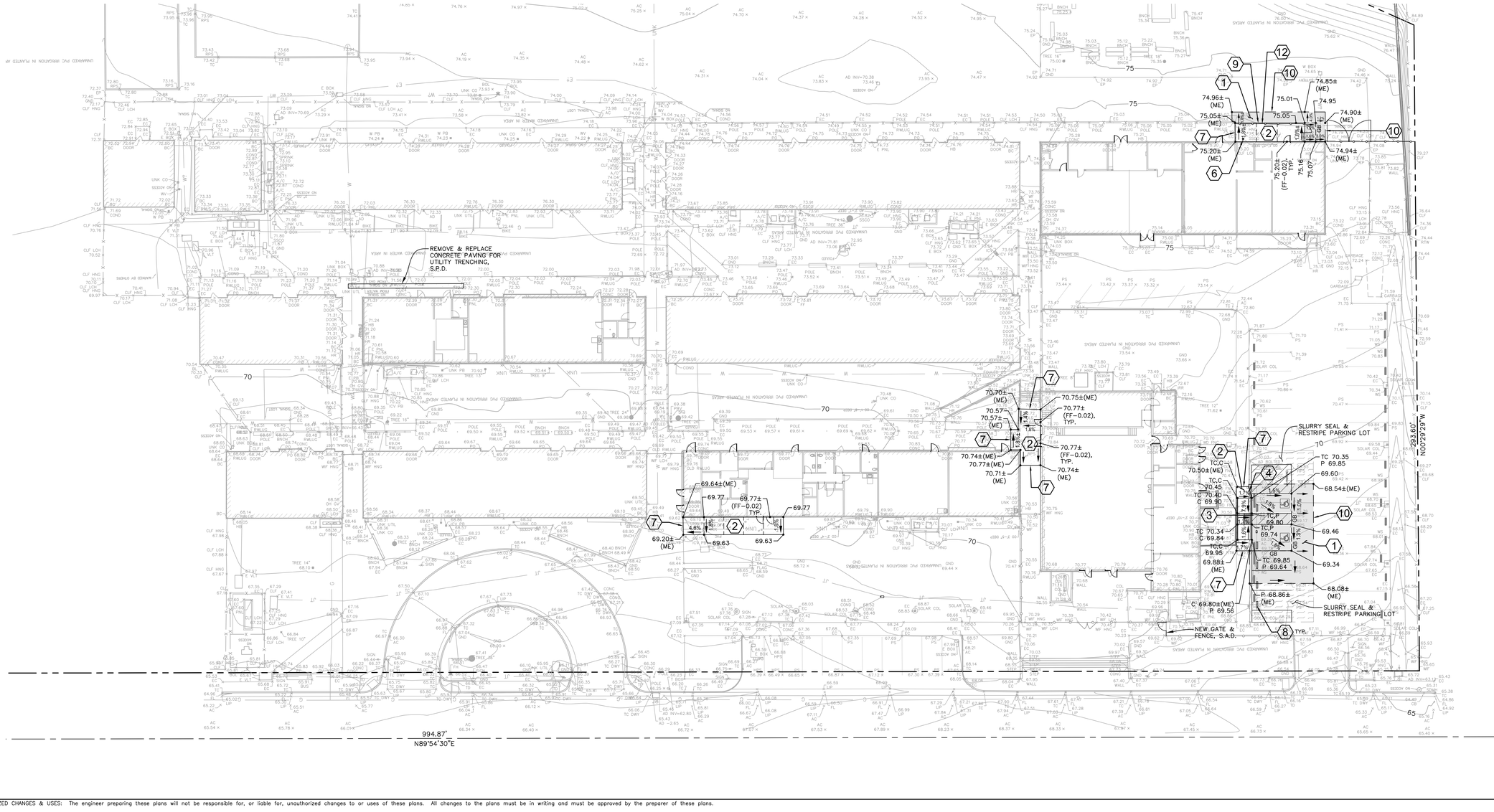
UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

GRADING CONSTRUCTION DETAIL REFERENCES
SEE SHEET 1C3.1

1. AC PAVEMENT SECTION PER DETAIL 1 / 1C3.1
2. CONCRETE PAVING SECTION PER DETAIL 2 / 1C3.1
3. CURB RAMP SECTION PER DETAIL 3 / 1C3.1
4. VERTICAL CURB SECTION PER DETAIL 4 / 1C3.1
5. TRUNCATED DOME SECTION PER DETAIL 5 / 1C3.1
6. STORM DRAIN CLEANOUT PER DETAIL 6 / 1C3.1
7. CONCRETE PAVING CONFORM SECTION PER DETAIL 7 / 1C3.1
8. PARKING BUMPER SECTION PER DETAIL 8/ 1C3.1
9. CONCRETE TO ASPHALT CONNECTION PER DETAIL 9/ 1C3.1
10. NEW AC TO EXISTING AC CONNECTION PER DETAIL 10/ 1C3.1
11. NEW CHAINLINK GATE, S.A.D.
12. NEW CHAINKLINK FENCE, S.A.D.



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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
GRADING & DRAINAGE PLAN

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.
1-C2.1

DATE: February 19, 2024

CONSTRUCTION DOCUMENTS

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

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

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 Bay Point Standard Details and Specifications where applicable;
   e) These plans and details shown hereon;
   f) Standards of the United States Department of Labor, Occupational Safety and Health Administration, Office of Standards and rules of the State Division of Industrial Safety.
   g) Latest edition of the California State Code of Regulations Title 24.
   h) The Project Specifications
   i) Soils Investigation prepared by Atlas Technical Consultants LLC dated April 4, 2023, Project No 91-64513-PW.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GRADING AND PAVING NOTES

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

2. The contractor's attention is directed to the Geotechnical Investigation prepared by Atlas Technical Consultants LLC dated April 4, 2023, Project No 91-64513-PW.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

UNDERGROUND NOTES

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

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

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

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

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

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

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

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

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

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

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

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

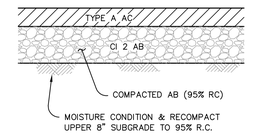
ABBREVIATIONS

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		

LEGEND

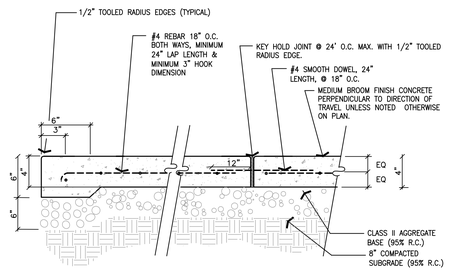
DESCRIPTION	PROPOSED	EXISTING
PROPERTY LINE		
CENTERLINE		
AC PAVEMENT		
PEDESTRIAN CONCRETE, S.L.D.		
BIO-RETENTION, S.L.D.		
CURB & GUTTER		
VERTICAL CURB		
EXPANSION JOINT		
SCORE JOINT		
VALLEY GUTTER		
TRENCH DRAIN		
PERF PIPE		
RAINWATER LEADER		
STORM LINE		
SANITARY LINE		
WATER LINE		
GAS LINE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

SECTION	TYPE A AC	CL 2 BASE	TOTAL SECTION
1 AUTO PARKING	3.0"	8.0"	11.0"



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

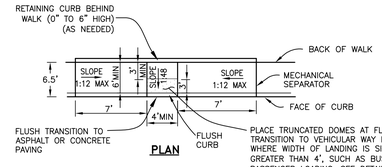
1 AC PAVEMENT SECTION — NOT TO SCALE



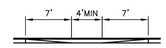
NOTES:
1. REFER TO SPECIFICATION SECTION 32 13 13 CONCRETE PAVING
2. SCORE JOINTS SHALL BE PLACED A MAXIMUM OF 8' O.C. REFER TO PLAN FOR EXACT LOCATIONS.
3. SCORE JOINTS TO BE 1/8" WIDE MAXIMUM, 1/2" RADIUS BOTH SIDES, 1/2" DEEP SCORE.
4. ADJACENT GRADE TO BE 1-1/2" BELOW CONCRETE IN PLANTING AND 1" BELOW CONCRETE IN SODDED TURF AND 1/2" BELOW CONCRETE IN SEEDED TURF.
5. USE 1 PINT OF LAMP BLACK PER YARD OF CONCRETE
6. USE JOINT FILLER ON THE EXP. JOINTS SELF LEVELING BASF SONOLASTIC ELASTOMERIC POLYURETHANE JOINT SEALANT IN ACCORDANCE WITH FEDERAL SPECIFICATION TT-S-00227E, TYPE I, CLASS A-SONNEBORN SL-2
7. CONCRETE SHALL HAVE 2.0% MAXIMUM CROSS SLOPE & 5.0% MAXIMUM SLOPE IN DIRECTION OF TRAVEL.
8. ASTM A 615, GRADE 60, DEFORMED, EXCEPT #3 AND SMALLER MAY BE GRADE 40. TEST IN ACCORDANCE WITH SECTION 1903A AND 1910A.2, 2019 C.B.C.
9. SEE DETAIL 7/1-C3.1 FOR NEW CONCRETE TO EXISTING CONCRETE CONFORM

2 CONCRETE PAVING

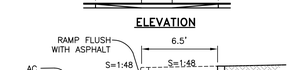
NOTES:
1. ALL SLOPED SURFACES SHALL BE ROUGH BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.
2. SLOPES WITHIN VEHICLE PULL-UP SPACE SHALL NOT EXCEED 1:48. (11B-503.4)



PLAN



ELEVATION

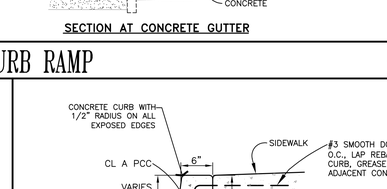


SECTION AT ASPHALT

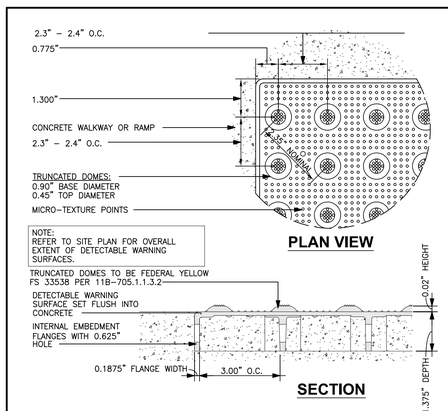


SECTION AT CONCRETE GUTTER

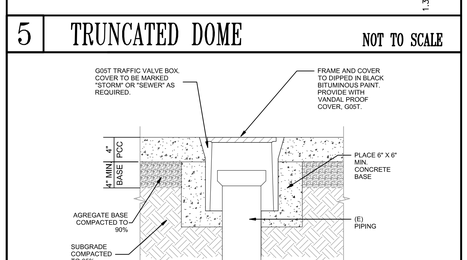
3 CURB RAMP — NOT TO SCALE



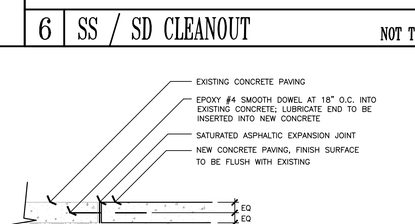
4 VERTICAL CURB — NOT TO SCALE



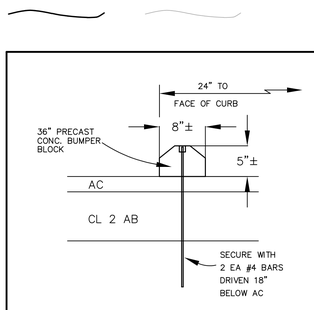
5 TRUNCATED DOME — NOT TO SCALE



6 SS / SD CLEANOUT — NOT TO SCALE



7 CONCRETE PAVING CONFORM — NOT TO SCALE



8 PARKING BUMPER

AGENCY APPROVAL DSA# XX-XXXXXXXXX

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PROFESSIONAL STAMP

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

REVISIONS

1		

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
NOTES, LEGEND & DETAILS

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.
1-C3.1

DATE: February 19, 2024

CONSTRUCTION DOCUMENTS

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

M:\3054 - Rio Vista ES_DWG\3054-C3.1-ND.dwg 4-15-24 11:40:58 AM MilanKC

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

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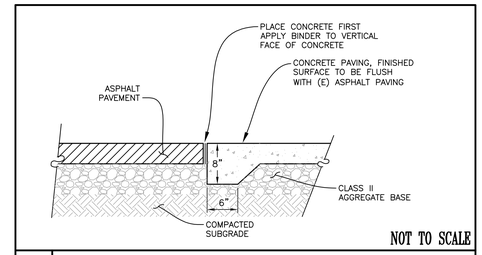
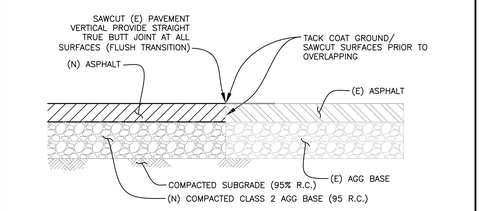


NOT TO SCALE

9 CONCRETE TO ASPHALT CONNECTION



NOT TO SCALE

10 NEW AC TO EXISTING AC CONNECTION

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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

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SHEET TITLE

DETAILS

DRAWN BY: MPM JOB NUMBER: 23118.01

SHEET NO.

1-C3.2

DATE: February 19, 2024

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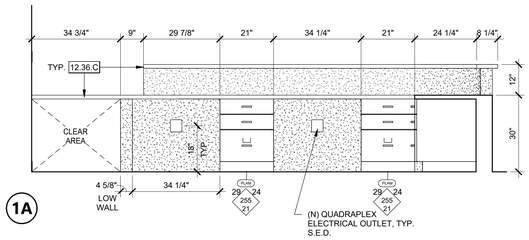
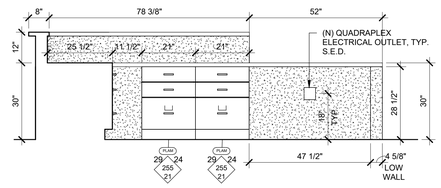


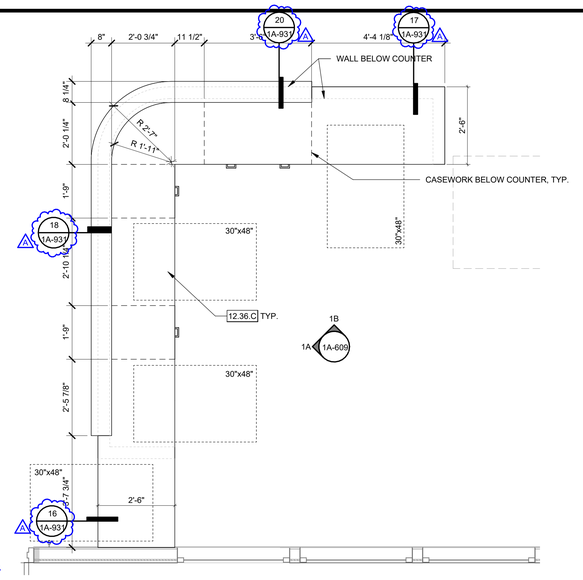
1A



1B

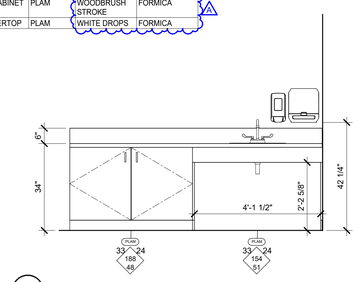
CASEWORK FINISHES - RECEPTION			
TYPE	FINISH	COLOR	REMARKS
BASE CABINET	PLAM	WOODBRUSH STROKE	FORMICA
COUNTERTOP	PLAM	WHITE DROPS	FORMICA

BLDG 5 - RECEPTION CASEWORK ELEVATIONS | 1/2" = 1'-0" | **2**



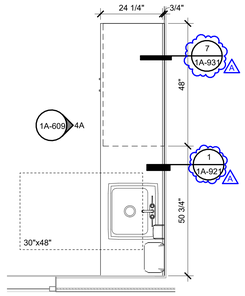
BLDG 5 RECEPTION - ENLARGED CASEWORK PLAN | 1/2" = 1'-0" | **1**

CASEWORK FINISHES - ROOM SINK			
TYPE	FINISH	COLOR	REMARKS
BASE CABINET	PLAM	WOODBRUSH STROKE	FORMICA
COUNTERTOP	PLAM	WHITE DROPS	FORMICA



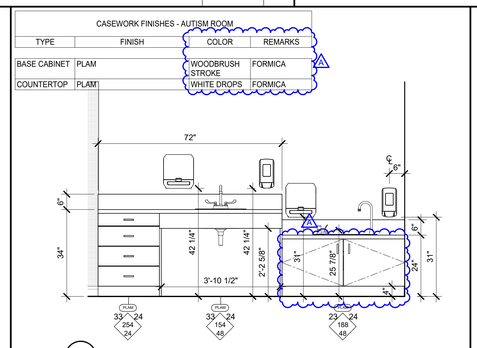
4A

TYPICAL - ROOM SINK CASEWORK ELEVATION | 1/2" = 1'-0" | **7**



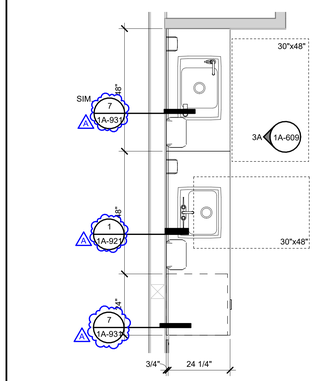
TYP. RM SINK CASEWORK PLAN | 1/2" = 1'-0" | **6**

CASEWORK FINISHES - AUTISM ROOM			
TYPE	FINISH	COLOR	REMARKS
BASE CABINET	PLAM	WOODBRUSH STROKE	FORMICA
COUNTERTOP	PLAM	WHITE DROPS	FORMICA



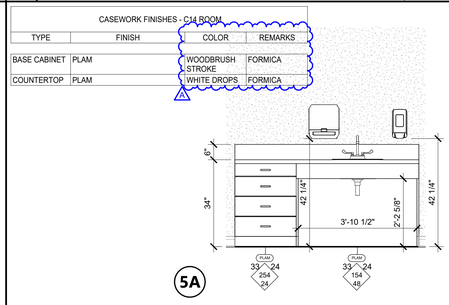
3A

BLDG 2 - RM C12 CASEWORK ELEVATION | 1/2" = 1'-0" | **5**



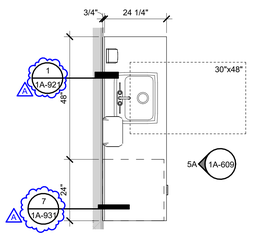
BLDG 2 - RM C12 CASEWORK PLAN | 1/2" = 1'-0" | **4**

CASEWORK FINISHES - C14 ROOM			
TYPE	FINISH	COLOR	REMARKS
BASE CABINET	PLAM	WOODBRUSH STROKE	FORMICA
COUNTERTOP	PLAM	WHITE DROPS	FORMICA



5A

BLDG 2 - RM C14 CASEWORK ELEVATION | 1/2" = 1'-0" | **9**



BLDG 2 - CLASSROOM C14 CASEWORK PLAN | 1/2" = 1'-0" | **8**

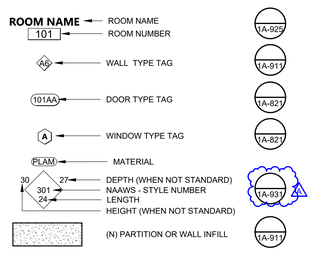
KEYNOTES

12.36.C (N) COUNTER AT SECRETARY. PLAM BASE AND QUARTZ COUNTERTOP.

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° FROM FF

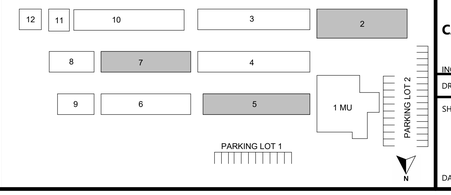
INTERIOR ELEVATION LEGEND



⚠ CLEARANCE TO FINISH SURFACE

FIXTURE	ADULT	FOR CHILDREN'S USE AGES 5-8	FOR CHILDREN'S USE AGES 9-12	CBC TABLE 11B-604.9
DISPENSER OR MIRROR HEIGHT	40" MAX.	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.	31" MAX.	31" 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.	44" MAX.	44" MAX.	
URINAL LIP HEIGHT	17" MAX.	17" MAX.	17" MAX.	

KEY PLAN



AGENCY APPROVAL DSA#

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

REVISIONS

NO.	DATE	DESCRIPTION
A	04-01-2024	BID SET
	04-15-2024	ADDENDUM

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PROJECT OWNER & TITLE

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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

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SHEET TITLE

CASEWORK ELEVATIONS

INC.1

DRAWN BY: Author JOB NUMBER: 23118.01

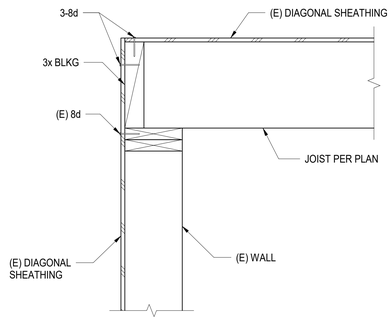
SHEET NO.

1A-609

DATE: APRIL 12, 2024

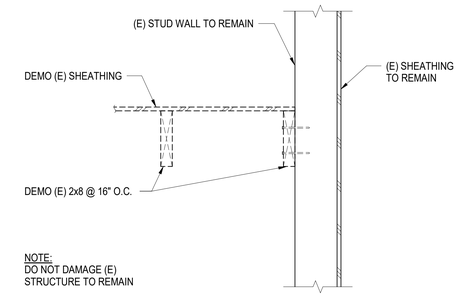
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 3:40:21 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



5 SECTION AT (E) JOIST END

1 1/2" = 1'-0"

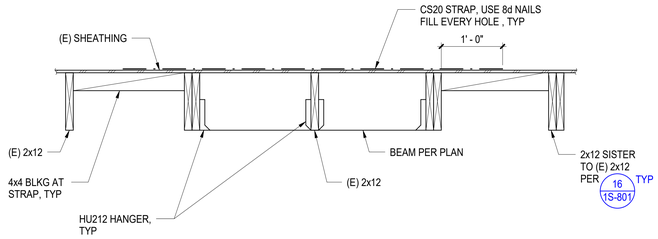


NOTE:
DO NOT DAMAGE (E) STRUCTURE TO REMAIN

1 DEMO DETAIL

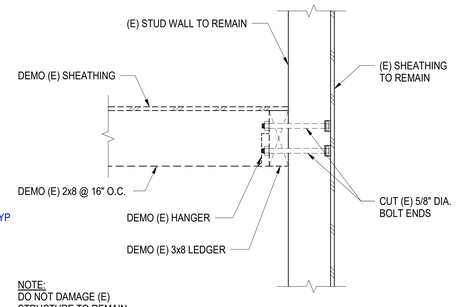
1 1/2" = 1'-0"

NOTES:
1. UNIT NOT SHOWN FOR CLARITY.



6 DETAIL AT OPENING UNDER UNIT

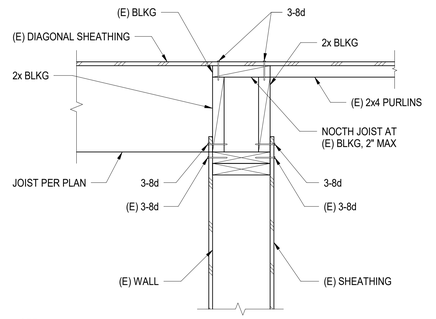
1" = 1'-0"



NOTE:
DO NOT DAMAGE (E) STRUCTURE TO REMAIN

2 DEMO DETAIL

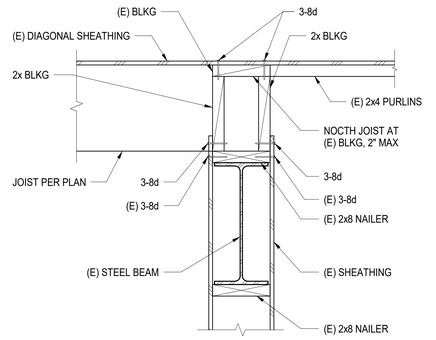
1 1/2" = 1'-0"



NOTE:
1. FOR END DETAIL AT (E) STEEL BEAM SEE 4 1S-802

3 SECTION AT (E) JOIST END

1 1/2" = 1'-0"



4 SECTION AT (E) JOIST END

1 1/2" = 1'-0"

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER GOKHAN AKALAN NO. 5694 STRUCTURAL STATE OF CALIFORNIA

REVISIONS

FOR PLAN CHECK ONLY, PER DSA IR_A-19

NO.	DATE	DESCRIPTION
A	04/16/2024	BID ADDENDUM 01

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
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Concord, CA 94519

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

SHEET TITLE
FRAMING DETAILS

INC.1

DRAWN BY: Author JOB NUMBER: 23118.01

SHEET NO. A
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DATE: JANUARY 16, 2024

CONSTRUCTION DOCUMENT

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Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814)
and ANSI/UL263 (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 3-3/4 (48 x 70)	2	Steel	No	Steel	-
EP 23	2 x 3 x 2-1/8 (51 x 76 x 57) deep	-	-	1-7/8 x 3-3/4 (48 x 70)	2	Steel	Yes	Plastic	-
EP 23	2 x 3 x 2-1/8 (51 x 76 x 57) deep	-	-	1-7/8 x 3-3/4 (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	-	-	4-7/12 x 4-7/12 (115 x 115)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-11/16 x 4-11/16 x 2-5/8 (114 x 127 x 65) deep	-	-	4-7/12 x 4-7/12 (115 x 115)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-1/2 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 a min of 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 5 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.
-	2-7/8 x 3-3/4 x 2-3/4 (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.

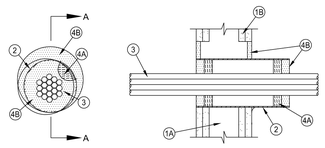
SpecSeal EP23, EP24 and EP44 Power Shield Box Inserts and SpecSeal Putty Pads, for use with maximum 4 by 4 by 1-1/2 or 2-1/8 in. (102 by 102 by 38 or 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 hr or 2 hr fire rated 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 described 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 3-5/8 3-1/2 in. (89 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 penetrating or 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 1-1/4 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 annular space between the cable and the edge 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.

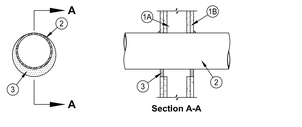
Sealant or Putty Type	Thickness, In. (mm)	Packing Material Required
SpecSeal Series SSS Sealant or LCI Sealant	1/2 in. (13)	Yes
SpecSeal Series SSS Sealant or LCI Sealant	1 in. (25)	No
SpecSeal Putty	1 in. (25)	No

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

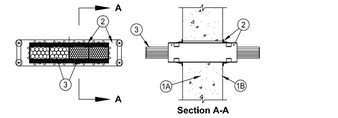
1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
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

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

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TECHNOLOGY&FIRE LIFE SAFETY
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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
ANNY KASPRZAK
Signature
EXPIRES 12/31/24
Regis. No.163629

PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION

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

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

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

SHEET TITLE
TECHNOLOGY INFRASTRUCTURE DETAILS
INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.
1T-803
DATE: JANUARY 10, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/6/2023 5:51:28 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_A23.rvt

SECTION 05 51 33 - ALUMINUM LADDERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
   1. Vertical ladders.
   2. Folding wall ladders.

B. Related Sections:
   1. Division 5 Section “Rough Carpentry” for wall support and bracing.
   2. Division 7 Section “Roof Accessories” for roof hatch.

1.3 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product.

B. Shop Drawings:
   1. Detail fabrication and erection of each ladder indicated. Include plans, elevations, sections, and details of metal fabrications and their connections.
   2. Provide templates for anchors and bolts specified for installation under other Sections.
   3. Provide reaction loads for each hanger and bracket.

C. Qualification Data: Refer to Quality Assurance provisions for submittal requirements evidencing experience, certifications and resources.

D. Verification Samples: For each finish specified, two samples, minimum size 6 inches square, represent actual product color.

1.4 QUALITY ASSURANCE

A. Reference Standards:
   1. Title 19 CCR, Public Safety, State Fire Marshall Regulations

2. Title 24 CCR, Part 1 - 2022 Building Standards Administrative Code
3. Title 24 CCR, Part 2 - 2022 California Building Code, VOL. 1&2 (CBC) (2018 IBC, as Amended by CA
4. Title 24 CCR, Part 3 – 2022 California Electrical Code (CEC) (2017 NEC, as Amended by CA)
5. Title 24 CCR, Part 4 - 2022 California Mechanical Code (CMC) (2018 IAPMO UMC, as Amended by CA)
6. Title 24 CCR, Part 5 - 2022 California Plumbing Code (CPC) (2018 IAPMO UPC, as Amended by CA)
7. Title 24 CCR, Part 6 - 2022 California Energy Code
8. Title 24 CCR, Part 9 - 2022 California Fire Code (CFC) (2018 IFC, as Amended by CA
9. Title 24 CCR, Part 10 - 2022 California Existing Building Code
   Title 24 CCR, Part 12 - 2022 California Reference Standards

B. Manufacturer Qualifications: A firm experienced in producing aluminum metal ladders similar to those indicated for this Project.

C. Record of successful in-service performance.

D. Sufficient production capacity to produce required units.

E. Installer Qualifications: Competent and experienced firm capable of selecting fasteners and installing ladders to attain designed operational and structural performance.

1.5 WARRANTY

A. Manufacturer's Warranty: 5 years.

B. Installer's Warranty: 1 year.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Aluminum Ladders (vertical): Subject to compliance with requirements, provide either the named product or an equal product by one of the other manufacturers specified.
   1. Model 500 & 503A by O'Keeffe's Inc. (Basis of Design)
   2. Royalite.
   3. Alaco.
   4. Cotterman.
   5. ACL.
   6. Or equal (Reference substitution requirements in Section 01 60 00)

2.2 MATERIALS

A. Aluminum Sheet: Alloy 5005-H34 to comply with ASTM B209.

B. Aluminum Extrusions: Alloy 6061-T6, rungs to be 6061-T6 to comply with ASTM B221.

C. Fasteners: As recommended by ladder manufacturer.

2.3 ALUMINUM LADDERS

A. Product: Model 503A Heavy Duty Tubular Rails Fixed Access Aluminum Ladder by O'Keeffe's Inc.
   1. Rungs: Not less than 1-1/4 inches in section and 18-3/8 inches long, formed from tubular aluminum extrusions. Squared and deeply serrated on all sides.
   2. Rungs shall withstand a 1,500 pound load without deformation or failure.
   3. Heavy Duty Tubular Side Rails: Assembled from two interlocking aluminum extrusions no less than 1/8-inch wall thickness by 3 inches wide. Construction shall be self-locking stainless steel fasteners, full penetration TIG welds and clean, smooth and burr-free surfaces. Channel side rails are not acceptable.

B. Product: Model 500 Standard Duty Channel Rail Fixed Access Aluminum Ladder by O'Keeffe's Inc.
   1. Rungs: Not less than 1-1/4 inches in section and 18-3/8 inches long, formed from tubular aluminum extrusions. Squared and deeply serrated on all sides.
   2. Rungs shall withstand a 1,500 pound load without deformation or failure.

2.5 BRACKETS

A. Floor Mounted Bracket (Models 500 & 503A)

B. Provide 3/8" aluminum Extended intermediate wall bracket (Model 503A)

2.6 SECURITY DOOR (Model 503A)

A. Standard security door for heavy duty tubular rails

B. 1/8" thick aluminum door panel with ¼" plate and hasp to accept pad lock.

C. Door to be width of ladder + 3 ½" X 7'6" mounted 4" above floor.

2.7 RAIL EXTENSION (Model 503A)

A. Walk-Through Rail and Roof Rail Extension: Not less than 3 feet 6 inches above the landing and shall be fitted with deeply serrated, square, tubular grab rails.

2.8 ALUMINUM FINISHES

A. Mill Finish.

B. Optional factory applied paint coatings are available as are factory chem-film treatment for field priming or painting

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Anchor securely using fasteners specified by manufacturer or others of equivalent or greater strength and corrosion resistance.

END OF SECTION 05 51 33

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SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections apply to this Section.

1.2 SUMMARY

A. Section Includes:
1. Gutters and downspouts.
2. Parapet caps
3. Roof to wall
4. Roof Edge Flashings
5. Riser/ curb caps
6. Sheet metal flashing and trim not specifically specified in other sections.

B. Related Sections:
1. Division 7 Section "Joint Sealants"
2. Division 7 section Roof Accessories" for set-on-type curbs, equipment supports, roof hatches, vents, and other manufactured roof accessory units.
3. Division 7 Section "Flexible Sheet Flashing"
4. Division 9 Section "Painting" for field painting.

1.3 PERFORMANCE REQUIREMENTS

A. General: Sheet metal flashing and trim assemblies as indicated shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each manufactured product and accessory.

B. Shop Drawings: Show fabrication and installation layouts of sheet metal flashing and trim, including plans, elevations, expansion-joint locations, and keyed details. Distinguish between shop- and field-assembled work. Include the following:
1. Identification of material, thickness, weight, and finish for each item and location in Project.

2. Details for forming sheet metal flashing and trim, including profiles, shapes, seams, and dimensions.
3. Details for joining, supporting, and securing sheet metal flashing and trim, including layout of fasteners, cleats, clips, and other attachments. Include pattern of seams.
4. Details of termination points and assemblies, including fixed points.
5. Details of expansion joints and expansion-joint covers, including showing direction of expansion and contraction.
6. Details of edge conditions, including eaves, ridges, valleys, rakes, crickets, and counter-flashings as applicable.
7. Details of special conditions.
8. Details of connections to adjoining work.

1.5 QUALITY ASSURANCE

A. Reference Standards:
1. Title 19 CCR, Public Safety, State Fire Marshall Regulations
2. Title 24 CCR, Part 1 - 2022 Building Standards Administrative Code
3. Title 24 CCR, Part 2 - 2022 California Building Code, VOL. 1&2 (CBC) (2018 IBC, as Amended by CA
4. Title 24 CCR, Part 3 - 2022 California Electrical Code (CEC) (2017 NEC, as Amended by CA)
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6. Title 24 CCR, Part 5 – 2022 California Plumbing Code (CPC) (2018 IAPMO UPC, as Amended by CA)
7. Title 24 CCR, Part 6 - 2022 California Energy Code
8. Title 24 CCR, Part 9 - 2022 California Fire Code (CFC) (2018 IFC, as Amended by CA
9. Title 24 CCR, Part 11 - 2022 California Green Building Standards Code (Calgreen Code)
10. Title 24 CCR, Part 12 - 2022 California Reference Standards (Partial List)

B. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.

C. Sheet Metal Flashing and Trim Standard: Comply with SMACNA's "Architectural Sheet Metal Manual" unless more stringent requirements are specified or shown on Drawings.

D. Preinstallation Conference: Conduct conference at Project site.
1. Meet with Owner, Architect, Owner's insurer if applicable, Installer, and installers whose work interfaces with or affects sheet metal flashing and trim including installers of roofing materials, roof accessories, unit skylights, and roof-mounted equipment.
2. Review methods and procedures related to sheet metal flashing and trim.
3. Examine substrate conditions for compliance with requirements, including flatness and attachment to structural members.
4. Review special roof details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect sheet metal flashing.

5. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage. Store sheet metal flashing and trim materials away from uncured concrete and masonry.

B. Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to the extent necessary for the period of sheet metal flashing and trim installation.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of sheet metal flashing and trim that fails in materials or workmanship within specified warranty period.
1. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
2. Warranty Period: 2 years.

B. Installer's Warranty: 1 year.

PART 2 - PRODUCTS

2.1 SHEET METALS

A. Manufacturers
1. Fairview Architectural LLC; Edgeline: www.fairview-na.com
2. Garland Co. Inc
3. Morin
4. Substitutions: See Section01 60 00-Product Requirements.

B. General: Protect mechanical and other finishes on exposed surfaces from damage by applying a strippable, temporary protective film before shipping.

C. Metallic-Coated Steel Sheet: Restricted flatness steel sheet, metallic coated by the hot-dip process and pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
1. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653, G90 coating designation; structural quality.
a. Siliconized Polyester: Epoxy primer and silicone-modified, polyester-enamel topcoat; with a dry film thickness of not less than 0.2 mil for primer and 0.8 mil for topcoat.
2. Surface: Smooth, flat and mill phosphatized for field painting.
3. Gage: 24 GA. minimum unless noted otherwise to be thicker. Except mechanical curb and deck caps to be 22 GA.
4. Color: As selected by Architect from manufacturer's full range.

5. Concealed Finish: Pretreat with manufacturer's standard white or light-colored acrylic or polyester backer finish, consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil.

2.2 MISCELLANEOUS MATERIALS

A. General: Provide materials and types of fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.

B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.
   1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.
      a. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating.
      b. Blind Fasteners: High-strength aluminum or stainless-steel rivets suitable for metal being fastened.
      c. Spikes and Ferrules: Same material as gutter; with spike with ferrule matching internal gutter width.

C. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, non-sag, nontoxic, non-staining tape 1/2 inch wide and 1/8 inch thick.

D. Elastomeric Sealant: ASTM C 920, elastomeric polyurethane polymer sealant; low modulus; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.

E. Butyl Sealant: ASTM C 1311, single—component, solvent—release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type expansion joints with limited movement.

F. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D 1187.

G. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required for application.

H. Splash Block: Precast concrete

2.3 MANUFACTURED SHEET METAL FLASHING AND TRIM

A. Reglets: Units of type, material, and profile indicated, formed to provide secure interlocking of separate reglet and counterflashing pieces, and compatible with flashing indicated with interlocking counterflashing on exterior face, of same metal as reglet.

1. Products:
   a. Fry Reglet Corporation.
   b. Heckmann Building Products Inc.
   c. Hickman, W. P. Company.
   d. Hohmann & Barnard, Inc.; STF Sawtooth Flashing.
   e. Or equal.
2. Material: Galvanized steel, minimum 0.022 inch thick.
3. Provide one of the following types depending on substrates:
   a. Surface-Mounted Type: Provide with slotted holes for fastening to substrate, with neoprene or other suitable weatherproofing washers, and with channel for sealant at top edge.
   b. Stucco Type: Provide with upturned fastening flange and extension leg of length to match thickness of applied finish materials.
   c. Concrete Type: Provide temporary closure tape to keep reglet free of concrete materials, special fasteners for attaching reglet to concrete forms, and guides to ensure alignment of reglet section ends.
   d. Masonry Type: Provide with offset top flange for embedment in masonry mortar joint.
   e. Accessories:
      1) Flexible-Flashing Retainer: Provide resilient plastic or rubber accessory to secure flexible flashing in reglet where clearance does not permit use of standard metal counterflashing or where Drawings show reglet without metal counterflashing.
      2) Counterflashing Wind-Restraint Clips: Provide clips to be installed before counterflashing to prevent wind uplift of counterflashing lower edge.

2.4 FABRICATION, GENERAL

A. General: Custom fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, geometry, metal thickness, and other characteristics of item indicated. Fabricate items at the shop to greatest extent possible.
   1. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.
   2. Obtain field measurements for accurate fit before shop fabrication.
   3. Form sheet metal flashing and trim without excessive oil canning, buckling, and tool marks and true to line and levels indicated, with exposed edges folded back to form hems.
   4. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces exposed to view.

B. Fabrication Tolerances: Fabricate sheet metal flashing and trim that is capable of installation to tolerances specified in MCA's "Guide Specification for Residential Metal Roofing."

C. Sealed Joints: Form non-expansion but movable joints in metal to accommodate elastomeric sealant.
D. Expansion Provisions: Where lapped expansion provisions cannot be used, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with butyl sealant concealed within joints.

E. Fabricate cleats and attachment devices from same material as accessory being anchored from compatible, noncorrosive metal.

F. Seams: Fabricate nonmoving seams with flat-lock seams. Tin edges to be seamed, form seams, and solder.

G. Do not use graphite pencils to mark metal surfaces.

2.5 ROOF DRAINAGE SHEET METAL FABRICATIONS

A. Hanging Gutters: Fabricate to cross section indicated, complete with end pieces, outlet tubes, and other accessories as required. Fabricate in minimum 96-inch- long sections. Furnish flat- stock gutter spacers and gutter brackets fabricated from same metal as gutters, of size recommended by SMACNA but not less than twice the gutter thickness. Fabricate expansion joints, expansion-joint covers, gutter bead reinforcing bars, and gutter accessories from same metal as gutters.
   1. Gutter Style: SMACNA designation and as indicated on drawings.

B. Downspouts: Field painted Schedule 10 pipe.

C. Overflow Parapet Scuppers:
   1. Size: 3 (Three) times the size/area of roof drains.
   2. Opening: Minimum opening height of 4 inches with inlet flow line located 2 inches above low point of adjacent roof.

D. Overflow Spout/ Snoot: JW Smith Model #1770 or approved equal.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions and other conditions affecting performance of the Work.
   1. Verify compliance with requirements for installation tolerances of substrates.
   2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.

B. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
   1. Install sheet metal flashing and trim true to line and levels indicated. Provide uniform, neat seams with minimum exposure of solder, welds, and sealant.
   2. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
   3. Space cleats not more than 12 inches apart. Anchor each cleat with two fasteners. Bend tabs over fasteners.
   4. Install exposed sheet metal flashing and trim without excessive oil canning, buckling, and tool marks.
   5. Install sealant tape where indicated.
   6. Torch cutting of sheet metal flashing and trim is not permitted.

B. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended by SMACNA.
   1. Coat with bituminous coating or by other permanent separation as recommended by SMACNA where flashing and trim will contact wood, ferrous metal, or cementitious construction.
   2. Underlayment: Where installing metal flashing directly on cementitious or wood substrates, install a course of felt underlayment and cover with a slip sheet or install a course of polyethylene sheet.

C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently watertight, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with sealant concealed withinjoints.

D. Fastener Sizes:
   1. Wood: Use fasteners of sizes that will penetrate wood sheathing not less than 1-1/4 inches for nails and not less than 3/4 inch for wood screws.
   2. Concrete or Masonry: ¼" Tapcon concrete screw anchors 1" minimum to 1-3/4" maximum penetration galvanized for interior use, stainless steel for exterior use.

E. Seal joints as shown and as required for watertight construction.
   1. Where sealant-filled joints are used, embed hooked flanges of joint members not less than inch into sealant. Form joints to completely conceal sealant. When ambient temperature at time of installation is moderate, between 40 and 70 deg. F, set joint members for 50 percent movement each way. Adjust setting

proportionately for installation at higher ambient temperatures. Do not install sealant-type joints at temperatures below 40 deg F.

2. Prepare joints and apply sealants to comply with requirements in Division 7 Section "Joint Sealants."

F. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pre-tin edges of sheets to be soldered to a width of 1-1/2 inches, except reduce pre-tinning where pre-tinned surface would show in completed Work.
1. Do not solder metallic-coated steel sheet.
2. Do not use torches for soldering. Heat surfaces to receive solder and flow solder into joint. Fill joint completely. Completely remove flux and spatter from exposed surfaces.
3. Stainless-Steel Soldering: Tin edges of uncoated sheets using solder recommended for stainless steel and acid flux. Promptly remove acid flux residue from metal after tinning and soldering. Comply with solder manufacturer's recommended methods for cleaning and neutralization.
4. Copper Soldering: Tin edges of uncoated copper sheets using solder for copper.

3.3 ROOF DRAINAGE SYSTEM INSTALLATION

A. General: Install sheet metal roof drainage items to produce complete roof drainage system according to SMACNA recommendations and as indicated. Coordinate installation of roof perimeter flashing with installation of roof drainage system.

B. Hanging Gutters: Join sections with riveted and soldered joints or with lapped joints sealed with sealant. Provide for thermal expansion. Attach gutters at eave or fascia to firmly anchored gutter brackets spaced not more than 36 inches apart. Provide end closures and seal watertight with sealant. Slope to downspouts.

C. Downspouts:
1. Provide hangers with fasteners designed to hold downspouts securely to walls. Locate hangers at top and bottom and at approximately 60 inches o.c. in between.
2. Provide elbows at base of downspout to direct water away from building.
3. Provide Cast-iron downspouts at exposed walls from grade to 8’ above finish grade.

3.4 MISCELLANEOUS FLASHING INSTALLATION

A. Overhead-Piping Safety Pans: Suspend pans independent from structure above as indicated on Drawings. Pipe and install drain line to plumbing waste or drainage system.

B. Equipment Support Flashing: Coordinate installation of equipment support flashing with installation of roofing and equipment. Weld or seal flashing with elastomeric sealant to equipment support member.

3.5 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerances specified in MCA's "Guide Specification for Residential Metal Roofing."

3.6 CLEANING AND PROTECTION

A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.

B. Clean and neutralize flux materials. Clean off excess solder.

C. Clean off excess sealants.

D. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions. On completion of installation, remove unused materials and clean finished surfaces. Maintain in a clean condition during construction.

E. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 07 62 00

SECTION 09 91 00 - PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
   1. Surface Preparation.
   2. Field application of paints, stains, varnishes, and other coatings (PTG, PTS).
   3. See Schedule and Interior Elevations on the Contract Documents for finished surfaces.

B. Related Sections:
   1. Finish Schedule on the Contract Documents**.**

1.3 SUBMITTALS

1. Product data - Submit product data sheets for each product.
2. Samples:
   a. Submit three painted samples (brush outs), illustrating selected colors and textures for each color and systems selected with specified coats cascaded.
   b. Submit on suitable backing, 8x10 inch size.

1.4 QUALITY ASSURANCE

A. Reference Standards:
   1. Title 19 CCR, Public Safety, State Fire Marshall Regulations
   2. Title 24 CCR, Part 1 - 2022 Building Standards Administrative Code
   3. Title 24 CCR, Part 2 - 2022 California Building Code, VOL. 1&2 (CBC) (2018 IBC, as Amended by CA
   4. Title 24 CCR, Part 3 - 2022 California Electrical Code (CEC) (2017 NEC, as Amended by CA)
   5. Title 24 CCR, Part 4 - 2022 California Mechanical Code (CMC) (2018 IAPMO UMC, as Amended by CA)

6. Title 24 CCR, Part 5 - 2022 California Plumbing Code (CPC) (2018 IAPMO UPC, as Amended by CA)
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8. Title 24 CCR, Part 10 - 2022 California Existing Building Code
9. Title 24 CCR, Part 12 - 2022 California Reference Standards (Partial List)

1.5 DELIVERY, STORAGE, AND PROTECTION

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

1.6 ENVIRONMENTAL REQUIREMENTS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

C. Environment Requirements:
   1. Comply with manufacturer's recommendations as to environmental conditions under which coatings and coating systems can be stored and applied.
   2. Stucco: Provide a PH test of the stucco that shows compliance with PH requirements of the paint manufacturer. Do not apply paint to stucco at PH levels over 10 or the max amount recommended by the paint manufacturer, whichever is less.
   3. Do not paint when there is a threat of rain within 24 hours or when surface or air temperatures are at or below 40 degrees.
   4. 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 specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Non-flat or non-flat 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, Non-flat or Non-flat-High gloss VOC limit on Table 5.504.4.3 shall apply. *"TABLE 5.504.4.3-VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS"*

5. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on the use of certain toxic compounds and ozone depleting substances. In Sections 94522(c)(2) and (d)(2) of the California Code of Regulations, Title 17, commencing with Section 94520 and in areas under the jurisdiction of the Bay Area Air Quality Management District, (additionally) comply with the percent VOC by weight of product limits of Regulation 8 Rule 49. *"TABLE 5.504.4.3-VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS"*

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace paint that fails in materials or workmanship within specified warranty period.
   1. Warranty Period: 1 year.

B. Installer Warranty: 1 year.

1.8 EXTRA STOCK

A. Provide following with District's permission:
   1. Minimum 2 gallons of each product and each color in an original unopened or new 1 gallon cans.
      a. Color spot each lid.
      b. Identify with formula, location, product and date on the lid.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Paints:
   1. Sherwin Williams Pomar 200 (Basis of Design for VOC, color and quality).
   2. Frazee Paints
   3. Dunn-Edwards.
   4. ICI.
   5. Or equal (Reference substitution requirements in Section 01 60 00)

2.2 PAINTS AND COATINGS

A. Ready mixed, except field-catalyzed coatings.

B. Prepare pigments:
   1. To a soft paste consistency, capable of being readily and uniformly dispersed to a homogenous coating.
   2. For good flow and brushing properties.
   3. Capable of drying or curing free of streaks or sags.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that surfaces are ready to receive Work as instructed by the product manufacturer.

B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application. Do not proceed unless substrate is suitable.

C. Test shop-applied primer for compatibility with subsequent cover materials.

D. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
   1. Plaster and Gypsum Wallboard: 12 percent.
   2. Interior Wood: 15 percent, measured in accordance with ASTM D-4442.
   3. Exterior Wood: 15 percent, measured in accordance with ASTM D-4442.

3.2 PREPARATION OF SURFACE

A. General:
   1. Clean all exterior walls and surfaces of loose and scaly paint, dirt, dust, chalk, and other foreign matter by water-blasting using care not to damage substrate followed by hand scraping, sanding or wire brushing after surfaces are dry. Mildew must be treated with household bleach solution and rinsed thoroughly.
   2. Patch, caulk, set protruding nails and repair all surfaces and cracks where necessary with suitable patching materials and smooth off to match adjacent surfaces.
   3. Sand Glossy surfaces to dull surface and remove residue.
   4. Remove mildew from affected surfaces with a solution of Tri-Sodium Phosphate and bleach. Rinse with clean water and allow to dry completely.
   5. Existing surfaces to be recoated shall be thoroughly cleaned and de-glossed by sanding or other means prior to priming and painting. Patched and bare areas shall be spot primed with the same primer as specified for new work.

6. Rusty metal: Scrape, sand or wire wheel, feathering edges to sound coating. Dust surfaces. Topcoat.
7. Remove soil and body oils completely from surfaces, including handrails, door edges and posts. Treat with Liquid Sandpaper or Dull-N-Bond.
8. Remove hardware, accessories, plates, fixtures and similar items not to be finished. Reinstall at completion.
9. Paint edges of sink cut-outs.

B. Galvanized Surfaces: Remove all oils and contamination from galvanized surfaces scheduled to be painted by washing with a compliant solvent wash.

C. Ferrous Metal: Remove grease, rust, scale, dirt and dust from ferrous metal surfaces. Primer coat shall be applied not less than 30 minutes, nor more than 3 hours after preparation of surface.

D. Primed Metal: Sand and scrape shop primed metal to remove loose primer and rust. Touch-up bare, abraded and damaged areas with metal primer. Feather edges to make touch-up patches inconspicuous.

E. Wood Surfaces:
1. Remove dust, grit and foreign matter from wood surfaces. Sand surfaces and dust clean. Spot prime knots, pitch streaks and sappy sections with a stain blocking primer where surfaces are to be painted. Fill nail holes, cracks and other defects after priming and spot prime repairs after patching material has fully cured.
2. Wood surfaces with peeling areas are to have edges of broken paint film sanded to a feather edge.
3. Back prime wood trim. Paint tops, bottoms, edges and cut-outs of doors.

F. Plaster Surfaces:
1. Plaster surfaces shall be dry and free from efflorescence, encrustations and foreign matter. Fill cracks, holes and imperfections, smoothing repairs to match adjacent texture. Allow repairs to fully cure before priming.
2. Prime plaster surfaces with specified primer. Caulk all cracks.

G. Gypsum Board: Gypsum board shall be dusted clean and free from encrustations and other foreign matter.

H. Preparation of other surfaces shall be performed following specific recommendations of the coating manufacturer.

3.3 APPLICATION

A. Apply products in accordance with manufacturer's instructions.

B. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

C. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

D. Apply each coat to uniform appearance. Apply each coat of paint slightly darker than preceding coat unless otherwise approved

E. Sand wood surfaces lightly between coats to achieve required finish.

F. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust particles just prior to applying next coat.

G. Stipple all edges and corners to conceal brush marks.

H. Doors: Paint entire door unless otherwise noted, including door top and bottom edge surfaces.

I. Paint entire trim element. Painting of faces only is unacceptable. Trim surfaces must be wrapped with the trim color and not "faced off" or "Hollywooded".

J. Tinting: Tint each primer a lighter shade to facilitate identification of each coat where multiple coats of the same material are applied. Tint primer to match the color of the finish coat, but provide sufficient differences in shade of primer to distinguish each separate coat.

3.4 PROTECTION

A. Protect work of other trades and items not intended to receive paint. Install "wet paint" signs to protect newly painted surfaces.

3.5 CLEANING

A. Protection - Carefully protect areas where work is in progress from damage.
   1. Provide and spread clean drop cloths when and where required to provide the necessary protection.
   2. Immediately clean-up all accidental spatter, spillage, misplaced paint and restore the affected surface to its original condition.

B. Clean-up:
   1. At completion of work, remove all materials, supplies, debris and rubbish and leave each area in a clean, acceptable condition.

2. Collect waste material which may constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.6 SURFACES TO BE FINISHED

A. Paint all new work and areas affected by new work, unless noted otherwise.

B. Do not paint or finish the following items:
1. Items fully factory-finished unless specifically noted.
2. Fire rating labels, equipment serial number and capacity labels.

C. Mechanical and Electrical: Use paint systems defined for the substrates to be finished.
1. Paint all insulated and exposed pipes occurring in finished areas to match background surfaces, unless otherwise indicated.
2. Paint shop primed items occurring in finished areas.
3. Paint interior surfaces of air ducts and convector and baseboard heating cabinets that are visible through grilles and louvers with one coat of flat black paint.
4. Paint dampers exposed behind louvers, grilles and convector and baseboard cabinets to match face panels.

3.7 PAINT SYSTEMS – EXTERIOR

Substitute the HIGHLIGHTED numbers for 2nd and 3rd Coats for LOW VOC ChiPs and Leed Projects ; Satin *(#B33W200)* *Semi-gloss (#B35W200)* *Hi-Gloss, (#B35W200)*

A. Paint New Plaster/Stucco, Cement Siding, Shingles, Common Brick and Concrete Walls, Low Sheen (Satin) Finish. 3 coat:
1. 1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W0300 (8 mils wet, 3.2 mils dry).
2. 2nd Coat: S-W #A89W00507 *(#B33W200)* Acrylic Low sheen (4 mils wet, 1.5 mils dry per coat)
3. 3rd Coat: S-W #A89W00507 *(#B33W200)* Acrylic Low sheen (4 mils wet, 1.5 mils dry per coat)

B. Paint New Plaster/Stucco, Cement Siding, Shingles, Common Brick and Concrete Walls,
1. 1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W0300 (8 mils wet, 3.2 mils dry).
2. 2nd Coat: S-W #B35W200 Acrylic Hi-Gloss (4 mils wet, 1.5 mils dry per coat)
3. 3rd Coat: S-W #B35W200 Acrylic Hi-Gloss (4 mils wet, 1.5 mils dry per coat)

C. Paint New Plaster/Stucco, Cement Siding, Shingles, Common Brick and Concrete Walls, Hi-gloss Finish. 3 coats:

1. 1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W0300 (8 mils wet, 3.2 mils dry).
2. 2nd Coat: S-W #B35W200 Acrylic Hi-Gloss (4 mils wet, 1.5 mils dry per coat)
3. 3rd Coat: S-W #B35W200 Acrylic Hi-Gloss (4 mils wet, 1.5 mils dry per coat)

D. Paint New Plaster/Stucco, Cement Siding, Shingles, Common Brick and Concrete Walls, Low Sheen (Satin) Finish. 3 coat:
1. 1st Coat: S-W Loxon Concrete & Masonry Primer Sealer, A24W0300 (8 mils wet, 3.2 mils dry).
2. 2nd Coat: S-W #B33W200 Acrylic Low sheen (4 mils wet, 1.5 mils dry per coat)
3. 3rd Coat: S-W #B33W200 Acrylic Low sheen (4 mils wet, 1.5 mils dry per coat)

E. Paint New Wood Satin Finish, Latex, 3 coat:
1. 1st Coat: S-W Exterior Latex Wood Primer, B42W8041 (4 mils wet, 1.4 mils dry).
2. 2nd Coat: S-W #B33W200 Latex Satin, (4 mils wet, 1.52 mils dry per coat).
3. 3rd Coat: S-W #B33W200 Latex Satin, (4 mils wet, 1.52 mils dry per coat).

F. Paint New Unpainted Masonry Satin Finish, Latex, 3 coat:
1. 1st Coat: S-W Exterior Acrylic Masonry Primer, A24W00300 (50-100 sq ft/gal).
2. 2nd Coat: S-W Super Paint Exterior Acrylic Latex Satin Finish. A89W00507 (4 mils wet, 1.52 mils dry per coat
3. 3rd Coat: S-W Super Paint Exterior Acrylic Latex Satin Finish. A89W00507 (4 mils wet, 1.52 mils dry per coat

G. Paint New Unpainted CMU Satin Finish, Latex, 3 coat:
1. 1st Coat: S-W Heavy Duty Acrylic Block Filler Primer, B42W00046 (50-100 sq ft/gal).
2. 2nd Coat: S-W Super Paint Exterior Acrylic Latex Satin Finish. A89W00507 (4 mils wet, 1.52 mils dry per coat
3. 3rd Coat: S-W Super Paint Exterior Acrylic Latex Satin Finish. A89W00507 (4 mils wet, 1.52 mils dry per coat

H. Paint New Wood, Satin Finish. Acrylic Latex, 3 coat:
1. 1st Coat: S-W A-100 Exterior Oil Wood Primer, Y24W00020 (8 mils wet, 3.2 mils dry).
2. 2nd Coat: S-W S-W Super Paint Exterior Acrylic Latex Satin Finish. A89W00507 (4 mils wet, 1.52 mils dry per coat
3. 3rd Coat: - S-W Super Paint Exterior Acrylic Latex Satin Finish. A89W00507 (4 mils wet, 1.52 mils dry per coat).

I. Stain New Wood Siding, Shingles (non-roof) and Trim, Semi-Transparent, 2 coat:
1. 1st Coat: S-W Woodscapes Exterior Polyurethane Semi-Transparent Stain A15W00211

2. 2nd Coat: S-W Woodscapes Exterior Polyurethane Semi-Transparent Stain A15W00211

J. Stain New Wood Siding, Shingles (non-roof) and Trim, Opaque Finish, 2 coat:
1. 1st Coat: S-W Woodscapes Exterior Polyurethane Semi-Transparent Stain A15W00211
2. 2nd Coat: S-W Woodscapes Exterior Polyurethane Semi-Transparent Stain A15W00211

K. Paint Ferrous Metals Semi-Gloss, Acrylic, 3 coat:
1. 1st Coat: S-W Kem-Bond HS Universal Metal Primer (Off White) B50WZ0004 (5.0 mils wet, 2.0 mils dry). *(If pre Primed: Show compatibility of primer and this coat can be deleted.)*
2. 2nd Coat: S-W DTM Acrylic Coating Semi-Gloss, B66W00211 (4 mils wet, 1.5 mils dry per coat).
3. 3rd Coat: S-W DTM Acrylic Coating Semi-Gloss, (4 mils wet, 1.5 mils dry per coat).

L. Paint New Galvanized Metals, Semi-Gloss, Acrylic, Latex 2 coat:
1. 1st Coat: Jasco Metal Etch (5.0 mils wet, 2.0 mils dry).
2. 2nd Coat: S-W DTM Acrylic Coating Semi-Gloss, B66W00211 (4 mils wet, 1.5 mils dry per coat).
3. 3rd Coat: S-W DTM Acrylic Coating Semi-Gloss, (4 mils wet, 1.5 mils dry per coat).

M. Elastomeric Coating:
1. 1st Coat - S-W, VIP
2. 1st and 2nd Coats: Minimum (2 mil each coat)

3.8 PAINT SYSTEMS -INTERIOR

A. Paint New – Wood, Trim, Doors, Composite Wood Panels, Semi-gloss Latex, 3 coat:
1. 1st Coat: Pro-Mar white lacquer Undercoater White B44WT0001
2. 2nd Coat: S-W ProMar 200 Interior Latex, Semi-Gloss, Extra white B31W02251. (4 mils wet, 1.3 mils dry per coat)
3. 3rd Coat: S-W ProMar 200 Interior Latex, Semi-Gloss, Extra white B31W02251. (4 mils wet, 1.3 mils dry per coat)

B. Paint Ferrous Metals Semi-Gloss, Acrylic, 3 coat:
1. 1st Coat: S-W Kem-Bond HS Universal Metal Primer (Off White) B50WZ0004 (5.0 mils wet, 2.0 mils dry). *If pre-Primed: Show compatibility of primer and this coat can be deleted.*
2. 2nd Coat: S-W DTM Acrylic Coating Semi-Gloss, B66W00211 (4 mils wet, 1.5 mils dry per coat).
3. 3rd Coat: S-W DTM Acrylic Coating Semi-Gloss, (4 mils wet, 1.5 mils dry per coat

C. Paint New Gypsum Board (All Areas except Public Areas , Restrooms and wet Areas) Satin Finish - Latex, 3 coat:
   1. 1st Coat: S-W Pro High Holdout Primer, B28WY2000 Series (5.0 mils wet, 2.0 mils dry)
   2. 2nd Coat: S-W ProMar 200 Interior Latex Lo-Sheen ES Enamel Extra White, (4 mils wet, 1.7 mils dry per coat).
   3. 3rd Coat: S-W ProMar 200 Interior Latex Lo-Sheen ES Enamel Extra White, (4 mils wet, 1.7 mils dry per coat).

D. Paint New Gypsum Board (Public Areas , Restrooms and wet Areas)Semi-Gloss Finish - Latex, 3 coat:
   1. 1st Coat: S-W Pro High Holdout Primer, B28WY2000 Series (5.0 mils wet, 2.0 mils dry)
   2. 2nd Coat: S-W ProMar 200 Interior Latex Semi-Gloss Extra White, B20W011251 (4 mils wet, 1.7 mils dry per coat).
   3. 3rd Coat: S-W ProMar 200 Interior Latex Semi-Gloss Extra White, B20W011251 (4 mils wet, 1.7 mils dry per coat).

E. Paint New Plaster/ Concrete (Public Areas , Restrooms and wet Areas) Semi-Gloss Finish - Latex, 3 coat:
   1. 1st Coat: PrepRite Classic Interior Latex Primer, B28W00101 (5.0 mils wet, 2.0 mils dry)
   2. 2nd Coat: S-W ProMar 200 Interior Latex Semi-Gloss Extra White, B31W02251 (4 mils wet, 1.7 mils dry per coat).
   3. 3rd Coat: S-W ProMar 200 Interior Latex Semi-Gloss Extra White, B31W02251 (4 mils wet, 1.7 mils dry per coat).

F. Paint New Galvanized Metals, Semi-Gloss, Acrylic, Latex 2 coat:
   1. 1st Coat: Jasco Metal Etch (5.0 mils wet, 2.0 mils dry).
   2. 2nd Coat: S-W DTM Acrylic Coating Semi-Gloss, B31W02251 (4 mils wet, 1.5 mils dry per coat).
   3. 3rd Coat: S-W DTM Acrylic Coating Semi-Gloss, B31W0225 (4 mils wet, 1.5 mils dry per coat).

3.9 COLORS

A. To be selected by Architect from Manufacturers standard color palette and as scheduled on the “Finish Schedule” provided in the plans.

END OF SECTION 09 91 00

SECTION 10 11 00 - VISUAL DISPLAY SURFACES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
   1. Markerboards.

B. Related Sections include the following:
   1. Division 6 Section "Interior Architectural Woodwork" for custom wood trim for visual display surfaces.
   2. Division 9 Section “Finish Schedule” for color selection.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
   1. Show location of panel joints.
   2. Show location of special-purpose graphics for visual display surfaces.
   3. Include sections of typical trim members.

C. Schedule: List product, size, and type by room numbers.

D. Samples for Initial Selection: For each type of visual display surface indicated and as follows:
   1. Actual sections of face sheet,
   2. Samples of accessories involving color selection.

E. Samples for Verification: For each type of visual display surface indicated and as follows:
   1. Visual Display Surface: Not less than 8-1/2 by 11 inches, mounted on substrate indicated for final Work. Include one panel for each type, color, and texture required.

2. Trim: 6-inch- long sections of each trim profile.
3. Rail Support System: 6-inch- long sections.
4. Accessories: Full-size Sample of each type of accessory.

F. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for surface-burning characteristics of vinyl and polyester fabrics.

G. Qualification Data: For Installer.

H. Maintenance Data: For visual display surfaces to include in maintenance manuals.

I. Warranties: Special warranties specified in this Section.

1.4 QUALITY ASSURANCE

A. Reference Standards:
1. Title 19 CCR, Public Safety, State Fire Marshall Regulations
2. Title 24 CCR, Part 1 – 2022 Building Standards Administrative Code
3. Title 24 CCR, Part 2 - 2022 California Building Code, VOL. 1&2 (CBC) (2018 IBC, as Amended by CA
4. Title 24 CCR, Part 9 - 2022 California Fire Code (CFC) (2018 IFC, as Amended by CA
5. Title 24 CCR, Part 10 - 2022 California Existing Building Code
6. Title 24 CCR, Part 11 – 2022 California Green Building Standards Code (Calgreen Code)
7. Title 24 CCR, Part 12 - 2022 California Reference Standards

B. Installer Qualifications: An authorized representative of motor-operated, sliding visual display unit manufacturer for installation and maintenance of units required for this Project.

C. Source Limitations: Obtain each type of visual display surface through one source from a single manufacturer.

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of visual display surfaces and are based on the specific system indicated. Refer to Division 1 Section "Product Requirements."
1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

E. Fire-Test-Response Characteristics: Provide face materials with the surface-burning characteristics indicated, as determined by testing identical products per ASTM E 84 by

UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.

F. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination."

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver factory-built visual display boards, including factory-applied trim where indicated, completely assembled in one piece without joints, where possible. If dimensions exceed maximum manufactured panel size, provide two or more pieces of equal length as acceptable to Architect. When overall dimensions require delivery in separate units, pre-fit components at the factory, disassemble for delivery, and make final joints at the site.

B. Store visual display units vertically with packing materials between each unit.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify dimensions by field measurements before fabrication and indicate measurements on Shop Drawings.
   1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating visual display surfaces without field measurements. Coordinate wall construction to ensure that actual dimensions correspond to established dimensions.
   2. Allow for trimming and fitting where taking field measurements before fabrication might delay the Work.

1.7 WARRANTY

A. Special Warranty for Face Sheets: Manufacturer's standard form in which manufacturer agrees to repair or replace face sheets that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Surfaces lose original writing and erasing qualities.
      b. Surfaces become slick or shiny.
      c. Surfaces exhibit crazing, cracking, or flaking.
   2. Warranty Period: Life of the building.

B. Installer’s Warranty: 1 year.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Markerboard: Subject to compliance with requirements, provide either the named product or an equal product by one of the other manufacturers specified.
   1. Best-Rite Porcelain Steel Magnetic Dry Erase Board (Basis of Design)
      a. Aluminum Frame, 48″ X 96″
      b. Model 2H2NH
   2. Magnaboard by Chatfield Clarke Co.
   3. 555 Series, P3 ceramic steel by Polyvision Corporation.
   4. LCS Markerboard by Claridge Products & Equipment, Inc.;
   5. Or equal (Reference substitution requirements in Section 01 60 00)

2.2 MARKERBOARD ASSEMBLIES

A. Product: Best-Rite Porcelain Steel Magnetic Dry Erase Board (Basis of Design)
   1. Face Sheet: Porcelain steel faced panel. May also be used as a magnetic bulletin board, organization chart and control or status board.
   2. Face Sheet Color: As selected by Architect from manufacturer’s full range.
   3. Size: 48″ X 96″ or as indicated on Drawings.
   4. 2″ Map Track at top edge
   5. Aluminum Frame

2.3 ACCESSORIES

A. Aluminum Frames and Trim: Fabricated from not less than 0.062-inch- thick, extruded aluminum; of size and shape indicated.
   1. Factory-Applied Trim: Manufacturer's standard.

B. Chalktray: Manufacturer's standard, continuous.
   1. Solid Type: Extruded aluminum with ribbed section and smoothly curved exposed ends.

C. Map Rail: Provide the following accessories:
   1. Display Rail: Continuous and integral with map rail; fabricated from cork approximately 2 inches wide.
   2. End Stops: Located at each end of map rail.
   3. Map Hooks and Clips: Two map hooks with flexible metal clips for every 48 inches of map rail or fraction thereof.
   4. Flag Holder: One for each room.
   5. Paper Holder: Extruded aluminum; designed to hold paper by clamping action.

2.4 FABRICATION

A. Porcelain-Enamel Visual Display Assemblies: Laminate porcelain-enamel face sheet and backing sheet to core material under heat and pressure with manufacturer's standard flexible, waterproof adhesive.

B. Visual Display Boards: Factory assemble visual display boards, unless otherwise indicated.
   1. Where factory-applied trim is indicated, trim shall be assembled and attached to visual display boards at manufacturer's factory before shipment.

C. Factory-Assembled Visual Display Units: Coordinate factory-assembled units with trim and accessories indicated. Join parts with a neat, precision fit.
   1. Make joints only where total length exceeds maximum manufactured length. Fabricate with minimum number of joints, balanced around center of board, as acceptable to Architect.
   2. Provide manufacturer's standard vertical-joint spline system between abutting sections of and markerboards.
   3. Where size of visual display boards or other conditions require support in addition to normal trim, provide structural supports or modify trim as indicated or as selected by Architect from manufacturer's standard structural support accessories to suit conditions indicated.

D. Aluminum Frames and Trim: Fabricate units straight and of single lengths, keeping joints to a minimum. Miter corners to neat, hairline closure.
   1. Where factory-applied trim is indicated, trim shall be assembled and attached to visual display units at manufacturer's factory before shipment.

2.5 ALUMINUM FINISHES

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

D. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 611.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances, surface conditions of wall, and other conditions affecting performance.
   1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of work.

B. Examine roughing-in for electrical power systems to verify actual locations of connections before installation of motor-operated, sliding visual display units.

C. Examine walls and partitions for proper backing for visual display surfaces.

D. Examine walls and partitions for suitable framing depth where sliding visual display units will be installed.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Remove dirt, scaling paint, projections, and depressions that will affect smooth, finished surfaces of visual display boards.

B. Prepare surfaces to achieve a smooth, dry, clean surface free of flaking, unsound coatings, cracks, defects, and substances that will impair bond between visual display boards and visual display fabric and surfaces.
   1. Seal wall surfaces indicated to receive visual display fabric.

3.3 INSTALLATION, GENERAL

A. General: Install visual display surfaces in locations and at mounting heights indicated on Drawings, or if not indicated, at heights indicated below. Keep perimeter lines straight, level, and plumb. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim, and accessories necessary for complete installation. Units shall be braced in place to allow curing of adhesive. There shall be no gaps or voids in adhesion and units shall not give when pushed.

3.4 INSTALLATION OF FACTORY-FABRICATED VISUAL DISPLAY UNITS

A. Visual Display Boards: Visual Display Boards shall be attached to the wall by spreading adhesive over the entire back of the panel with 1/4inch notched trowel. Panels shall be braced to provide thorough adhesion to the substrate and shall exhibit no “sponginess” when pressed.

3.5 CLEANING AND PROTECTION

A. Clean visual display surfaces according to manufacturer's written instructions. Attach one cleaning label to visual display surface in each room.

B. Touch up factory-applied finishes to restore damaged or soiled areas.

C. Cover and protect visual display surfaces after installation and cleaning.

END OF SECTION 10 11 00

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SECTION 10 26 00 – WALL PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. Related sections:
1. Section 09 29 00 Gypsum Board
2. Section 05 40 10 Metal Stud Framing (non-bearing) for blocking
3. Section 05 50 00 "Metal Fabrications" for miscellaneous steel attachment shapes.

1.2 SUMMARY

A. This section includes the following types of wall protection systems:
1. Handrails
2. Corner Guards
3. Crash rails

1.4 DEFINITIONS

A. Design Reference Sample: Sample of approved manufactured wall protection items, pre-approved by Architect.

1.5 PREINSTALLATION MEETINGS

A. Pre-installation Conference: Conduct conference at Project site.
1. Notify the Architect of the meeting day and time 72 hrs. in advance.

1.6 SUBMITTALS

A, General: Submit the following in accordance with conditions of contract and Division 1 specification section 01 33 00 “Submittal Procedures”:

B. Product data and detailed specifications for each system component and installation accessory required, including installation methods for each type of substrate.

C. Shop drawings showing locations, extent and installation details of handrails. Show methods of attachment to adjoining construction.

D. Samples for verification purposes: Submit the following samples, as proposed for this work, for verification of color, texture, pattern and end cap attachment and alignment:
   1. 12" (304.8mm) long sample of each model specified including end cap.

E. Product test reports from a qualified independent testing laboratory showing compliance of each component with requirements indicated.

F. Maintenance data for wall protection system components for inclusion in the operating and maintenance manuals specified in Division 1.

1.7 REFERENCES

A. Reference Standards:
   1. Title 19 CCR, Public Safety, State Fire Marshall Regulations
   2. Title 24 CCR, Part 1 - 2022 Building Standards Administrative Code
   3. Title 24 CCR, Part 2 – 2022 California Building Code, VOL. 1&2 (CBC) (2018 IBC, as Amended by CA
   4. Title 24 CCR, Part 3 - 2022 California Electrical Code (CEC) (2017 NEC, as Amended by CA)
   5. Title 24 CCR, Part 4 - 2022 California Mechanical Code (CMC) (2018 IAPMO UMC, as Amended by CA)
   6. Title 24 CCR, Part 5 – 2022 California Plumbing Code (CPC) (2018 IAPMO UPC, as Amended by CA)
   7. Title 24 CCR, Part 6 - 2022 California Energy Code
   8. Title 24 CCR, Part 9 - 2022 California Fire Code (CFC) (2018 IFC, as Amended by CA
   9. Title 24 CCR, Part 11 - 2022 California Green Building Standards Code (Calgreen Code)
   10. Title 24 CCR, Part 12 - 2022 California Reference Standards (Partial List)

C. Perform work in accordance with ASTM C754.

D. American Society for Testing and Materials (ASTM)

E. Underwriters Laboratories (UL)

F. California 01350 specification

1.8 QUALITY ASSURANCE

A. Manufacturer's qualifications: Not less than 5 years' experience in the production of specified products and a record of successful in-service performance.

B. Installer qualifications: Engage an installer who has no less than 3 years' experience in installation of systems similar in complexity to those required for this project.

C. Color match: Provide wall protection components that are color matched in accordance with the following:

1. Delta Ecmc of no greater than 1.0 using CIELab color space. (Specifier note: Construction Specialties' colors are matched under cool white fluorescent lighting and computer controlled within manufacturing tolerances. Color may vary if alternate lighting sources are present.)

D. Fire performance characteristics: Provide engineered PETG wall protection system components with UL label indicating that they are identical to those tested in accordance with ASTM E84 for Class A/1 characteristics listed below:

1. Flame spread: 25 or less
2. Smoke developed: 450 or less

E. Impact Strength: Provide assembled wall protection units that have been tested in accordance with the applicable provisions of ASTM F476.

F. Chemical and stain resistance: Provide wall protection system components with chemical and stain resistance in accordance with ASTM D543.

G. Single source responsibility: Provide all components of the wall protection system manufactured by the same company to ensure compatibility of color, texture and physical properties.

1.9 PROJECT CONDITIONS

A. Materials must be acclimated in an environment of 65°-75°F (18°-24°C) for at least 24 hours prior to beginning the installation

B. Installation areas must be enclosed and weatherproofed before installation commences.

1.11 COORDINATION

A. Furnish loose connection hardware and anchorage items to be embedded in or attached to other construction without delaying the Work. Provide locations, setting diagrams, templates, instructions, and directions, as required, for installation.

1.12 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the project site in unopened original factory packaging clearly labeled to show manufacturer.

B. Store materials in original, undamaged packaging in a cool, dry place out of direct sunlight and exposure to the elements. A minimum room temperature of 40°F (4°C) and a maximum of 100°F (38°C) should be maintained.

C. Material must be stored flat.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Fabricators: Subject to compliance with requirements, provide interior protection products by CS Specialties:
   1. CS Acrovyn 4000 by Acrovyn:
      a. Handrails: Model HRB-20N (BASIS OF DESIGN)
         i. Color: Selected from full range of manufacturers colors
         ii. Height: 5 5/8″
         iii. Length: as required to minimize joints
      b. Corner Guards: Model SM-20N (BASIS OF DESIGN)
         i. Color: Selected from full range of manufacturers colors
         ii. Size: 3″ x 3″
         iii. Length: as required to minimize joints

B. Substitutions will be considered per the Division 1 and general conditions requirements.

2.2 MATERIALS

A. Engineered PETG: Extruded material should be high-impact Acrovyn 4000 with

Shadowgrain texture, nominal .078" (1.98mm) thickness. Chemical and stain resistance should be per ASTM D543 standards as established by the manufacturer. Colors to be indicated in the finish schedule from one of manufacturer's available colors and patterns.

B. Regrind PETG: PVC-free regrind absorption cushion.

C. Aluminum: Extruded aluminum should be 6063-T6 alloy, nominal .085" (2.16mm) thickness. Minimum strength and durability properties as specified in ASTM B221.

D. Fasteners: All fasteners to be non-corrosive and compatible with aluminum components. All necessary fasteners to be supplied by the manufacturer.

E. Handrails:
   1. Engineered PETG Handrails to be CS Acrovyn: Surface mounted assembly consisting of a continuous extruded aluminum retainer with snap-on Acrovyn 4000 cover and integral shock absorbing cushions where indicated. Color matched mounting brackets to be spaced as indicated on installation instructions. Color matched end caps and corners shall be attached to allow post installation adjustment. Attachment hardware shall be appropriate for wall construction.

F. Corner Guards
   1. Engineered PETG Corner Guards to be CS Acrovyn: Surface mounted guards consisting of continuous retainer with snap-on Acrovyn 4000 cover. Color matched end caps to be provided for both partial and full height applications. Attachment hardware shall be appropriate for wall construction.

2.3 FABRICATION

A. General: Fabricate wall protection systems to comply with requirements indicated for design, dimensions, detail, finish, and member sizes.

2.4 SOURCE QUALITY CONTROL

A. Defective Units: Architect reserves the right to reject units that do not match approved samples, sample panels, and accepted installations/ mockups. Replace unacceptable units with units that comply with requirements.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verification of conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion.
   1. Do not proceed until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install the work of this section in strict accordance with the manufacturer's recommendations using only approved mounting hardware and locating all components firmly into position, level and plumb.

B. Temperature at the time of installation must be between 65°-75°F (18°-24°C) and be maintained for at least 48 hours after the installation.

C. Adjust installed end caps as necessary to ensure tight seams.

D. Where splices occur in horizontal runs, splice retainer and rail at different locations along the run.

3.3 PREPARATION

A. Surface preparation: Prior to installation, clean substrate to remove dirt, debris and loose particles. Perform additional preparation procedures as required by manufacturer's instructions.

B. Protection: Take all necessary steps to prevent damage to material during installation as required in manufacturer’s installation instructions.

3.4 CLEANING

A. General: Immediately upon completion of installation, clean material in accordance with manufacturer’s recommended cleaning method.

B. Remove surplus materials, rubbish and debris resulting from installation as work progresses and upon completion of work.

3.5 PROTECTION

A. Protect installed materials to prevent damage by other trades. Use materials that may be easily removed without leaving residue or permanent stains.

END OF SECTION 10 26 00

SECTION 26 24 16
PANELBOARDS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Power distribution panelboards.

B. Lighting and appliance panelboards.

C. Overcurrent protective devices for panelboards.

1.2 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete: Concrete equipment pads.

B. Section 26 05 26 - Grounding and Bonding for Electrical Systems.

C. Section 26 05 29 - Hangers and Supports for Electrical Systems.

D. Section 26 05 48 - Vibration and Seismic Controls for Electrical Systems.

E. Section 26 05 53 - Identification for Electrical Systems: Identification products and requirements.

F. Section 26 05 73 - Power System Studies: Additional criteria for the selection and adjustment of equipment and associated protective devices specified in this section.

G. Section 26 22 00 - Low-Voltage Transformers: Small power centers with integral primary breaker, transformer, and panelboard.

H. Section 26 27 13 - Electricity Metering: For interface with equipment specified in this section.

I. Section 26 43 00 - Surge Protective Devices.

1.3 REFERENCE STANDARDS

A. FS W-C-375 - Circuit Breakers, Molded Case; Branch Circuit and Service; 2013e, with Amendments (2022).

B. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.

C. NECA 407 - Standard for Installing and Maintaining Panelboards; 2015.

D. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2020.

E. NEMA PB 1 - Panelboards; 2011.

F. NEMA PB 1.1 - General Instructions for Proper Installation, Operation and Maintenance of Panelboards Rated 1000 Volts or Less; 2023.

G. NETA ATS - Standard For Acceptance Testing Specifications For Electrical Power Equipment And Systems; 2021.

H. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

I. UL 50 - Enclosures for Electrical Equipment, Non-Environmental Considerations; Current Edition, Including All Revisions.

J. UL 50E - Enclosures for Electrical Equipment, Environmental Considerations; Current Edition, Including All Revisions.

K. UL 67 - Panelboards; Current Edition, Including All Revisions.

L. UL 489 - Molded-Case Circuit Breakers, Molded-Case Switches and Circuit Breaker Enclosures; Current Edition, Including All Revisions.

M. UL 943 - Ground-Fault Circuit-Interrupters; Current Edition, Including All Revisions.

N. UL 1699 - Arc-Fault Circuit-Interrupters; Current Edition, Including All Revisions.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate the work with other trades to avoid placement of ductwork, piping, equipment, or other potential obstructions within the dedicated equipment spaces and working clearances for electrical equipment required by NFPA 70.
   2. Coordinate arrangement of electrical equipment with the dimensions and clearance requirements of the actual equipment to be installed.
   3. Coordinate the work with other trades to provide walls suitable for installation of flush-mounted panelboards where indicated.
   4. Verify with manufacturer that conductor terminations are suitable for use with the conductors to be installed.
   5. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

1.5 SUBMITTALS

A. Product Data: Provide manufacturer's standard catalog pages and data sheets for panelboards, enclosures, overcurrent protective devices, and other installed components and accessories.

B. Shop Drawings: Indicate outline and support point dimensions, voltage, main bus ampacity, overcurrent protective device arrangement and sizes, short circuit current ratings, conduit entry locations, conductor terminal information, and installed features and accessories.
   1. Include dimensioned plan and elevation views of panelboards and adjacent equipment with all required clearances indicated.
   2. Include wiring diagrams showing all factory and field connections.
   3. Clearly indicate whether proposed short circuit current ratings are fully rated or, where acceptable, series rated systems.
   4. Include documentation of listed series ratings upon request.
   5. Identify mounting conditions required for equipment seismic qualification.

C. Manufacturer's equipment seismic qualification certification.

D. Source Quality Control Test Reports: Include reports for tests designated in NEMA PB 1 as routine tests.

E. Field Quality Control Test Reports.

F. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.

G. Project Record Documents: Record actual installed locations of panelboards and actual installed circuiting arrangements.

H. Maintenance Data: Include information on replacement parts and recommended maintenance procedures and intervals.

I. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. Panelboard Keys: Two of each different key.

1.6 QUALITY ASSURANCE

A. Comply with requirements of NFPA 70.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years documented experience.

C. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Receive, inspect, handle, and store panelboards in accordance with manufacturer's instructions and NECA 407.

B. Store in a clean, dry space. Maintain factory wrapping or provide an additional heavy canvas or heavy plastic cover to protect units from dirt, water, construction debris, and traffic.

C. Handle carefully in accordance with manufacturer's written instructions to avoid damage to panelboard internal components, enclosure, and finish.

1.8 FIELD CONDITIONS

A. Maintain ambient temperature within the following limits during and after installation of panelboards:
   1. Panelboards Containing Circuit Breakers: Between 23 degrees F and 104 degrees F.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. ABB/GE; _____: www.electrification.us.abb.com/#sle.

B. Eaton Corporation; _____: www.eaton.com/#sle.

C. Schneider Electric; Square D Products; _____: www.schneider-electric.us/#sle.

D. Siemens Industry, Inc; _____: www.usa.siemens.com/#sle.

2.2 PANELBOARDS - GENERAL REQUIREMENTS

A. Provide products listed, classified, and labeled as suitable for the purpose intended.

B. Unless otherwise indicated, provide products suitable for continuous operation under the following service conditions:
   1. Altitude: Less than 6,600 feet.
   2. Ambient Temperature:
      a. Panelboards Containing Circuit Breakers: Between 23 degrees F and 104 degrees F.

C. Short Circuit Current Rating:
   1. Provide panelboards with listed short circuit current rating not less than the available fault current at the installed location as determined by short circuit study performed in accordance with Section 26 05 73.

D. Mains: Configure for top or bottom incoming feed as indicated or as required for the installation.

E. Branch Overcurrent Protective Devices: Replaceable without disturbing adjacent devices.

F. Bussing: Sized in accordance with UL 67 temperature rise requirements.
   1. Provide fully rated neutral bus unless otherwise indicated, with a suitable lug for each feeder or branch circuit requiring a neutral connection.
   2. Provide solidly bonded equipment ground bus in each panelboard, with a suitable lug for each feeder and branch circuit equipment grounding conductor.

G. Conductor Terminations: Suitable for use with the conductors to be installed.

H. Enclosures: Comply with NEMA 250, and list and label as complying with UL 50 and UL 50E.
   1. Environment Type per NEMA 250: Unless otherwise indicated, as specified for the following installation locations:
      a. Indoor Clean, Dry Locations: Type 1.
      b. Outdoor Locations: Type 3R.
      c. Indoor or Outdoor where subject to directional water or severe corrosion (e.g. hose-down areas in kitchens or where subject to salt water): Type 4X
      d. Class 1, Division 1 (Groups A, B, C, or D) Locations: Type 7 or 8.
   2. Boxes: Galvanized steel unless otherwise indicated.
      a. Provide wiring gutters sized to accommodate the conductors to be installed.
      b. Increase gutter space as required where sub-feed lugs, feed-through lugs, gutter taps, or oversized lugs are provided.

c. Provide painted steel boxes for surface-mounted panelboards where indicated, finish to match fronts.

3. Fronts:
   a. Fronts for Surface-Mounted Enclosures: Same dimensions as boxes.
   b. Fronts for Flush-Mounted Enclosures: Overlap boxes on all sides to conceal rough opening.
   c. Finish for Painted Steel Fronts: Manufacturer's standard grey unless otherwise indicated.
4. Lockable Doors: All locks keyed alike unless otherwise indicated.

I. Future Provisions: Prepare all unused spaces for future installation of devices including bussing, connectors, mounting hardware and all other required provisions.

J. Surge Protective Devices: Where factory-installed, internally mounted surge protective devices are provided in accordance with Section 26 43 00, list and label panelboards as a complete assembly including surge protective device.

K. Selectivity: Where the requirement for selectivity is indicated, furnish products as required to achieve selective coordination.

L. Multi-Section Panelboards: Provide enclosures of the same height, with feed-through lugs or sub-feed lugs and feeders as indicated or as required to interconnect sections.

M. Provide the following features and accessories where indicated or where required to complete installation:
   1. Feed-through lugs.
   2. Sub-feed lugs.

2.3 POWER DISTRIBUTION PANELBOARDS

A. Description: Panelboards complying with NEMA PB 1, power and feeder distribution type, circuit breaker type, and listed and labeled as complying with UL 67; ratings, configurations and features as indicated on the drawings.

B. Conductor Terminations:
   1. Main and Neutral Lug Material: Copper, suitable for terminating copper conductors only.
   2. Main and Neutral Lug Type: Mechanical.

C. Bussing:
   1. Phase and Neutral Bus Material: Copper.
   2. Ground Bus Material: Copper.

D. Circuit Breakers:
   1. Provide bolt-on type.
   2. Provide thermal magnetic circuit breakers unless otherwise indicated.

E. Enclosures:
   1. Provide surface-mounted enclosures unless otherwise indicated.

2. Fronts: Provide door-in-door trim with hinged cover for access to load terminals and wiring gutters, and separate lockable hinged door with concealed hinges for access to overcurrent protective device handles without exposing live parts.
3. Provide clear plastic circuit directory holder mounted on inside of door.

2.4 LIGHTING AND APPLIANCE PANELBOARDS

A. Description: Panelboards complying with NEMA PB 1, lighting and appliance branch circuit type, circuit breaker type, and listed and labeled as complying with UL 67; ratings, configurations and features as indicated on the drawings.

B. Conductor Terminations:
1. Main and Neutral Lug Material: Copper, suitable for terminating copper conductors only.
2. Main and Neutral Lug Type: Mechanical.

C. Bussing:
1. Phase Bus Connections: Arranged for sequential phasing of overcurrent protective devices.
2. Phase and Neutral Bus Material: Copper.
3. Ground Bus Material: Copper.

D. Circuit Breakers: Thermal magnetic bolt-on type unless otherwise indicated.

E. Enclosures:
1. Provide surface-mounted or flush-mounted enclosures as indicated.
2. Fronts: Provide door-in-door trim with hinged cover for access to load terminals and wiring gutters, and separate lockable hinged door with concealed hinges for access to overcurrent protective device handles without exposing live parts.
3. Provide clear plastic circuit directory holder mounted on inside of door.

2.5 OVERCURRENT PROTECTIVE DEVICES

A. Molded Case Circuit Breakers:
1. Description: Quick-make, quick-break, over center toggle, trip-free, trip-indicating circuit breakers listed and labeled as complying with UL 489, and complying with FS W-C-375 where applicable; ratings, configurations, and features as indicated on the drawings.
2. Interrupting Capacity:
a. Provide circuit breakers with interrupting capacity as required to provide the short circuit current rating indicated.
b. Fully Rated Systems: Provide circuit breakers with interrupting capacity not less than the short circuit current rating indicated.
3. Conductor Terminations:
a. Provide mechanical lugs unless otherwise indicated.
b. Lug Material: Copper, suitable for terminating copper conductors only.

4. Thermal Magnetic Circuit Breakers: For each pole, furnish thermal inverse time tripping element for overload protection and magnetic instantaneous tripping element for short circuit protection.
    a. Provide field-adjustable magnetic instantaneous trip setting for circuit breaker frame sizes 225 amperes and larger.
    b. Provide interchangeable trip units for circuit breaker frame sizes 600 amperes and larger.
5. Multi-Pole Circuit Breakers: Furnish with common trip for all poles.
6. Provide the following circuit breaker types where indicated:
    a. Ground Fault Circuit Interrupter (GFCI) Circuit Breakers: Listed as complying with UL 943, class A for protection of personnel.
    b. Ground Fault Equipment Protection Circuit Breakers: Designed to trip at 30 mA for protection of equipment.
    c. Arc-Fault Circuit Interrupter (AFCI) Circuit Breakers: Combination type listed as complying with UL 1699.
    d. 100 Percent Rated Circuit Breakers: Listed for application within the panelboard where installed at 100 percent of the continuous current rating.
    e. Current Limiting Circuit Breakers: Without using fusible elements, designed to limit the let-through energy to a value less than the energy of a one-half cycle wave of the symmetrical prospective current when operating within its current limiting range.
7. Do not use tandem circuit breakers.
8. Do not use handle ties in lieu of multi-pole circuit breakers.
9. Provide multi-pole circuit breakers for multi-wire branch circuits as required by NFPA 70.
10. Provide the following features and accessories where indicated or where required to complete installation:
    a. Shunt Trip: Provide coil voltage as required for connection to indicated trip actuator.
    b. Handle Pad-Lock Provision: For locking circuit breaker handle in OFF position.
    c. Auxiliary Switch: SPDT switch suitable for connection to system indicated for indicating when circuit breaker has tripped or been turned off.
    d. Undervoltage Release: For tripping circuit breaker upon predetermined drop in coil voltage with field-adjustable time delay to prevent nuisance tripping.
    e. Alarm Switch: SPDT switch suitable for connection to system indicated for indicating when circuit breaker has tripped.

2.6 SOURCE QUALITY CONTROL

A. Factory test panelboards according to NEMA PB 1.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that the ratings and configurations of the panelboards and associated components are consistent with the indicated requirements.

C. Verify that mounting surfaces are ready to receive panelboards.

D. Verify that conditions are satisfactory for installation prior to starting work.

3.2 INSTALLATION

A. Perform work in accordance with NECA 1 (general workmanship).

B. Install products in accordance with manufacturer's instructions.

C. Install panelboards in accordance with NECA 407 and NEMA PB 1.1.

D. Arrange equipment to provide minimum clearances in accordance with manufacturer's instructions and NFPA 70.

E. Provide required support and attachment in accordance with Section 26 05 29.

F. Install panelboards plumb.

G. Install flush-mounted panelboards so that trims fit completely flush to wall with no gaps and rough opening completely covered.

H. Mount panelboards such that the highest position of any operating handle for circuit breakers or switches does not exceed 79 inches above the floor or working platform.

I. Mount floor-mounted power distribution panelboards on properly sized 6 inch high concrete pad constructed in accordance with Section 03 30 00.

J. Provide minimum of six spare 1 inch trade size conduits out of each flush-mounted panelboard stubbed into accessible space above ceiling and below floor.

K. Provide grounding and bonding in accordance with Section 26 05 26.

L. Install all field-installed branch devices, components, and accessories.

M. Where accessories are not self-powered, provide control power source as indicated or as required to complete installation.

N. Multi-Wire Branch Circuits: Group grounded and ungrounded conductors together in the panelboard as required by NFPA 70.

O. Set field-adjustable circuit breaker tripping function settings as determined by overcurrent protective device coordination study performed according to Section 26 05 73.

P. Provide filler plates to cover unused spaces in panelboards.

Q. Provide circuit breaker lock-on devices to prevent unauthorized personnel from de-energizing essential loads where indicated. Also provide for the following:

1. Fire detection and alarm circuits.

R. Identify panelboards in accordance with Section 26 05 53.

3.3 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements, for additional requirements.

B. Inspect and test in accordance with NETA ATS, except Section 4.

C. Molded Case Circuit Breakers: Perform inspections and tests listed in NETA ATS, Section 7.6.1.1 for all main circuit breakers and circuit breakers larger than 225 amperes. Tests listed as optional are not required.

D. Ground Fault Protection Systems: Test in accordance with manufacturer's instructions as required by NFPA 70.

E. Test GFCI circuit breakers to verify proper operation.

F. Test AFCI circuit breakers to verify proper operation.

G. Test shunt trips to verify proper operation.

H. Procure services of a qualified manufacturer's representative to observe installation and assist in inspection, testing, and adjusting. Include manufacturer's reports with field quality control submittals.

I. Correct deficiencies and replace damaged or defective panelboards or associated components.

3.4 ADJUSTING

A. Adjust tightness of mechanical and electrical connections to manufacturer's recommended torque settings.

B. Adjust alignment of panelboard fronts.

C. Load Balancing: For each panelboard, rearrange circuits such that the difference between each measured steady state phase load does not exceed 20 percent and adjust circuit directories accordingly. Maintain proper phasing for multi-wire branch circuits.

3.5 CLEANING

A. Clean dirt and debris from panelboard enclosures and components according to manufacturer's instructions.

B. Repair scratched or marred exterior surfaces to match original factory finish.

END OF SECTION

SECTION 28 31 00
INTRUSION DETECTION

PART I - GENERAL

1.01 SUMMARY

A. This section specifies equipment, accessories, materials, wire, installation, configuration, and testing requirements for a complete and operable electronic Intrusion Detection system. The system shall provide intrusion alarm notification, monitoring, command and control and be connected to the District's existing UL listed monitoring station.

1.02 SCOPE

A. The work will include but not be limited to the following objectives:

1. Labor and Materials: The Contractor shall provide and pay for all labor, supervision, materials, accessories, components, equipment, tools, transportation, and other facilities and services necessary for the proper installation of a turn-key Intrusion Detection system to the District.

2. The contractor will coordinate with the District in writing for any needed information (i.e. IP addresses, etc.) at least 2 weeks prior to date the information is needed.

3. Intrusion detection equipment: Includes, but is not limited to:
   a. Control panels
   b. Keypads
   c. Motion detectors
   d. Door contacts
   e. Glass break detectors
   f. Monitor modules
   g. Wire

4. Typical installation includes central control panel and keypad with distributed motion detection and/or door contacts for rooms requiring intrusion detection.

5. All installations with network connectivity shall utilize District's network.

6. All control panels shall have battery backup.

1.03 RELATED REQUIREMENTS

A. Division 01 – General Requirements

B. Section 27 00 00 - Communications

C. Section 27 05 00 – Common Work Results for Communication Systems.

D. Section 27 10 00 – Structured Cabling

1.04 REFERENCES

A. See section 27 00 00 for requirements.

1.05 DEFINITIONS

A. See section 27 00 00 for requirements.

1.06 SYSTEM REQUIREMENTS

A. Any new installations or existing system modifications shall seamlessly integrate into the site's existing Intrusion Detection system.

1.07 SUBMITTALS

A. See section 27 00 00 for requirements.

1.08 CONTRACTOR "SHOP DRAWINGS" DESIGN REQUIREMENTS

A. See section 27 00 00 for requirements.

1.09 QUALIFICATIONS

A. Contractor shall be located within 50 miles or less from the project site to support 2-hour response time.

B. Five (5) years' experience installing communications equipment systems.

1.10 CERTIFICATIONS

A. See section 27 00 00 for requirements.

1.11 WORKMANSHIP

A. Quality workmanship is a high priority for the District and the Contractor shall be held to a high-level of professional workmanship.

B. The District's Project or Construction Manager will have the authority to reject Work which does not conform to the Drawings and Specifications.

C. Comply with highest industry standards, except when specified requirements indicate more rigid standards or more precise workmanship.

D. Perform Work with persons experienced and qualified to produce workmanship specified.

E. Maintain quality control over suppliers and Subcontractors.

F. Contractor shall be responsible for scheduling Subcontractors in a timely fashion.

1.12 WARRANTY

A. Refer to Division 01 Warranty section.

B. See section 27 00 00 for additional requirements.

1.13 CLOSEOUT DOCUMENTS

A. See section 27 00 00 for requirements.

PART 2 - PRODUCTS

2.01 GENERAL

A. Manufacturers - See Appendix A at the end of this document for pre-approved materials.

B. All products shall be new, unused and without blemishes and shall be of manufacturer's current and standard production.

C. Drawings and Specifications indicate major system components, and may not show every component, connector, module, or accessory that may be required to support the operation specified. The Contractor shall provide all components needed for complete and satisfactory installation and operation.

D. Product Availability

1. Contractor, prior to submitting a proposal, shall determine product availability and delivery time, and shall include such considerations into his proposed Contract Time.

2. Subject to compliance with these specifications, products and systems included in this section are to be installed as specified by the manufacturer of the system or engineer approved equal.

2.02 EQUIPMENT

A. See Appendix A at the end of this document for pre-approved materials.

B. Substitutions require proof of equivalence and prior approval by District and/or its representative before ordering.

C. The control panel cabinet shall have a key lock.

D. The control panel cabinet shall have backup batteries.

PART 3 - EXECUTION

3.01 ACCEPTABLE INSTALLERS

A. The equipment shall only be installed by Contractors who are qualified to install and maintain the system.

B. The Contractor (or subcontractor listed at time of bid) must have at least five (5) years' experience installing electronic intrusion detection equipment before the Bid Opening Date.

3.02 EXAMINATION

A. The Contractor shall be required to visit the installation site(s) prior to bidding the job. The Contractor acknowledges that the failure to visit the site(s) will not relieve the Contractor of the responsibility for observing and considering those conditions which a Contractor would have observed and considered during a site visit, estimating properly the difficulty and cost of successfully performing the Work or proceeding to perform the Work without additional cost to District.

B. The Contractor shall report any discrepancies between the Specifications, Drawings, and Site Examination prior to the Bid Opening Date.

3.03 PREPARATION

A. The Contractor shall verify materials are readily available prior to submitting product submittals and notify the District's Project Manager of long lead time items.

B. The Contractor shall order all required parts and equipment only after receipt of approved product submittals from the District's Project Manager.

C. The Contractor shall submit and receive approval for submitted shop drawings prior to work commencement.

3.04 PATHWAY INSTALLATION

A. See Division 26 and Section 27 05 00 for requirements and more information.

B. Existing Construction:
   1. Refer to design documents.
   2. Surface raceway and components shall be Wiremold 2300.

3.05 EQUIPMENT INSTALLATION

A. Equipment to be wired and installed per manufacturer's instructions.

B. All wiring in enclosure shall have 12" minimum service loop for troubleshooting/repairs.

C. All shielded wiring to have shields grounded at the upstream end only. Floating shields are strictly prohibited.

D. Data drops to be installed inside the controller panel cabinet.

3.06 LABELING/SCHEDULES

A. All labels are to be machine generated black letters on white adhesive label stock that is appropriate for the installation environment (interior/exterior).

B. Device ID Labels are to be 1/4" lettering for mounting heights 10' AFF or less, 1/2" black lettering on white labels for mounting heights greater than 10' AFF.

C. Intrusion Control Panel/Cabinet label – Panel ID on exterior top right of panel door.

D. Battery label – Install date.

E. Wiring label – Panel, ID-Zone/Circuit.

F. Network Information label – MAC and IP address on interior top right of panel door.

G. Network Cable Termination label - MDF/IDF-port number.

H. Zone schedule – A zone schedule and device location drawing shall be printed and installed in a plastic sleeve inside the panel cover door.

3.09 CONFIGURATION

A. Program all network equipment with network IP address information obtained from Technology Services.

B. All equipment to be fully configured and tested for functionality prior to testing.

3.10 FIELD QUALITY CONTROL AND TESTING

A. Upon reaching substantial completion, the Contractor shall perform a complete test and inspection of the system. If found to be installed and operating properly, the Contractor shall notify District of your readiness to perform the formal Test & Inspection of the complete system.

B. Submit the Record Drawings (as-builts) to District for review prior to inspection.

C. During the formal Test & Inspection (Commissioning) of the system, the Contractor shall have personnel available with tools and equipment to inspect wiring, devices, and system operation.

D. If corrections are needed, the Contractor will be provided with a Punch-List of all discrepancies. Perform the needed corrections in a timely fashion.

E. Notify the District when ready to perform a re-inspection of the installation.

F. District or its representative to provide final sign-off for acceptance.

3.11 AS-BUILT DRAWINGS

A. See section 27 00 00 for requirements.

B. As-built riser diagram showing all components for project.

APPENDIX A – Pre-Approved Materials

DESCRIPTION	MFG	PART NUMBER
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

END OF SECTION

SECTION 28 46 00
FIRE DETECTION AND ALARM

PART 1 GENERAL

1.1 DESCRIPTION OF WORK:

A. Furnish and install all materials and equipment including all required equipment, panels, raceways, conductors and connections, and provide all labor required and necessary to complete the work shown on the drawings and/or specified and all other work and miscellaneous items, not specifically mentioned, but reasonably inferred for a complete addressable fire alarm installation including all accessories and appurtenances required for testing the systems. It is the intent of the drawings and specifications that all systems be complete, and ready for operation. No extra charge will be paid for furnishing items required by regulations, but not specified herein, or on drawings.

B. The fire alarm system shall comply with requirements of NFPA Standard 72 for Protected Premises Signaling Systems except as modified and supplemented by this specification. The system shall be electrically supervised and monitor the integrity of all conductors.

C. Each designated zone shall transmit separate and different alarm, supervisory and trouble signals to the FACP and designated personnel in other buildings at the site via a multiplex communication network.

D. See site drawings for specific requirements for the site.

1.2 RELATED WORK:

A. Refer to the General Conditions, Supplementary General Conditions, and Division 1 General Requirements.

B. See the following specification sections for work related to the work in this section:
   1. 28 05 00 - General Requirements for Electronic Safety and Security
   2. 26 05 33.13 - Raceways and Fittings for Electrical Systems
   3. 26 05 33.16 - Boxes for Electrical Systems
   4. 28 05 13 - Wire and Cable for Electronic Safety and Security

1.3 STANDARDS AND CODES:

A. Devices and equipment for fire alarm system shall be U.L. listed. Underwriters Laboratories (UL) Standards:
   1. UOJZ Control Units
   2. 38 Manual Operation Signal Boxes
   3. 268 Smoke Detectors for Fire Alarm Signaling Systems
   4. 268A Smoke Detectors for Duct Application
   5. 464 Audible Signal Appliances
   6. 521 Heat Detectors for Fire Protective Signaling Systems

7. 864 Control Units and Accessories for Fire Alarm Systems
8. 1635 Digital Alarm Communicator System Units
9. 1971 Signaling Devices for Hearing Impaired

B. Devices and equipment for fire alarm system shall be listed by the California State Fire Marshal for the specific purpose the device or equipment is used.

C. Work and material shall be in compliance with and according to the requirements of the latest revision of the following standards and codes:
1. California Building Code (CBC), Volumes #1 and #2 (Part 2, Title 24, CCR).
2. California Electrical Code (Part 3, Title CCR).
3. California Mechanical Code (CMC) (Part 4, Title 24, CCR).
4. California Plumbing Code (CPC) (Part 5, Title 24, CCR).
5. California Energy Code (Part 6, Title 24, CCR).
6. California Fire Code (CFC) (Part 9, Title 24).
7. California Green Code (Part 11, Title 24, CCR).
8. California Referenced Standards Code (Part 12, title 24, CCR).
9. NFPA 72 National Fire Alarm Code.
10. NFPA 13 Standards for Fire Sprinkler Systems.
11. ADA Standards for Accessible Design: ADA Accessibility Guidelines (ADAAG) 28, Part 36 Appendix A.
12. ADA Standards for Accessible Design: Code of Regulations (Including Amendments)

1.4 SUBMITTALS:

A. In accordance with Section 28 05 00.

B. Submit the following items:
1. Manufacturer's Catalog Data: Manufacturer's original catalog cuts and original description of data of all material and equipment with sufficient information provided so that the exact function of each device is known. Each item supplied shall be clearly identified including both U.L. number and a copy of the State Fire Marshal's listing.
2. Description of conductors to be used with a statement that all wire shall be in conduit.
3. Voltage drop calculations: Verify that voltage drop on signal device circuits does not exceed 10%.
4. Battery Calculations: Verify that battery capacity exceeds supervisory and alarm power requirements, minimum twenty-four (24) hours supervisory plus 15 minutes at full alarm.
5. Floor plan of the point to point connections.
6. Diagram of the power circuitry.
7. Riser diagram.

8. Copy of California State DIR Fire/Life Safety Certificate of installer.
9. Letter on contractor's letterhead certifying that contractor has at least 3 years experience successfully installing fire alarm systems of similar type and design, or that there is a contractual agreement with a subcontractor having at least 3 years experience successfully installing fire alarm systems of similar type and design.

1.5 SUBSTITUTIONS:

A. Fire Alarm System Manufacturer is an Owner Standard no substitutions allowed.

1.6 QUALIFICATIONS OF INSTALLER:

A. NICET level 2 or greater.

B. Prior to installation, submit data for review showing that the contractor has at least 3 years experience successfully installing fire alarm systems of similar type and design, or that there is a contractual agreement with a subcontractor having at least 3 years experience successfully installing fire alarm systems of similar type and design.

C. One contractor shall furnish and install a complete Fire Alarm and Smoke Detection System as described herein and drawn. Installation shall be by a factory authorized installer of the fire alarm system.

1.7 WARRANTIES:

A. The contractor shall warrant all equipment and wiring free from inherent mechanical and electrical defects for one year (365 days) from the date of final acceptance. The contractor shall without additional expense to the owner, replace any defective materials or equipment provided by him under this contract within the warranty period.

B. FACP shall have a five year manufacturer's warranty from the date of final acceptance.

C. Signaling devices shall have a two year manufacturer's warranty from the date of final acceptance.

PART 2 PRODUCTS

2.1 MANUFACTURER:

A. (E) Fire Alarm Control Panel (FACP):
   1. Edwards EST-3, CSFM listed at time of installation

B. Smoke Detector (Photoelectric):
   1. Edwards SIGA-PCD, CSFM 7275-1657:0334

C. Heat Detector (Fixed Temp, 190°):
   1. Edwards SIGA-HFD, CSFM 7270-1657:0333

D. Addressable Relay Module:
   1. Edwards SIGA-CR, CSFM 7300-1657:0121

E. Remote Notification Power Supply:
   1. Edwards 3-PPS, CSFM listed at time of installation

F. Strobe:
   1. Edwards G1VRF, CSFM 7125-1657:0506

2.2 COMPONENTS:

A. Colors: Provide finish colors under this section in accordance with FED-STD-595.

2.3 FIRE ALARM CONTROL PANEL:

A. Main FACP or network node shall contain a microprocessor based Central Processing Unit (CPU) and power supply. The CPU shall communicate with and control the following types of equipment used to make up the system: intelligent addressable smoke and thermal (heat) detectors, addressable modules, printer, annunciators, and other system controlled devices.

B. In conjunction with intelligent Loop Control Modules and Loop Expander Modules, the main FACP shall perform the following functions:
   1. Supervise and monitor all intelligent addressable detectors and monitor modules connected to the system for normal, trouble and alarm conditions.
   2. Supervise all initiating signaling and notification circuits throughout the facility by way of connection to addressable monitor and control modules.
   3. Detect the activation of any initiating device and the location of the alarm condition. Operate all notification appliances and auxiliary devices as programmed. In the event of CPU failure, all SLC loop modules shall fallback to degrade mode. Such degrade mode shall treat the corresponding SLC loop control modules and associated detection devices as conventional two-wire operation. Any activation of a detector in this mode shall automatically activate associated Notification Appliance Circuits.

C. The FACP shall be capable of communicating over a Local Area Network (LAN) or Wide Area Network (WAN) utilizing a peer-to-peer, inherently regenerative communication format and protocol. The network shall support communication speed up to 100 Mb and support up to 200 panels / nodes per network.

D. The control panel shall be capable of expansion via up to 10 SLC loops. Each module shall support up to 318 analog/addressable devices for a maximum system capacity of 3180 points. The Fire Alarm Control Panel shall include a full featured operator interface control and annunciation panel that shall include a backlit 640-character liquid crystal display, individual, color coded system status LEDs, and a keypad for the control of the fire alarm system. Said LCD shall also support graphic bit maps.

E. All programming or editing of the existing program in the system shall be achieved without interrupting the alarm monitoring functions of the fire alarm control panel.

F. The FACP shall be able to provide the following software and hardware features:
   1. Pre-signal and Positive Alarm Sequence: The system shall provide means to cause alarm signals to only sound in specific areas with a delay of the alarm from 60 to up to 180 seconds after start of alarm processing. In addition, a Positive Alarm

Sequence selection shall be available that allows a 15-second time period for acknowledging an alarm signal from a fire detection/initiating device. If the alarm is not acknowledged within 15 seconds, all local and remote outputs shall automatically activate immediately.

2. Smoke Detector Pre-alarm Indication at Control Panel: To obtain early warning of incipient or potential fire conditions, the system shall support a programmable option to determine system response to real-time detector sensing values above the programmed setting. Two levels of Pre-alarm indication shall be available at the control panel: alert and action.
3. Alert: It shall be possible to set individual smoke detectors for pre-programmed pre-alarm thresholds. If the individual threshold is reached, the pre-alarm condition shall be activated.
4. Action: If programmed for Action and the detector reaches a level exceeding the pre-programmed level, the control panel shall indicate an action condition. Sounder bases installed with either heat or smoke detectors shall automatically activate on action Pre-Alarm level, with general evacuation on Alarm level.
5. The system shall support a detector response time to meet world annunciation requirements of less than 3 seconds.
6. Device Blink Control: Means shall be provided to turn off detector/module LED strobes for special areas.
7. NFPA 72 Smoke Detector Sensitivity Test: The system shall provide an automatic smoke detector test function that meets the sensitivity testing requirements of NFPA 72.
8. Programmable Trouble Reminder: The system shall provide means to automatically initiate a reminder that troubles exist in the system. The reminder will appear on the system display and (if enabled) will sound a piezo alarm.
9. On-line or Off-line programming: The system shall provide means to allow panel programming either through an off-line software utility program away from the panel or while connected and on-line. The system shall also support upload and download of programmed database and panel executive system program to a Personal Computer/laptop. A single change to one CPU database shall not require a database download to other CPUs.
10. History Events: The panel shall maintain a history file of the last 4000 events, each with a time and date stamp. History events shall include all alarms, troubles, operator actions, and programming entries. The control panels shall also maintain a 1000 event Alarm History buffer, which consists of the 1000 most recent alarm events from the 4000-event history file.
11. Smoke Control Modes: The system shall provide means to perform FSCS mode Smoke Control to meet NFPA-92A and 90B and HVAC mode to meet NFPA 90A.
12. The system shall provide means for all SLC devices on any SLC loop to be auto programmed into the system by specific address. The system shall recognize specific device type ID's and associate that ID with the corresponding address of

the device.

13. Passwords and Users: The system shall support two password levels, master and user. Up to 9 user passwords shall be available, each of which may be assigned access to the programming change menus, the alter status menus, or both. Only the master password shall allow access to password change screens.
14. Block Acknowledge: The system shall support a block Acknowledge for Trouble Conditions
15. Sensitivity Adjust: The system shall provide Automatic Detector Sensitivity Adjust based on Occupancy schedules including a Holiday list of up to 15 days.
16. Environmental Drift Control: The system shall provide means for setting Environmental Drift Compensation by device. When a detector accumulates dust in the chamber and reaches an unacceptable level but yet still below the allowed limit, the control panel shall indicate a maintenance alert warning. When the detector accumulates dust in the chamber above the allowed limit, the control panel shall indicate a maintenance urgent warning.
17. Custom Action Messages: The system shall provide means to enter up to 100 custom action messages of up to 160 characters each. It shall be possible to assign any of the 100 messages to any point.
18. Local Mode: If communication is lost to the central processor the system shall provide added survivability through the intelligent loop control modules. Inputs from devices connected to the SLC and loop control modules shall activate outputs on the same loop when the inputs and outputs have been set with point programming to participate in local mode or when the type codes are of the same type: that is, an input with a fire alarm type code shall activate an output with a fire alarm type code.
19. Read status preview - enabled and disabled points: Prior to re-enabling points, the system shall inform the user that a disabled device is in the alarm state. This shall provide notice that the device must be reset before the device is enabled thereby avoiding activation of the notification circuits.
20. Custom Graphics: When fitted with an LCD display, the panel shall permit uploading of a custom bit-mapped graphic to the display screen.
21. Multi-Detector and Cooperating Detectors: The system shall provide means to link one detector with up to two detectors at other addresses on the same loop in cooperative multi-detector sensing. There shall be no requirement for sequential addresses on the detectors and the alarm event shall be a result of all cooperating detectors chamber readings.
22. ACTIVE EVENT: The system shall provide a Type ID called FIRE CONTROL for purposes of air-handling shutdown, which shall be intended to override normal operating automatic functions. Activation of a FIRE CONTROL point shall cause the control panel to (1) initiate the monitor module Control-by-Event, (2) send a message to the panel display, history buffer, installed printer and annunciators, (3) shall not light an indicator at the control panel, (4) Shall display ACTIVE on the

LCD as well a display a FIRE CONTROL Type Code and other information specific to the device.

23. NON-FIRE Alarm Module Reporting: A point with a type ID of NON-FIRE shall be available for use for energy management or other non-fire situations. NON-FIRE point operation shall not affect control panel operation nor shall it display a message at the panel LCD. Activation of a NON-FIRE point shall activate control by event logic but shall not cause any indication on the control panel.
24. Mass Notification Override: The system shall be UL 2572 listed for Mass Notification and shall be capable, based on the Risk Analysis, of being programmed so that Mass Notification/Emergency Communications events take precedence over fire alarm events.
25. Security Monitor Points: The system shall provide means to monitor any point as a type security.
26. One-Man Walk Test: The system shall provide both a basic and advanced walk test for testing the entire fire alarm system. The basic walk test shall allow a single operator to run audible tests on the panel. All logic equation automation shall be suspended during the test and while annunciators can be enabled for the test, all shall default to the disabled state. During an advanced walk test, field-supplied output point programming will react to input stimuli such as CBE and logic equations. When points are activated in advanced test mode, each initiating event shall latch the input. The advanced test shall be audible and shall be used for pull station verification, magnet activated tests on input devices, input and output device and wiring operation/verification.
27. Control By Event Functions: CBE software functions shall provide means to program a variety of output responses based on various initiating events. The control panel shall operate CBE through lists of zones. A zone shall become listed when it is added to a point's zone map through point programming. Each input point such as detector, monitor module or panel circuit module shall support listing of up to 10 zones into its programmed zone map.
28. Permitted zone types shall be general zone, releasing zone and special zone. Each output point (control module, panel circuit module) can support a list of up to 10 zones including general zone, logic zone, releasing zone and trouble zone. It shall be possible for output points to be assigned to list general alarm. Non-Alarm or Supervisory points shall not activate the general alarm zone.
29. 1000 General Zones: The system shall support up to 1000 general purpose software zones for linking inputs to outputs. When an input device activates, any general zone programmed into that device's zone map will be active and any output device that has an active general zone in its map will be active. It shall also be possible to use general zone as arguments in logic equations.
30. 1000 Logic Equations: The system shall support up to 1000 logic equations for AND, OR, NOT, ONLY1, ANYX, XZONE or RANGE operators that allow conditional I/O linking. When any logic equation becomes true, all output points mapped to

the logic zone shall activate.

31. 100 trouble equations per device: The system shall provide support for up to 100 trouble equations for each device, which shall permit programming parameters to be altered, based on specific fault conditions. If the trouble equation becomes true, all output points mapped to the trouble zone shall activate.
32. Control-By-Time: A time based logic function shall be available to delay an action for a specific period of time based upon a logic input with tracking feature. A latched version shall also be available. Another version of this shall permit activation on specific days of the week or year with ability to set and restore based on a 24 hour time schedule on any day of the week or year.
33. Multiple agent releasing zones: The system shall support up to 10 releasing zones to protect against 10 independent hazards. Releasing zones shall provide up to three cross-zone and four abort options to satisfy any local jurisdiction requirements.
34. Alarm Verification, by device, with timer and tally: The system shall provide a user-defined global software timer function that can be set for a specific detector. The timer function shall delay an alarm signal for a user-specified time period and the control panel shall ignore the alarm verification timer if another alarm is detected during the verification period. It shall also be possible to set a maximum verification count between 0 and 20 with the "0" setting producing no alarm verification. When the counter exceeds the threshold value entered, a trouble shall be generated to the panel.

G. Central Processing Unit
    1. The Central Processing Unit shall contain and execute all control-by-event (including Boolean functions including but not limited to AND, OR, NOT, ANYx, and CROSSZONE) programs for specific action to be taken if an alarm condition is detected by the system. Such control-by-event programs shall be held in non-volatile programmable memory, and shall not be lost with system primary and secondary power failure.
    2. The Central Processing Unit shall also provide a real-time clock for time annotation, to the second, of all system events. The time-of-day and date shall not be lost if system primary and secondary power supplies fail.
    3. The CPU shall be capable of being programmed on site without requiring the use of any external programming equipment. Systems that require the use of external programmers or change of EPROMs are not acceptable.
    4. The CPU shall provide an EIA-232 interface between the fire alarm control panel and the UL Listed Electronic Data Processing (EDP) peripherals.
    5. The CPU shall provide two EIA-485 ports for the serial connection to annunciation and control subsystem components.
    6. The EIA-232 serial output circuit shall be optically isolated to assure protection from earth ground.

H. Display
   1. The system display shall provide a 640-character backlit alphanumeric Liquid Crystal Display (LCD). It shall also provide eleven Light-Emitting-Diodes (LEDs) that indicate the status of the following system parameters: AC POWER, FIRE ALARM, PREALARM, SECURITY, SUPERVISORY, SYSTEM TROUBLE, OTHER EVENT, SIGNALS SILENCED, POINT DISABLED, CONTROLS ACTIVE, and CPU FAILURE.
   2. The system display shall provide a keypad with control capability to command all system functions, entry of any alphabetic or numeric information, and field programming. Two different password levels with up to ten (one Master and nine User) passwords shall be accessible through the display interface assembly to prevent unauthorized system control or programming.

I. Loop (Signaling Line Circuit) Control Module
   1. The Loop Control Module shall monitor and control a minimum of 318 intelligent addressable devices. This includes 159 intelligent detectors (Ionization, Photoelectric, or Thermal) and 159monitor or control modules.
   2. The Loop Control Module shall contain its own microprocessor and shall be capable of operating in a local/degrade mode (any addressable device input shall be capable of activating any or all addressable device outputs) in the unlikely event of a failure in the main CPU.
   3. Each Loop shall be capable of operating as a NFPA Style 4 (Class B) circuit.
   4. The SLC interface board shall receive analog or digital information from all intelligent detectors and shall process this information to determine whether normal, alarm, or trouble conditions exist for that particular device. Each SLC Loop shall be isolated and equipped to annunciate an Earth Fault condition. The SLC interface board software shall include software to automatically maintain the detector's desired sensitivity level by adjusting for the effects of environmental factors, including the accumulation of dust in each detector. The analog information may also be used for automatic detector testing and the automatic determination of detector maintenance requirements.

J. Digital Voice Command Center
   1. The Digital Voice Command Center located with the FACP, shall contain all equipment required for all audio control, emergency telephone system control, signaling and supervisory functions. This shall include speaker zone indication and control, telephone circuit indication and control, digital voice units, microphone and main telephone handset.
   2. Function: The Voice Command Center equipment shall perform the following functions:
      a. Operate as a supervised multi-channel emergency voice communication system.
      b. Operate as a two-way emergency telephone system control center.

c. Audibly and visually annunciate the active or trouble condition of every speaker circuit and emergency telephone circuit.
d. Audibly and visually annunciate any trouble condition for digital tone and voice units required for normal operation of the system.
e. Provide all-call Emergency Paging activities through activation of a single control switch.
f. As required, provide vectored paging control to specific audio zones via dedicated control switches.
g. Provide a factory recorded "library" of voice messages and tones in standard WAV. File format, which may be edited and saved on a PC running a current Windows® operating system.
h. Provide a software utility capable of off-line programming for the DVC operation and the audio message files. This utility shall support the creation of new programs as well as editing and saving existing program files. Uploading or downloading the DVC shall not inhibit the emergency operation of other nodes on the fire alarm network.
i. Support an optional mode of operation with four analog audio outputs capable of being used with UL 864 fire-listed analog audio amplifiers and SLC controlled switching.
j. The Digital Voice Command shall be modular in construction, and shall be capable of being field programmable without requiring the return of any components to the manufacturer and without requiring use of any external computers or other programming equipment.
k. The Digital Voice Command and associated equipment shall be protected against unusually high voltage surges or line transients.

K. Power Supply
1. The Main Power Supply shall operate on 120/240 VAC, 50/60 Hz, and shall provide all necessary power for the FACP.
2. The Main Power Supply shall provide the required power to the CPU using a switching 24 VDC regulator and shall incorporate a battery charger for 24 hours of standby power using dual-rate charging techniques for fast battery recharge.
3. The Main Power Supply shall provide a battery charger for 24 hours of standby using dual-rate charging techniques for fast battery recharge. The supply shall be capable of charging batteries ranging in capacity from 7-200 amp-hours within a 48-hour period.
4. The Main Power Supply shall provide a very low frequency sweep earth detect circuit, capable of detecting earth faults.
5. The Main Power Supply shall be power-limited per UL864 requirements.
6. The Main Power Supply shall communicate power supply, line voltage, battery status and charger status to the local LCD display. Any abnormal condition shall be annunicated and logged to the system alarm history log.

7. Addressable Charger Power SupplyThe auxiliary addressable power supply is a remote 24 VDC power supply used to power Notification Devices and field devices that require regulated 24 VDC power. . NOTIFIER model # ACPS-610
8. The addressable power supply for the fire detection system shall provide up to a minimum of 6.0 amps of 24 volt DC regulated power for Notification Appliance Circuit (NAC) power or 10.0 amps of 24 volt DC general power. The power supply shall have an additional 0.5 amp of 24 VDC auxiliary power for use within the same cabinet as the power supply. It shall include an integral charger designed to charge 12 - 200 amp hour batteries.
9. The addressable power supply shall provide four individually addressable Notification Appliance Circuits that may be configured as Class "A" or Class "B" circuits. All circuits shall be power-limited per UL 864 requirements.
10. The addressable power supply shall provide built-in synchronization for certain Notification Appliances on each circuit without the need for additional synchronization modules. The power supply's output circuits shall be individually selected for synchronization. A single addressable power supply shall be capable of supporting both synchronized and non-synchronized Notification Devices at the same time.
11. The addressable power supply shall operate on 120 or 240 VAC, 50/60 Hz.
12. The interface to the power supply from the Fire Alarm Control Panel (FACP) shall be via the Signaling Line Circuit (SLC) or other multiplexed means Power supplies that do not use an intelligent interface are not suitable substitutes. The required wiring from the FACP to the addressable power supply shall be a single unshielded twisted pair wire.
13. The addressable power supply shall supervise for battery charging failure, AC power loss, power brownout, battery failure, NAC loss, and optional ground fault detection. In the event of a trouble condition, the addressable power supply shall report the incident and the applicable address to the FACP via the SLC.
14. The addressable power supply shall have an AC Power Loss Delay option. If this option is utilized and the addressable power supply experiences an AC power loss, reporting of the incident to the FACP will be delayed. A delay time of zero, two, eight or sixteen hours shall be programmable.
15. The addressable power supply shall have an option for Canadian Trouble Reporting and this option shall be programmable.
16. The addressable power supply mounts in either the FACP backbox or it's own dedicated surface mounted backbox with cover.
17. Each of the power supply's four output circuits shall be programmed- for Notification Appliance Circuit or General Purpose 24 VDC power. Any output circuit shall be able to provide up to 2.5 amps of 24 VDC power.
18. The addressable power supply's output circuits shall be individually supervised when they are selected to be either a Notification Appliance Circuit when wired

Class "A" or by the use of and end-of-line resistor. When the power supply's output circuit is selected as General 24 VDC power, the circuit shall be individually supervised when an end-of-line relay is used.

19. When selected for Notification Appliance Circuits, the output circuits shall be individually programmable for Steady, March Time, Dual Stage or Temporal.
20. When selected as a Notification Appliance Circuit, the output circuits of the addressable power supply shall have the option to be coded by the use of a universal zone coder.
21. The addressable power supply shall interface and synchronize with other power supplies of the same type. The required wiring to interface multiple addressable power supplies shall be a single unshielded, twisted pair wire.
22. An individual or multiple interfaced addressable power supplies shall have the option to use an external charger for battery charging. Interfaced power supplies shall have the option to share backup battery power.

L. Audio Message Generator (Prerecorded Voice)/Speaker Control
   1. Each initiating zone or intelligent device shall interface with an emergency voice communication system capable of transmitting a prerecorded voice message to all speakers in the building.
   2. Actuation of any alarm initiating device shall cause a prerecorded message to sound over the speakers. The message shall be repeated four (4) times. Pre- and post-message tones shall be supported.
   3. A built-in microphone shall be provided to allow paging through speaker circuits.
   4. System paging from emergency telephone circuits shall be supported.
   5. The audio message generator shall have the following indicators and controls to allow for proper operator understanding and control:
      a. Lamp Test
      b. Trouble
      c. Off-Line Trouble
      d. Microphone Trouble
      e. Phone Trouble
      f. Busy/Wait
      g. Page Inhibited
      h. Pre/Post Announcement Tone

M. Controls with associated LED Indicators
   1. Speaker Switches/Indicators
      a. The speaker circuit control switches/indicators shall include visual indication of active and trouble status for each speaker circuit in the system.
      b. The speaker circuit control panel shall include switches to manually activate or deactivate each speaker circuit in the system.
   2. Emergency Two-Way Telephone Control Switches/Indicators

a. The emergency telephone circuit control panel shall include visual indication of active and trouble status for each telephone circuit in the system.
b. The telephone circuit control panel shall include switches to manually activate or deactivate each telephone circuit in the system.

N. Remote Transmissions
1. Provide local energy or polarity reversal or trip circuits as required.
2. The system shall be capable of operating a polarity reversal or local energy or fire alarm transmitter for automatically transmitting fire information to the fire department.
3. Provide capability and equipment for transmission of zone alarm and trouble signals to remote operator's terminals, system printers and annunciators.
4. Transmitters shall be compatible with the systems and equipment they are connected to such as timing, operation and other required features.

O. Field Programming
1. The system shall be programmable, configurable and expandable in the field without the need for special tools, laptop computers, or other electronic interface equipment. There shall be no firmware changes required to field modify the system time, point information, equations, or annunciator programming/information.
2. All field defined programs shall be stored in non-volatile memory.

P. Specific System Operations
1. Smoke Detector Sensitivity Adjust: A means shall be provided for adjusting the sensitivity of any or all addressable intelligent detectors in the system from the system keypad. Sensitivity range shall be within the allowed UL window and have a minimum of 9 levels.
2. Alarm Verification: Each of the intelligent addressable smoke detectors in the system may be independently selected and enabled to be an alarm verified detector. The alarm verification delay shall be programmable from 0 to 60 seconds and each detector shall be able to be selected for verification. The FACP shall keep a count of the number of times that each detector has entered the verification cycle. These counters may be displayed and reset by the proper operator commands.

Q. System Point Operations
1. Any addressable device in the system shall have the capability to be enabled or disabled through the system keypad or video terminal.
2. System output points shall be capable of being turned on or off from the system keypad or the video terminal.
3. Point Read: The system shall be able to display the following point status diagnostic functions without the need for peripheral equipment. Each point shall be annunciated for the parameters listed:

a. Device Status.
b. Device Type.
c. Custom Device Label.
d. Software Zone Label.
e. Device Zone Assignments.
f. Analog Detector Sensitivity.
g. All Program Parameters.

4. System History Recording and Reporting: The fire alarm control panel shall contain a history buffer that will be capable of storing up to 4000 system events. Each of these events will be stored, with time and date stamp, until an operator requests that the contents be either displayed or printed. The contents of the history buffer may be manually reviewed; one event at a time, and the actual number of activations may also be displayed and or printed. History events shall include all alarms, troubles, operator actions, and programming entries.
5. The history buffer shall use non-volatile memory. Systems which use volatile memory for history storage are not acceptable.
6. Automatic Detector Maintenance Alert: The fire alarm control panel shall automatically interrogate each intelligent system detector and shall analyze the detector responses over a period of time.
7. If any intelligent detector in the system responds with a reading that is below or above normal limits, then the system will enter the trouble mode, and the particular Intelligent Detector will be annunciated on the system display, and printed on the optional system printer. This feature shall in no way inhibit the receipt of alarm conditions in the system, nor shall it require any special hardware, special tools or computer expertise to perform.
8. The system shall include the ability (programmable) to indicate a "pre-alarm" condition. This will be used to alert maintenance personal when a detector is at 80% of its alarm threshold in a 60 second period.

R. Universal Digital Alarm Communicator Transmitter (UDACT):
1. The UDACT is an interface for communicating digital information between a fire alarm control panel and an UL-Listed central station.
2. The UDACT shall be compact in size, mounting in a standard module position of the fire alarm control cabinet. Optionally, the UDACT shall have the ability for remote mounting, up to 6,000 feet from the fire alarm control panel. The wire connections between the UDACT and the control panel shall be supervised with one pair for power and one pair for multiplexed communication of overall system status. Systems that utilize relay contact closures are not acceptable.
3. The UDACT shall include connections for dual telephone lines (with voltage detect), per UL/NFPA/FCC requirements. It shall include the ability for split reporting of panel events up to two different telephone numbers.
4. The UDACT shall be capable of transmitting events in 4+2, SIA, and Contact ID.

5. Communication shall include vital system status such as:
    a. Independent Zone (Alarm, trouble, non-alarm, supervisory)
    b. Independent Addressable Device Status
    c. AC (Mains) Power Loss
    d. Low Battery and Earth Fault
    e. System Off Normal
    f. 12 and 24 Hour Test Signal
    g. Abnormal Test Signal (per UL requirements)
    h. EIA-485 Communications Failure
    i. Phone Line Failure
6. The UDACT shall support independent zone/point reporting when used in the Contact ID format. In this format the UDACT shall support transmission of up to 3,064 points. This enables the central station to have exact details concerning the origin of the fire or response emergency.
7. The UDACT shall be capable of being programmed with the same programming utility as the host FACP, and saved, edited and uploaded and downloaded using the utility. UDACT shall be capable of being programmed online or offline. The programming utility shall also support upgrading UDACT operating firmware.
8. The UDACT shall be capable of generating Central Station reports providing detailed programming information for each point along with the central station point address.
9. An IP or IP/GSM Communicator option shall be available to interface to the UDACT and be capable of transmitting signals over the internet/intranet or Cellular (GSM) network to a compatible receiver.

S. Printer
1. The printer shall provide hard-copy printout of all changes in status of the system and shall time-stamp such printouts with the current time-of-day and date. The printer shall be standard carriage with 80-characters per line and shall use standard pin-feed paper. The printer shall be enclosed in a separate cabinet suitable for placement on a desktop or table. The printer shall communicate with the control panel using an interface complying with Electrical Industries Association standard EIA-232D. Power to the printer shall be 120 VAC @ 60 Hz.
2. The system shall have a strip printer capable of being mounted directly in the main FACP enclosure. Alarms shall be printed in easy-to-read RED, other messages, such as a trouble, shall be printed in BLACK. This printer shall receive power from the system power supply and shall operate via battery back-up if AC mains are lost. The strip printer shall be UL 864 listed.
3. The system shall have a strip printer capable of being mounted directly in the main FACP enclosure. Alarms shall be printed in easy-to-read RED, other messages, such as a trouble, shall be printed in BLACK. This printer shall receive power from the system power supply and shall operate via battery back-up if AC

mains are lost. The strip printer shall be UL 864 listed.

T. Smoke Control Annunciator
   1. On/Auto/Off switches and status indicators (LEDS) shall be provided for monitoring and manual control of each fan, damper, HVAC control unit, stairwell pressurization fan, and smoke exhaust fan. To ensure compliance the units supplied shall meet the following UL categories: UUKL, PAZX, UDTZ, QVAX as well as the requirements of NFPA 90A, HVAC, and NFPA 92A & 92B, Smoke Control. The control System shall be field programmable for either 90A operation or 92A/B operation to allow for future use and system expansion.
   2. The OFF LED shall be Yellow, the ON LED shall be green, the Trouble/Fault LED shall be Amber/Orange for each switch. The Trouble/Fault indicator shall indicate a trouble in the control and/or monitor points associated with that switch. In addition, each group of eight switches shall have two LEDS and one momentary switch which allow the following functions: An Amber LED to indicate an OFF-NORMAL switch position, in the ON or OFF position; A Green LED to indicate ALL AUTO switch position; A Local Acknowledge/Lamp Test momentary switch.
   3. Each switch shall have the capability to monitor and control two addressable inputs and two addressable outputs. In all modes, the ON and OFF indicators shall continuously follow the device status not the switch position. Positive feedback shall be employed to verify correct operation of the device being controlled. Systems that indicate on/off/auto by physical switch position only are not acceptable.
   4. All HVAC switches (i.e., limit switches, vane switches, etc.) shall be provided and installed by the HVAC contractor.
   5. It shall be possible to meet the requirements mentioned above utilizing wall mounted custom graphic.

2.4 ADDRESSABLE DEVICES – GENERAL

A. Addressable devices shall provide an address-setting means using rotary decimal switches. Addressable devices that require the address be programmed using a programming utility are not an allowable substitute.

B. Addressable devices shall use simple to install and maintain decade, decimal address switches. Devices shall be capable of being set to an address in a range of 001 to 159.

C. Addressable devices, which use a binary-coded address setting method, such as a DIP-switch, are not an allowable substitute. Addressable devices that require the address be programmed using a special tool or programming utility are not an allowable substitute.

D. Addressable devices, which use a binary-coded address setting method, such as a DIP-switch, are not an allowable substitute. Addressable devices that require the address be programmed using a special tool or programming utility are not an allowable substitute.

E. Detectors shall be intelligent (analog) and addressable, and shall connect with two wires to the fire alarm control panel Signaling Line Circuits.

F. Addressable smoke and thermal detectors shall provide dual alarm and power/polling LEDs. Both LEDs shall flash green under normal conditions, indicating that the detector is operational and in regular communication with the control panel, and both LEDs shall be placed into steady red illumination by the control panel, indicating that an alarm condition has been detected. If required, the LED flash shall have the ability to be removed from the system program. An output connection shall also be provided in the base to connect an external remote alarm LED.

G. The fire alarm control panel shall permit detector sensitivity adjustment through field programming of the system. The panel on a time-of-day basis shall automatically adjust sensitivity.

H. Using software in the FACP, detectors shall automatically compensate for dust accumulation and other slow environmental changes that may affect their performance. The detectors shall be listed by UL as meeting the calibrated sensitivity test requirements of NFPA Standard 72.

I. The detectors shall be ceiling-mount and shall include a separate twist-lock base with tamper proof feature. Base options shall include a sounder base with a built-in (local) sounder rated at 85 DBA minimum, a relay base and an isolator base designed for Style 7 applications. The system shall also support an intelligent programmable sounder base, the programmable sounder base shall be capable of providing multiple tones based on programming and at a minimum be capable of providing a Temp-4 tone for CO (Carbon Monoxide) activation and a Temp-3 tone for fire activations and be capable of being synchronized with other programmable sounder bases and common area notification appliances; 85 DBA minimum.

J. Detectors shall also store an internal identifying type code that the control panel shall use to identify the type of device (ION, PHOTO, THERMAL).

K. Detectors will operate in an analog fashion, where the detector simply measures its designed environment variable and transmits an analog value to the FACP based on real-time measured values. The FACP software, not the detector, shall make the alarm/normal decision, thereby allowing the sensitivity of each detector to be set in the FACP program and allowing the system operator to view the current analog value of each detector.

L. Addressable devices shall store an internal identifying code that the control panel shall use to identify the type of device.

M. A magnetic test switch shall be provided to test detectors and modules. Detectors shall report an indication of an analog value reaching 100% of the alarm threshold.

N. Addressable modules shall mount in a 4-inch square (101.6 mm square), 2-1/8 inch (54 mm) deep electrical box. An optional surface mount Lexan enclosure shall be available.

2.5 SMOKE DETECTOR (PHOTOELECTRIC):

A. The intelligent photoelectric smoke detector shall use the photoelectric (light-scattering) principal to measure smoke density and shall, on command from the control panel, send data to the panel representing the analog level of smoke density.

2.6 HEAT DETECTOR (FIXED TEMP, 135° OR 190°):

A. The intelligent thermal detectors shall be addressable devices rated at 135 degrees Fahrenheit (58 degrees Celsius). A high heat thermal detector rated at 190 degrees Fahrenheit shall also be available. The thermal detectors shall connect via two wires to the fire alarm control panel signaling line circuit.

2.7 ADDRESSABLE RELAY MODULE:

A. Addressable Relay Modules shall be available for HVAC control and other network building functions.

B. The module shall provide two form C relays rated at up to 3 Amps resistive and up to 2.0 Amps inductive.

C. The relay coil shall be magnetically latched to reduce wiring connection requirements, and to insure that 100% of all auxiliary devices energize at the same time on the same pair of wires;

D. For multiple relay control a module shall be available that provides 6 programmable Form-C relays.

2.8 REMOTE NOTIFICATION POWER SUPPLY:

A. RNPS shall provide additional supervised, notification appliances circuits to the fire alarm system.

B. Primary Power:

1. Provide 120 VAC service to each RNPS, transformed through a two-winding isolation-type transformer and rectified to 24 VDC for operation of alarm notification circuits. All primary power supplies for the system shall be via separate, lockable, circuit breakers, dedicated to fire alarm equipment. The circuit breakers shall be identified "Fire Alarm System" with a red and white engraved plastic sign permanently affixed to the face of the circuit breaker.

C. Auxiliary Power:

1. Provide 24 VDC auxiliary power for system operation in the event of a primary power source failure. Independent auxiliary power systems shall be located in each RNPS. Transfer from normal to auxiliary power or restoration from auxiliary to normal power shall be automatic and shall not cause transmission of a false alarm.

D. RNPS shall be provided with sufficient battery capacity to operate all output circuits upon loss of normal 120 VAC power in a normal supervisory mode for a period of twenty four (24) hours followed by 5 minutes of alarm operation at the end of this

period. The system shall automatically transfer to the standby batteries upon power failure.

E. Battery Charger:
   1. Provide solid state, automatic, variable type, battery charger, capable of recharging completely discharged batteries to fully charged condition in 24 hours or less.
      a. Batteries 24 V, rechargeable, gelled electrolyte, totally sealed, fully charged with all interconnections ready for service. Maintenance free, long-life.

F. RNPS shall be modular with solid state microprocessor based electronics. RNPS shall provide stand alone power supply for powering notification appliance circuits. RNPS shall have capacity for up to four class "B" notification appliances circuits. RNPS shall contain built in synchronization to synchronize Code 3 Temporal horns and flashes of strobes. RNPS shall provide the ability to silence horns while maintaining strobe functions. RNPS shall interface with the addressable fire alarm system by means of a Notification Appliance Circuit Module connected to the initiation circuits.

G. RNPS shall provide up to 200 milliamps of continuous auxiliary output for control functions.

2.9 STROBE:

A. The strobe shall be listed to UL 1971 and UL 1480 and be approved for fire protective signaling systems. It shall be a dual-voltage transformer strobe capable of operation at 12.0 or 24.0 nominal Vrms. It shall have an operating temperature between 32°F and 120°F. It shall mount to a 4 x 4 x 2 1/8-inch back box.

B. A universal mounting plate shall be used for mounting ceiling and wall strobe products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Strobes and the Sync Circuit Module accessory, if used, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts (includes fire alarm panels with built in sync). When used with the Sync Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 16.5 to 33 volts. If the notification appliances are not UL 9th edition listed with the corresponding panel or power supply being used, then refer to the compatibility listing of the panel to determine maximum devices on a circuit.

C. Strobes shall be plug-in and shall have the ability to check wiring continuity via a shorting spring on the universal mounting plate. The shorting spring shall also provide tamper resistance via an open circuit if the device is removed.

D. The strobe shall consist of a xenon flash tube with associated lens/reflector system and operate on either 12V or 24V. The strobe shall also feature selectable candela output, providing options for 15 or 15/75 candela when operating on 12V and 15, 15/75, 30, 75, 110, or 115 when operating on 24V. The strobe shall comply with NFPA 72 and the Americans with Disabilities Act requirement for visible signaling appliances, flashing at

1 Hz over the strobe's entire operating voltage range.

E. All notification appliances shall be backward compatible.

2.10 WEATHERPROOF SPEAKER:

A. The speaker shall be listed to UL 1480 for Fire Protective Signaling Systems. It shall be a dual-voltage transformer speaker capable of operation at 25.0 or 70.7 nominal Vrms. The speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature between 32°F and 120°F. It shall mount to a 4 x 4 x 2 1/8-inch back box.

B. A universal mounting plate shall be used for mounting ceiling and wall speaker products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate.

C. Speakers shall be plug-in and shall have the ability to check wiring continuity via a shorting spring on the universal mounting plate. The shorting spring shall also provide tamper resistance via an open circuit if the device is removed. Speaker design shall isolate speaker components to reduce ground fault incidents.

D. The speaker shall have power taps (from ¼ watt to 2 watts) and voltage that are selected by rotary switches. All models shall have a maximum sound output of 86 dB at 10 feet and shall incorporate an open back construction.

E. All notification appliances shall be backward compatible.

F.

2.11 SIGNAL CONTROL ELEMENT (SCE):

A. Signal control element shall be provided to create an additional supervised notification circuit from an addressable loop. All supervision and trouble reporting to the FACP shall be via the addressable loop.

B. Power for the device and any indicating devices shall be provided via the associated RNPS.

2.12 DUAL SYNC MODULES (DSM):

A. DSM's shall be capable of synchronizing both horns and strobes on a single pair of wires. DSM's shall synchronize two class "B" notification circuits. Horns shall be synchronized to sound in a temporal (code 3) pattern. Provide DSM's for all notification circuits supplied directly by the FACP.

2.13 WIRING:

A. See section 28 05 13. Provide wiring in accordance with NFPA 72. All wire and cable shall be listed and/or approved by a recognized testing agency for use with a protective signaling system.

B. Conductors shall be solid copper. Wiring shall be in accordance with local, state and national codes and as recommended by the manufacturer of the fire alarm system.

Conductors for 120 volt circuits shall be No. 12 AWG minimum; conductors for low-voltage DC circuits shall be No. 14 AWG minimum for annunciation circuits and No. 18 AWG minimum for initiation circuits.

C. Provide color-coded conductors. Identify conductors by plastic-coated, self-sticking, printed markers or by heat-shrink type sleeves. Each conductor used for the same specific function shall be distinctively color coded. Use different color codes for each interior alarm circuit. Each circuit color code wire shall remain uniform throughout the circuit.

D. Wire and cable not installed in conduit shall have a fire resistance rating suitable for the installation as indicated in NFPA 70 (e.g., FPLR).

E. Pigtail or "T" tap connections to evacuation alarm horns, horn/strobes and strobes are not acceptable.

2.14 CONDUITS:

A. See section 28 05 13. All fire alarm wiring from the FACP to final devices shall be run in conduit unless other wise noted.

B. Identification of Conduit: New conduits containing fire alarm system conductors shall be permanently painted with red paint at the factory. Junction boxes, covers, gutters, and terminal cabinets, containing fire alarm system conductors, shall be painted red or provided with engraved plastic identification signs permanently attached to the equipment.

C. Fire alarm circuits shall not be run in the same conduit with non-fire alarm circuits. AC circuits shall not be run in the same conduit with DC circuits.

D. Provide wiring in rigid metal conduit, except electrical metallic tubing conduit may be provided in dry locations not enclosed in concrete or where not subject to mechanical damage or vandalism.

E. Conceal conduit in finished areas of new construction and wherever practical in existing construction. Conduit runs shall be straight, neatly arranged, properly supported, and parallel or perpendicular to walls and partitions. Identify conductors within each enclosure where a tap, splice, or termination is made.

F. Underground circuit or circuits in wet areas shall be Type UF or USE cable in schedule 40 PVC conduit

PART 3 EXECUTION

3.1 INSTALLATION:

A. Equipment, materials, installation, workmanship, inspection, and testing shall be in accordance with the NFPA publications and as modified herein.

B. Follow manufacturers' directions in all cases for installation, testing and energizing.

C. Accurately set, level, support and fasten all equipment.

D. Batteries:
   1. All batteries shall have the date of installation hand written on the side in a location clearly visible to service personnel.
   2. Replace any existing batteries over 4 years old or of unknown age with new compatible, rechargeable, gelled electrolyte, totally sealed, fully charged batteries.

E. Smoke and heat detectors:
   1. Locate detectors in accordance with NFPA 72. If the proposed type of detector has an area coverage capability less than required by NFPA 72, revise detector layout and submit for approval with the detail drawings. Mount detectors at the underside of ceiling or roof decks unless otherwise indicated.
   2. No detector shall be located closer than 12 inches to any part of any lighting fixture. Detectors, located in areas subject to moisture or exterior atmospheric conditions, or hazardous locations as defined by NFPA 70, shall be approved for such locations.
   3. Smoke detectors shall not be installed prior to the system programming and test period. If construction is ongoing during this period, measures shall be taken to protect smoke detectors from contamination and physical damage.

F. Conduit where exposed shall be installed parallel with walls or structural elements; vertical runs to be plumb; horizontal runs level or parallel with structure; conduit grouped neatly together with straight runs, all bends parallels and uniformly spaced.

G. Earthquake Resistant installation/fastening of all electrical equipment shall conform to seismic code requirements. Where anchorage details are shown or not shown on the Drawings, the field installation shall be approved by a Structural Engineer.

H. All fire detection and alarm system devices, control panels and remote annunciators shall be flush mounted when located in finished areas and may be surface mounted when located in unfinished areas.

I. Manual fire alarm boxes shall be suitable for surface mounting or semi-flush mounting as shown on the plans, and shall be installed not less than 42 inches (1067 mm), nor more than 48 inches (122 mm) above the finished floor.

3.2 PRELIMINARY TESTS:

A. Before final acceptance of the work, pre-test system to demonstrate compliance with the contract requirements. System shall be subjected to complete functional and operational tests, including tests in place for each detector. Correct deficiencies pertaining to these requirements prior to formal functional and operational tests of the system. When tests have been completed and corrections made, submit test results and a signed and dated request for formal inspection and final test witnessing.

B. Conduct the following tests during installation of wiring and system components. Preliminary test shall be performed in the presence of the Local Fire Authority and Project Inspector of Record to determine conformance with the specified requirements:

1. Visually inspect all strobes and horn/strobes to ensure that strobe settings are as shown on the drawings.
2. Ground Resistance:
   a. Measure the resistance of each connection to ground. Ground resistance shall not exceed 10 ohms.
3. Dielectric Strength and Insulation Resistance:
   a. Test the dielectric strength and the insulating resistance of the system interconnecting wiring by means of an instrument capable of generating 500 volts DC and equipped to indicate leakage current in megohms. For the purpose of this test, connect the instrument between each conductor on the line and between each conductor and ground at the control panel end of the line, with the other extremity open circuited and all series-connected devices in place. The system shall withstand the test without breakdown and shall indicate a resistance of not less than 50 megohms, the measurement being taken after an electrification of 1.0 minute with a DC potential of 500 volts.
4. Standby Battery Test:
   a. Prior to formal inspection and tests, place the fire alarm system on standby battery power for twenty-four (24) hours; immediately thereafter, sound the building evacuation alarm signaling devices for 5 minutes. When the test is complete, allow fire alarm system battery charger to recharge the standby batteries for 24 hours and place the fire alarm system on standby battery power for an additional twenty-four (24) hours; immediately thereafter, sound the building evacuation alarm signaling devices for 5 minutes. Certify that the Fire Alarm System has satisfactorily sounded building evacuation alarms for 5 minutes after the second twenty-four (24) hours on battery power.

3.3 FIELD INSPECTION AND FINAL TEST:

A. Perform the formal inspection and final test in the presence of the in the presence of the manufacturer's representative, the owners representative, Local Fire Authority and Project Inspector of Record (IOR). NFPA 72 "Inspection and Testing Form" shall be filled out completely and signed by those performing and witnessing the final test:
   1. Before energizing the cables and wires, check for correct connections and test for short circuits, ground faults, continuity, and insulation.
   2. Close each sprinkler system flow valve and verify proper supervisory alarm at the FACP.
   3. Verify activation of all waterflow switches.
   4. Open initiating device circuits and verify that the trouble signal actuates.
   5. Open and short signaling line circuits and verify that the trouble signal actuates.
   6. Open and short notification appliance circuits and verify that trouble signal actuates.
   7. Ground all circuits and verify response of trouble signals.
   8. Check presence and audibility of tone at all alarm notification devices.

9. Check installation, supervision, and operation of all intelligent smoke detectors using the walk test.
10. Each of the alarm conditions that the system is required to detect should be introduced on the system. Verify the proper receipt and the proper processing of the signal at the FACP and the correct activation of the control points.
11. When the system is equipped with optional features, the manufacturer's manual shall be consulted to determine the proper testing procedures. This is intended to address such items as verifying controls performed by individually addressed or grouped devices, sensitivity monitoring, verification functionality and similar.
12. Test 100% of all automatic fire detection devices:
    a. Where application of heat would destroy any heat detector, it may be manually activated.
13. The communication loops and the indicating appliance circuits shall be opened in at least two (2) locations per zone to check for the presence of correct supervisory circuitry.

B. Test Equipment: It shall be the responsibility of the installing Contractor to furnish tools, instruments, and materials required for the thorough test of the system. This includes, but is not limited to, the following:
1. VOM meter
2. Manufacturers recommended smoke detector testing device and sensitivity test equipment.
3. Heat source for testing rate of rise heat detectors.
4. Keys to all control panels
5. Ladders

3.4 TRAINING:

A. Provide minimum four hours on site training by FACP manufacturer factory trained and authorized personnel.

B. Training sessions shall provide:
1. Instruction on operating the fire alarm system.
2. "Hands-on" demonstrations of the operations of all system components.
3. Instruct process for changing program and functions.

C. Permanently attach Sequence of Operation for fire alarm panel on wall next to FACP. Coordinate exact location with Owner.

3.5 PROJECT CLOSEOUT:

A. As Built Drawings:
1. Provide in accordance with section 28 05 00.
2. Provide a complete set of reproducible "as-built" drawings showing installed wiring, color coding, and wire tag notations for exact locations of all installed equipment, specific interconnections between all equipment, and internal wiring

of the equipment upon completion of system:

a. Drawings shall include actual voltage drop calculations as installed for all new or modified notifications circuits.
b. Drawings shall include actual battery calculations as installed for any new FACP's or RNPS's or any FACP's or RNPS's whose loads have been modified.

B. Operating and Instruction Manuals:
1. Operating and instruction manuals shall be submitted prior to testing of the system. Four (4) complete sets of operating and instruction manuals shall be delivered to the owner upon completion.
2. Complete, accurate, step-by-step testing instructions giving recommended and required testing frequency of all equipment, methods for testing each individual piece of equipment, and a trouble shooting manual explaining how to test the primary internal parts of each piece of equipment shall be delivered to the owner upon completion of the system.
3. Maintenance instructions shall be complete, easy to read, understandable, and shall provide the following information:
a. Instruction on replacing any components of the system, including internal parts.
b. Instructions on periodic cleaning and adjustment of equipment with a schedule of these functions.
c. A complete list of all equipment and components with information as to the address and telephone number of both the manufacturer and local supplier of each item.
d. User operating instructions shall be provided prominently displayed on a separate sheet located next to the control unit in accordance with U.L. Standard 864.

END OF SECTION

SECTION 32 31 19 – ORNAMENTAL STEEL FENCES AND GATES

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Ornamental Fence Framework and Accessories.

B. Swing Gates and related hardware

C. Installation.

1.2 RELATED SECTIONS

A. Section 03 30 00: Cast-In-Place Concrete.

B. Section 05 50 00: Metal Fabrication.

C. Section 08 71 00: Finish Hardware.

1.2 REFERENCES

A. American Society for Testing of Materials (ASTM):
1. ASTM B117 - Practice for Operating Salt-Spray (Fog) Apparatus.
2. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes.
3. ASTM D523 - Test Method for Specular Gloss.
4. ASTM D822 - Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus.
5. ASTM D1654 - Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
6. ASTM D2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.
7. ASTM D2794 - Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
8. ASTM D3359 - Test Method for Measuring Adhesion by Tape Test.

1.4 SYSTEM DESCRIPTION

A. The manufacturer shall supply a complete ornamental fencing system including all components defined herein (fence panels, posts, gates and hardware).

1.5 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Shop Drawings: Submit prior to fabrication. Indicate sizes, shapes, thickness, and types of materials, finishes, fabrication details, anchors, connections, and relationship to adjacent Work. Include complete details of fence and gate construction, gate hardware, fence height, post spacing, dimensions and unit weights of framework and concrete footing details. Actual samples and certificates of compliance may be requested.

1.6 QUALITY ASSURANCE

A. Reference Standards: The 2022 Code of Regulations CCR, CFC, CMC, CPC, CEC Govern
Reference Standards: The 2022 Code of Regulations CCR, CFC, CMC, CPC, CEC Govern

1. Title 19 CCR, Public Safety, State Fire Marshall Regulations
2. Title 24 CCR, Part 1 - 2022 Building Standards Administrative Code
3. Title 24 CCR, Part 2 - 2022 California Building Code, VOL. 1&2 (CBC) (2018 IBC, as Amended by CA
4. Title 24 CCR, Part 3 – 2022 California Electrical Code (CEC) (2017 NEC, as Amended by CA)
5. Title 24 CCR, Part 6 - 2022 California Energy Code
6. Title 24 CCR, Part 9 - 2022 California Fire Code (CFC) (2018 IFC, as Amended by CA
7. Title 24 CCR, Part 12 - 2022 California Reference Standards
8. 2010 ADA Standards for Accessible Design
9. Americans with Disabilities Act (ADA), Title II or Title III.

B. The Contractor shall be familiar with the construction methods and material involved in ornamental iron fencing.

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver to the job site materials in good condition, site verify all components are in good condition and all parts are included and properly protected against damage to factory finished surface.

B. Store materials off ground, under cover. Protect from damage or deterioration.

C. Handle materials to prevent damage to surface, edges, ends, and factory applied finishes of items. Damaged material shall be rejected and replaced.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. The industrial ornamental fence system shall conform to Montage II Commercial, 3-Rail, Majestic style manufactured by Ameristar Fence Products, Inc., in Tulsa, Oklahoma.

C. Or approved equal. See 01 60 00 for Substitution requirements

2.2 MATERIALS

A. Steel material for fence panels and posts shall conform to the requirements of ASTM A653/A653M, with a minimum yield strength of 45,000 psi (310 MPa) and a minimum zinc (hot-dip galvanized) coating weight of 0.60 oz/ft^2 (184 g/m^2), Coating Designation G-60.

B. The manufactured framework shall be subjected to the Ameristar thermal stratification coating process (high-temperature, in-line, multi-stage, and multi-layer) including, as a minimum, a six-stage pretreatment/wash and an electrostatic spray application of a polyester finish. The topcoat shall be a "no-mar" TGIC polyester powder coat finish with a minimum thickness of 2 mils (0.0508mm).

C. Material for fence pickets shall be 1" square x 14ga. thick extruded tubing. The cross-sectional shape of the rails shall conform to the manufacturer's design with outside cross-section dimensions of 1." square X 14ga. Picket holes in the rail shall be spaced 4.75" o.c., except for Invincible style 6' long, which shall be, spaced 4.75" o.c. Picket retaining rods shall be 0.125" diameter galvanized steel. Fence posts and gate posts shall meet the minimum size requirements of Table 1. High quality PVC grommets shall be supplied to seal all picket-to-rail intersections.

D. Material for top rails, uprights and diagonal rails shall be 2" square X 12ga.

E. Bracket to rail attachments shall be made using specially designed one-way tamperproof security nuts with carriage bolt. Bracket to post connections shall be made using self-drilling hex-head screws.

F. Swing Gates: Pickets for swing gates shall be 1.75" X 14ga forerunner double channel rail, 2" sq. X 14ga pickets Frames for gates shall be of sufficient size and thickness to provide an adequate support without sag. Adjustable trussing may be required. Gate hardware shall be supplied by the manufacturer and shall be of sufficient size and

capacity to support the gate specified. Gates that exceed 6′ shall have a 1.75″ X 14ga intermediate upright and a cable kit shall be provided for all gates over 6′.

1. Pedestrian swing gates shall be self-closing, having a gate leaf no larger than 48″ width. Integrated hinge-closer set (2 qty) shall be ADA compliant that shall include a variable speed and final snap adjustment with compact design (no greater than 5″ x 6″ footprint). Hinge-closer set (2 qty) shall be tested to a minimum of 500,000 cycles and capable of self-closing gates up to a maximum gate weight of 260 lbs. and maximum weight load capacity of 1,500 lbs. Hinge-closer device shall be externally mounted with tamper-resistant security fasteners, with full range of adjustability, horizontal (.5″ - 1.375″) and vertical (0 - .5″). Maintenance free hinge-closer set shall be tested to operate in temperatures of negative 20 F to 200 F degrees, and swings to negative 2 degrees to ensure reliable final lock engagement.

2. Swing gates shall be fabricated using 1.75″ x 14ga Forerunner double channel rail, 2″ sq. x 12ga. gate ends, and 1″ sq. x 14ga. pickets. Gates that exceed 6′ in width will have a 1.75″ sq. x 14ga. intermediate upright. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall also be joined by welding. Gusset plates will be welded at each upright to rail intersection. Cable kits will be provided for additional trussing for all gates leaves over 6′.

3. Swing Gates with an out-to-out leaf dimension less than and including 72 inches shall be fabricated using Montage Commercial ornamental panel material and 1″ sq. x 14ga. gate ends. Gate leaf's greater than 72 inches shall be fabricated using rails, 17-gauge pickets, intermediate uprights, gussets and 3″ sq. x 14ga. gate ends. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall also be joined by welding.

4. Rolling Gates: Steel material for roll gate components (i.e. pickets, rails, diagonals and uprights), shall be commercial steel with a minimum yield strength of 45,000 psi (344 MPa).
    1. Ornamental picket material shall be 1″ square x 14 Ga. Tubing. Picket spacing shall be 4-3/4″. Material for top rails, uprights and diagonals rails shall be 2″ square x 12 Ga. Material for the bottom rail shall be 2″ x 4″ x 11 Ga. Posts shall be a minimum of 4″ square x 11 Ga.

2.3 FABRICATION (refer to drawings for fence fabrication elevations)

A. Pickets, rails and posts shall be pre-cut to specified lengths. Rails shall be pre-punched to accept pickets.

B. The rail inner slide shall be fully inserted into the rail outer channel to form the raceway for the internal retaining rod. Grommets shall be inserted into the pre-punched holes

in the rails, and pickets shall be inserted through the grommets so that pre-drilled picket holes align with the internal raceway of the two-part rails. by using an alignment template. Retaining rods shall be inserted into each rail so that they pass through the pre-drilled holes in each picket, thus completing the panel assembly.

C. Gates with an out-to-out leaf dimension less than and including 72 inches shall be fabricated using Montage Commercial Ornamental panel material and 3″ sq. x 14ga. gate ends. Gate leaf's greater than 72 inches shall be fabricated using standard 1 ½″ rails 14-gauge pickets, intermediate uprights, gussets and 2″ sq. x 14ga. gate ends. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall also be joined by welding.

D. Completed fence panels shall be capable of supporting a 300 lb. load (applied at midspan) without permanent deformation. Panels shall be bias able (slope) to a 25% change in grade.

E. Completed rolling gates shall be capable of supporting a 200 lb. load (applied at midspan) without permanent deformation.

2.4 CONCRETE MIX

A. ASTM C94 Portland cement concrete with maximum 3/4 inch aggregate having a minimum compressive strength of 3,000 psi at 28 days.

2.5 FENCE COMPONENTS

A. Installations to 8 feet high:
   1. See tables in PART 3

2.6 SWING GATES

A. Gate frames shall match panels in design and finish, fabricated from materials as shown on Gate Schedule.

B. Install gates using manufacturer recommended gate hardware.

C. Swing Gates:
   1. Gates shall be fabricated as detailed on drawings. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall be joined by welding.
   2. Pedestrian Gate Hardware: Lever latch set into steel lock box.

3. Vehicular Gate Hardware: Fork type latch with gravity drop and provision for padlock; center gate stop and drop rod where indicated, three 180 degree gate hinges minimum per leaf.
4. Man gates: 10 inch minimum high perforated steel kick plate at gate bottom, tack weld to frame and clip for fabric, on push side of gate.

2.7 ROLLING GATES

A. Pickets/pales, rails, uprights and posts shall be precut to specified lengths. Diagonals shall be precut to specified lengths and angles. Frame materials shall be joined by welding. Pickets/pales shall be face welded to roll gate frame, except for Invincible or Gauntlet style gates over 18' long. Invincible or Gauntlet style gates over 18' long shall have pickets face-welded to 2" x 2" angle iron to form panels equal in length to the gate frame bay width.

1. Gates shall be fabricated as detailed on drawings. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall be joined by welding.
2. Pedestrian Gate Hardware: Lever latch set into steel lock box.

2.8 FINISH

A. The color shall be Black. The stratification-coated framework shall be capable of meeting the performance requirements for each quality characteristic.

PART 3 - EXECUTION

3.1 PREPARATION

A. The Contractor shall layout the new fence in accordance with the fence construction plans, Shop Drawings, and all applicable requirements and codes.

B. The Contractor shall verify any grade changes or surface irregularities.

C. Discrepancies between the approved Shop Drawings and field conditions must be approved by the Architect prior to proceeding with the installation.

3.2 FABRICATION

A. Fabricate ornamental fences and gates in accordance with approved Shop Drawings.

B. Connections shall be welded unless otherwise shown on Drawings.

3.3 FENCE INSTALLATION

A. Install fences and gates in accordance with approved Shop Drawing and in accordance with International Fence Industry Association Standards.

B. Refer to manufacturers Tables and requirements for installation requirements.

C. Isolate dissimilar materials by separating with bituminous paint or caulking tape. Protect prefinished surface from damage.

D. Install fences and gates to achieve clearances less than or equal to those shown on the Drawings.

E. Truss and brace as necessary.

F. All posts to be set in concrete footings (minimum) as indicated on Drawings. Space posts 8 feet on center maximum and/OR as noted on plans.

G. Fence posts shall be set plumb and level at spaces shown on the Drawings. Footings shall be of the sizes indicated. Post caps shall be as indicated on the Drawings.

H. Fence post shall be spaced according to drawings plus or minus ½". For installations that must be raked to follow sloping grades, the post spacing dimension must be measured along the grade.
   1. Fence panels shall be attached to posts with brackets supplied by the manufacturer.
   2. Posts shall be set in concrete footers having a minimum depth of 36" (Note: In some cases, local restrictions of freezing weather conditions may require a greater depth). The "Earthwork" and "Concrete" sections of this specification shall govern material requirements for the concrete footer.
   3. Posts setting by other methods such as plated posts or grouted core-drilled footers are permissible only if shown by engineering analysis to be sufficient in strength for the intended application and must be approved in writing by the Architect..

3.4 FENCE INSTALLATION MAINTENANCE

A. When cutting/drilling rails or posts adhere to the following steps to seal the exposed surfaces.
   1. Remove all metal shavings from cut area.

2. Apply custom finish paint matching fence color.
3. Failure to seal exposed surfaces per steps 1& 2 above will negate warranty and *IS NOT ACCEPTABLE*.
4. Ameristar spray cans or paint pens shall be used to prime and finish exposed surfaces; it is recommended by the manufacturer that paint pens be used to prevent overspray.
5. Use of non-Ameristar parts or components will negate the manufactures' warranty and is *NOT ACCEPTABLE*.

3.5 SWING GATE INSTALLATION

A. Gates shall be installed plumb and level and shall be the sizes and style indicated on the Drawings. The Contractor shall install any gate stops that may be required. Any padlock provisions or strikes shall be field attached to assure alignment.

B. Gate posts shall be spaced according to the manufacturers' gate drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected.
   1. Type and quantity of gate hinges shall be based on the application, weight, height, and number of gate cycles.
   2. The manufacturers' gate drawings shall identify the necessary gate hardware required for the application.
   3. Gate hardware shall be provided by the manufacturer of the gate and shall be installed per manufacturer's recommendations.
   4. The Contractor shall lubricate the hinges, rollers, and other gate hardware after installation. Adjust closer function as follows: Set closer-type spring assembly opening pressure at 5 lbs. Closer delay time shall comply with CBC Chapter 11B and with the Americans with Disabilities Act (ADA) paragraph 4.13.10.
   5. All gate hardware is to be fully enclosed and protected from the elements. Provide box enclosure of same material as gate and provide Shop Drawings for Architect's review and approval.

3.6 ROLLING GATES INSTALLATION

A. Gateposts shall be set in accordance with the spacing's shown in the construction plans. The "Earthwork" and "Concrete" sections of this specification shall govern post base material requirements. 6" wheels shall be bolted to the gate (between the wheel plates welded near the ends of the gate bottom rail). The gate shall be set upright with the V-grooved wheels positioned over the pre-installed steel V-track that traverses the gate opening.

Roller guides shall be affixed to the gateposts at a height even with the gate top rail to hold the gate in a vertical position. Gate stops shall be welded to the end of the gate or track so gate cannot pass rollers in either direction.

3.7 FINISHING

A. The contractor shall clean the jobsite of excess materials; post-hole excavations shall be scattered uniformly away from posts

B. Clean and touch up all surfaces in a manner appropriate to the finish applied.

B. At completion of Work, touch up and repair damaged surfaces to the satisfaction of the Architect or Owner's Representative. Replace damaged sections as required.

Table 1 – Minimum Sizes for Montage II Posts

Fence Posts	Panel Height		
2-1/2" x 12 Ga.	Up to & Including 6' Height		
3" x 12 Ga.	Over 6' Up to & Including 8' Height		
Gate Leaf	Gate Height		
	Up to & Including 4'	Over 4' Up to & Including 6'	Over 6' Up to & Including 8'
Up to 4'	2-1/2" x 12 Ga.	3" x 12 Ga.	3" x 12 Ga.
4'1" to 6'	3" x 12Ga.	4" x 11 Ga.	4" x 11 Ga.
6'1" to 8'	3" x 12 Ga.	4" x 11 Ga.	6" x 3/16"
8'1" to 10'	4" x 11 Ga.	6" x 3/16"	6" x 3/16"
10'1" to 12'	4" x 11 Ga.	6" x 3/16"	6" x 3/16"
12'1" to 14'	4" x 11 Ga.	6" x 3/16"	6" x 3/16"
14'1" to 16'	6" x 3/16"	6" x 3/16"	6" x 3/16"

Table 2 – Coating Performance Requirements

Quality Characteristics	ASTM Test Method	Performance Requirements
Adhesion	D3359 – Method B	Adhesion (Retention of Coating) over 90% of test area (Tape and knife test).
Corrosion Resistance	B117, D714 & D1654	Corrosion Resistance over 1,500 hours (Scribed per D1654; failure mode is accumulation of 1/8" coating loss from scribe or medium #8 blisters).
Impact Resistance	D2794	Impact Resistance over 60 inch lb. (Forward impact using 0.625" ball).
Weathering Resistance	D822 D2244, D523 (60˚ Method)	Weathering Resistance over 1,000 hours (Failure mode is 60% loss of gloss or color variance of more than 3 delta-E color units).

	Table 3 – Montage II – Post Spacing By Bracket Type									
Span	For INVINCIBLE® 8’ Nominal (91-1/2” Rail)				For CLASSIC, GENESIS, & MAJESTIC 8’ Nominal (92-5/8” Rail)					
Post Size	2-1/2”	3”	2-1/2”	3”	2-1/2”	3”	2-1/2”	3”	2-1/2”	3”
Bracket Type	Industrial Flat Mount (BB301)*		Industrial Line 2-1/2” (BB319) 3” (BB320)		Industrial Universal 2.5” (BB302) 3” (BB303)		Industrial Flat Mount (BB301)		Industrial Swivel (BB304)*	
Post Settings ± ½” O.C.	94-1/2”	95”	94-1/2”	95”	96”	96-1/2”	96”	96-1/2”	*96”	*96-1/2”
*Note: When using BB304 swivel brackets on either or both ends of a panel installation, care must be taken to ensure the spacing between post and adjoining pickets meets applicable codes. This will require trimming one or both ends of the panel. When using the BB301 flat mount bracket for Invincible style, rail may need to be drilled to accommodate rail to bracket attachment.										

END OF SECTION 32 31 17

MOUNT DIABLO UNIFIED SCHOOL DISTRICT

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

INC.1 (2)

01-121440

AGENCY APPROVAL DSA# 01-121440

196

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

SYMBOLS

DRAFTING ITEMS

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

VIEW REFERENCES

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

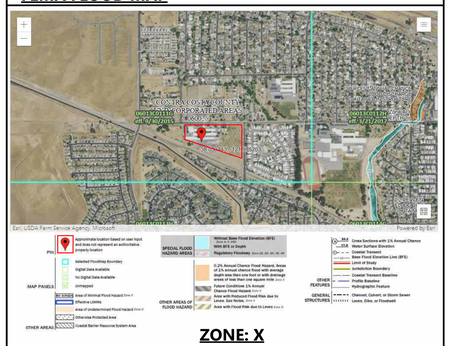
ABBREVIATIONS

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

GENERAL PROJECT NOTES - K12

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

FEMA FLOOD MAP



ZONE: X

PROJECT DESCRIPTION

INCREMENT 1 (THIS SET)

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

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

ACCESSIBILITY UPGRADES

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

INCREMENT 2

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

- RECONFIGURATION/ACCESSIBILITY UPGRADES AT TWO RESTROOM IN BUILDING 5.
- 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 ACOUSTICAL CEILING PANELS
- 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, EQUIPMENT TUNE-UP IN OTHERS.

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.

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

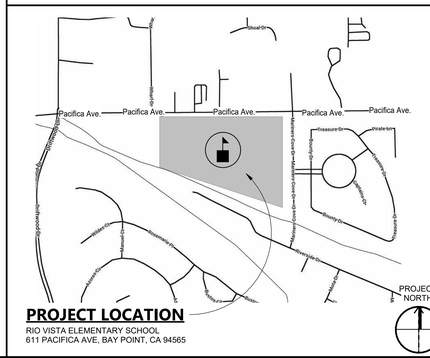
UL 521-99 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

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

SHEET INDEX

SHEET #	SHEET NAME
1. OVERALL GENERAL INFORMATION	
1G-001	TITLE SHEET
1G-002	CALGREEN CODE COMPLIANCE
1G-101	FIRE AUTHORITY SITE PLAN
1G-201	BLDG 1&2 - EXIT ANALYSIS
1G-202	BLDG 5&7 - EXIT ANALYSIS
1G-900	ACCESSIBILITY CLEARANCES
GENERAL SHEETS TOTAL: 6	
2. CIVIL ENGINEERING	
1-C1.1	DEMOLITION PLAN
1-C2.1	GRADING & DRAINAGE PLAN
1-C3.1	NOTES, LEGENDS & DETAILS
1-C3.2	DETAILS
ARCHITECTURAL SHEETS TOTAL: 4	
3. ARCHITECTURAL DRAWINGS	
1A-021	BLDG 1&2 - DEMO FLOOR PLAN
1A-022	BLDG 5&7 - DEMO FLOOR PLAN
1A-023	BLDG 1&2 - DEMO REFLECTED CEILING PLAN
1A-024	BLDG 5&7 - DEMO REFLECTED CEILING PLAN
1A-031	BLDG 1&2 - DEMO EXTERIOR ELEVATIONS
1A-032	BLDG 5&7 - DEMO EXTERIOR ELEVATIONS
1A-102	ENLARGED SITE PLAN, DEMOLITION & FENCING ELEVATIONS
1A-111	SITE DETAILS
1A-201	BLDG 1&2 - FLOOR PLAN
1A-202	BLDG 5&7 - FLOOR PLAN
1A-205	BLDG 1&2 - ROOF PLAN
1A-206	BLDG 5&7 - ROOF PLAN
1A-211	BLDG 1&2 - REFLECTED CEILING PLAN
1A-212	BLDG 5&7 - REFLECTED CEILING PLAN
1A-251	BLDG 1&2 - FINISH & SIGNAGE PLAN
1A-252	BLDG 5&7 - FINISH & SIGNAGE PLAN
1A-301	BLDG 1&2 - EXTERIOR ELEVATIONS
1A-302	BLDG 5&7 - EXTERIOR ELEVATIONS
1A-401	BUILDING SECTIONS
1A-405	BLDG 2,5&7 - WALL SECTIONS
1A-501	RESTROOM PLAN ENLARGEMENTS
1A-502	RESTROOM PLAN ENLARGEMENTS
1A-601	BLDG 2 - INTERIOR ELEVATIONS
1A-602	BLDG 2 - INTERIOR ELEVATIONS
1A-603	BLDG 2 - INTERIOR ELEVATIONS
1A-604	BLDG 5 - INTERIOR ELEVATIONS
1A-605	BLDG 5 - INTERIOR ELEVATIONS
1A-606	BLDG 5 - INTERIOR ELEVATIONS
1A-607	BLDG 7 - INTERIOR ELEVATIONS
1A-608	BLDG 7 - INTERIOR ELEVATIONS
1A-609	CASEWORK ELEVATIONS
1A-701	EXTERIOR DETAILS
1A-702	EXTERIOR DETAILS
1A-801	DOOR SCHEDULE
1A-811	WINDOW SCHEDULE
1A-821	DOOR AND WINDOW DETAILS
1A-911	WALL TYPES & DETAILS
1A-921	INTERIOR DETAILS
1A-922	CEILING DETAILS
1A-923	CEILING DETAILS
1A-924	CEILING DETAILS
1A-925	SIGNAGE DETAILS
1A-931	CASEWORK DETAILS
ARCHITECTURAL SHEETS TOTAL: 43	
4. STRUCTURAL ENGINEERING	
1S-100	GENERAL NOTES
1S-201	BUILDING 1&2 – FOUNDATION PLANS
1S-202	BUILDING 5&7 – FOUNDATION PLANS
1S-203	BUILDING 1 & 2 – ROOF FRAMING PLANS
1S-204	BUILDING 5 & 7 – FRAMING PLANS
1S-501	TYPICAL CONCRETE DETAILS
1S-502	CONCRETE DETAILS
1S-800	NAILING SCHEDULE
1S-801	FRAMING DETAILS
1S-802	FRAMING DETAILS
STRUCTURAL SHEETS TOTAL: 10	
5. MECHANICAL & PLUMBING ENGINEERING	
1MP-001	LEGENDS & NOTES - MECHANICAL & PLUMBING
1MP-002	SCHEDULES - MECHANICAL
1MP-003	SCHEDULES & SCHEMATICS MECH. & PLUMBING
1MP-004	SCHEMATICS & MECHANICAL
1MP-201	BLDG 1 MPR - DEMO & NEW FLOOR PLANS
1MP-202	BLDG 2 - DEMO & NEW FLOOR PLANS
1MP-203	BLDG 5 DEMO & NEW FLOOR PLANS
1MP-204	BLDGS 7 DEMO & NEW FLOOR PLANS
1MP-301	BLDG 1 & 5 - DEMO & NEW ROOF PLANS
1MP-302	BLDG 2 - DEMO & NEW ROOF PLANS
1MP-303	BLDG 7 - DEMO & NEW ROOF PLANS
1MP-401	BLDG 2 - DEMO & NEW RESTROOM PLANS
1MP-402	BLDGS 5 ADMIN - DEMO & NEW RESTROOM PLANS
1MP-501	CONTROLS - MECHANICAL
1MP-601	DETAILS - MECHANICAL & PLUMBING
1MP-602	DETAILS - MECHANICAL & PLUMBING
1MP-603	DETAILS - MECHANICAL & PLUMBING
1MP-801	T24 - MECHANICAL
1MP-802	T24 - MECHANICAL
MECHANICAL SHEETS TOTAL: 19	
6. ELECTRICAL ENGINEERING	
1E000	GENERAL INFORMATION
1E001	GENERAL INFORMATION
1E002	SCHEDULES
1E003	SCHEDULES
1E004	SCHEDULES
1E100	SITE PLAN
1E201	LIGHTING PLANS
1E202	LIGHTING PLANS
1E203	LIGHTING PLANS
1E204	LIGHTING PLANS
1E300	POWER & SIGNAL PLANS
1E301	POWER & SIGNAL PLANS
1E302	POWER & SIGNAL PLANS
1E303	POWER & SIGNAL PLANS
1E304	POWER & SIGNAL PLANS
1E305	POWER & SIGNAL PLANS
1E401	DETAILS
1E402	DETAILS
1E403	DETAILS
1E501	TITLE 24
1E502	TITLE 24
1E503	TITLE 24
1E504	TITLE 24
ELECTRICAL SHEETS TOTAL: 23	
7. FIRE ALARM	
1F000	GENERAL INFORMATION
1F001	SCHEDULES
1F002	SCHEDULES
1F100	SITE PLAN
1F200	FIRE ALARM PLANS
1F201	FIRE ALARM PLANS
1F202	FIRE ALARM PLANS
1F203	FIRE ALARM PLANS
1F204	FIRE ALARM PLANS
1F205	FIRE ALARM PLANS
1F301	DIAGRAMS
1F302	DIAGRAMS
1F401	DETAILS
FIRE ALARM SHEETS TOTAL: 13	
8. TECHNOLOGY ENGINEERING	
1T-000	TECHNOLOGY INFRASTRUCTURE COVER SHEET
1T-010	TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO
1T-020	TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO
1T-021	TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO
1T-100	TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW
1T-200	TECHNOLOGY INFRASTRUCTURE FLOOR PLAN NEW
1T-201	TECHNOLOGY INFRASTRUCTURE FLOOR PLAN NEW
1T-300	TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW
1T-301	TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW
1T-700	TECHNOLOGY INFRASTRUCTURE SINGLE LINES
1T-701	TECHNOLOGY INFRASTRUCTURE SINGLE LINES
1T-800	TECHNOLOGY INFRASTRUCTURE DETAILS
1T-801	TECHNOLOGY INFRASTRUCTURE DETAILS
1T-802	TECHNOLOGY INFRASTRUCTURE DETAILS
1T-803	TECHNOLOGY INFRASTRUCTURE DETAILS
TECHNOLOGY SHEETS TOTAL: 15	
OVERALL SHEET TOTAL: 133	

VICINITY MAP


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

LEGEND - SITE PLAN

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- PROJECT BUILDING MODERNIZATION INC. 1 - THIS SET
- PROJECT BUILDING MODERNIZATION INC. 2
- (N) CONCRETE PAVING PER CIVIL DRAWINGS
- (N) ASPHALT CONCRETE PAVING PER CIVIL DRAWINGS
- (N) SAFATEY DISPERSAL AREA
- (N) CHAINLINK FENCE
- (E) ORNAMENTAL FENCE
- (E) CHAINLINK FENCE
- (E) LANDSCAPING
- (E) SOLAR PANEL
- (E) BUILDING N.I.C
- (E) FIRE ENGINE ACCESS.
- (E) FIRE HYDRANT
- (E) FIRE DEPARTMENT CONNECTION
- **PATH OF EGRESS**
- **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.

LEGEND - SITE PLAN GENERAL NOTES

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

KEYNOTES

01.32.A	(E) GATE W/ 20'-0" CLEAR OPENING. INSTALL (N) KNOX BOX
01.32.B	(E) FIRE HYDRANT
01.32.C	(E) BOLLARDS
01.32.D	(E) "NO PARKING AT ANYTINE" SIGN
01.32.E	(N) SAFETY DISPERSAL AREA PER CBC 1028.5.
01.32.G	(E) GATE W/ 20'-0" CLEAR OPENING - WITH (E) KNOX BOX
01.41.B	(E) TOW AWAY SIGN. DSA #01-112054.
01.41.D	(E) ACCESSIBLE RAMP. DSA #01-105316.
01.41.E	(E) ACCESSIBLE RAMP. DSA #01-104414.
01.41.F	(E) VAN ACCESSIBLE PARKING STALL & SIGNAGE. DSA #01-112054.
01.41.G	(E) ACCESSIBLE PARKING STALL AND SIGNAGE. DSA #01-112054.
01.41.H	(E) ACCESSIBLE WHEELCHAIR LIFT. DSA #01-103384.
01.41.J	(E) ACCESSIBLE BOYS RESTROOM. DSA #01-114761.
01.41.K	(E) ACCESSIBLE GIRLS RESTROOM. DSA #01-114761.
01.41.L	(E) ACCESSIBLE ORNAMENTAL GATE W/ (E) PANIC HARDWARE.
01.41.M	(N) ACCESSIBLE STUDENT RESTROOM.
01.41.N	(N) ACCESSIBLE STAFF RESTROOM.
01.41.O	(E) GATE SIGN "GATES TO REMAIN LOCKED IN THE OPEN POSITION DURING SCHOOL HOURS OR DURING ANY PUBLIC FUNCTIONS". DSA 01-107164.
01.41.P	(E) SOLAR PANEL. DSA #01-112054.
01.41.Q	(E) PG&E SERVICE ENCLOSURE.
01.41.R	(E) HI-LOW ACCESSIBLE DRINKING FOUNTAIN. DSA #01-105316.
01.41.S	REPLACE (E) DF WITH (N) HI-LOW ACCESSIBLE DRINKING FOUNTAIN.
01.41.V	(N) DRINKING FOUNTAIN GRAB BAR RAIL. SEE ENLARGED PLAN FOR DEMOLITION NOTES
01.41.Z	(N) ACCESSIBLE PARKING STALL. INSTALL NEW SIGNAGE AT THE EXISTING WOOD FENCE.
12.00.A	(E) BICYCLE RACKS
32.00.B	EXISTING LIGHT POLE. PROTECT DURING CONSTRUCTION
32.00.H	(E) COVERED BUS STOP
32.12.A	(N) ASPHALT CONCRETE PAVING. SEE CIVIL DRAWINGS.
32.12.B	APPLY SLURRY SEAL AND REPAINT PARKING STALLS
32.13.L	(N) CONCRETE PATCH TO MATCH (E). AREA OF NEW UNDERGROUND PIPING. S.MP.D.
32.17.A	(N) SAFETY DISPERSAL STRIPING AT (E) ASPHALT TO BE PAINTED WHITE, 4" WIDE.
32.19.A	REPLACE (E) ACCESSIBLE PARKING SIGNAGE FOR NEW SIGNAGE. SEE 1A-111 SITE DETAILS.
32.31.B	(N) 4' WIDE CHAINLINK GATE
32.31.C	(N) 7' HIGH CHAINLINK FENCE
32.31.D	(N) CONCRETE PAVING. SEE CIVIL DRAWINGS.
32.92.A	PATCH LANDSCAPE WITH REMOVED DIRT. AREA OF NEW UNDERGROUND PIPING. S.MP.D.

PROJECT BUILDING INFORMATION

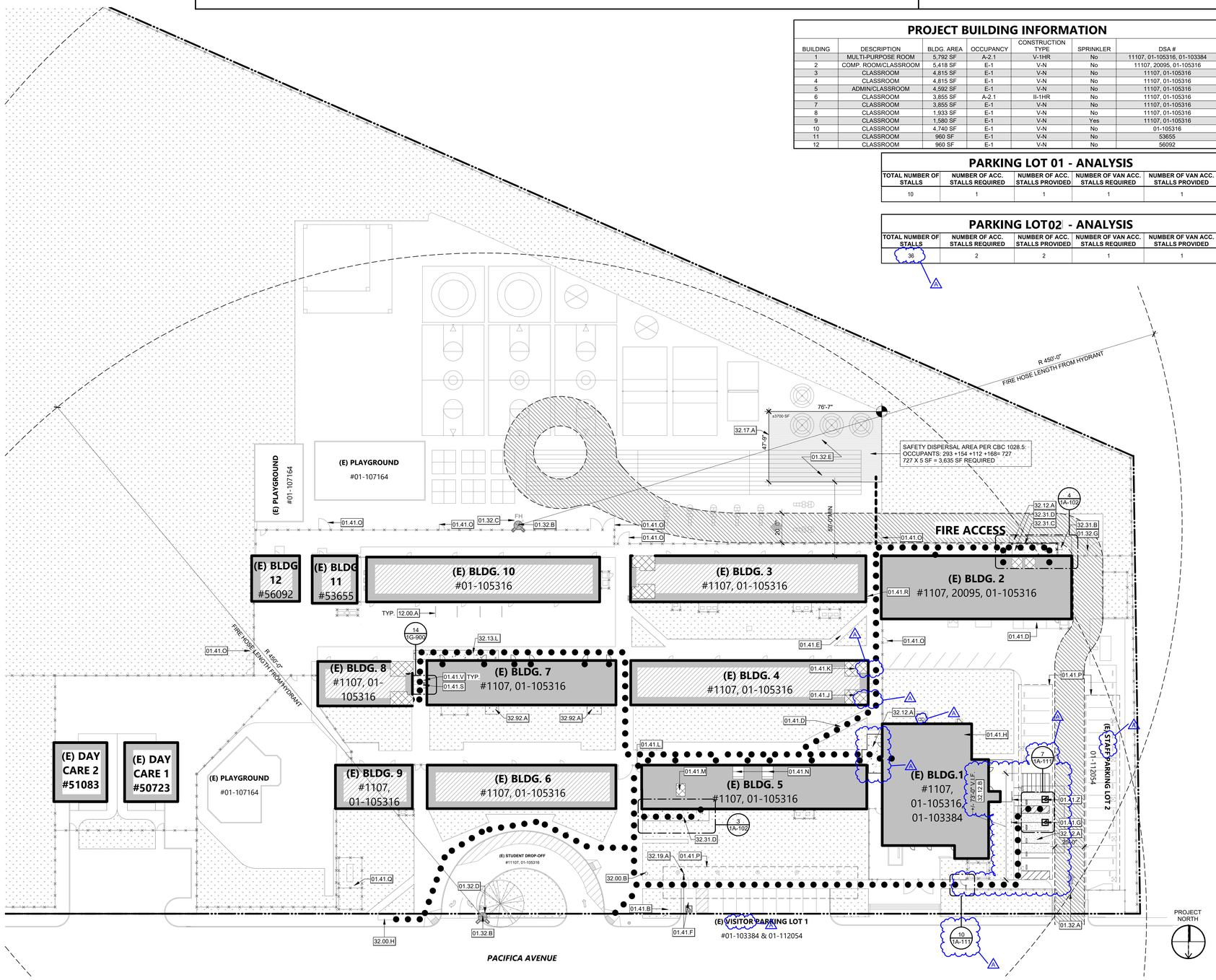
BUILDING	DESCRIPTION	BLDG. AREA	OCCUPANCY	CONSTRUCTION TYPE	SPRINKLER	DSA #
1	MULTI-PURPOSE ROOM	5,792 SF	A-2.1	V-1HR	No	11107, 01-105316, 01-103384
2	COMP. ROOM/CLASSROOM	5,418 SF	E-1	V-N	No	11107, 20095, 01-105316
3	CLASSROOM	4,815 SF	E-1	V-N	No	11107, 01-105316
4	CLASSROOM	4,815 SF	E-1	V-N	No	11107,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

PARKING LOT 01 - ANALYSIS

TOTAL NUMBER OF STALLS	NUMBER OF ACC. STALLS REQUIRED	NUMBER OF ACC. STALLS PROVIDED	NUMBER OF VAN ACC. STALLS REQUIRED	NUMBER OF VAN ACC. STALLS PROVIDED
10	1	1	1	1

PARKING LOT02 - ANALYSIS

TOTAL NUMBER OF STALLS	NUMBER OF ACC. STALLS REQUIRED	NUMBER OF ACC. STALLS PROVIDED	NUMBER OF VAN ACC. STALLS REQUIRED	NUMBER OF VAN ACC. STALLS PROVIDED
36	2	2	1	1



SITE PLAN - ACCESSIBILITY - FIRE AUTHORITY | 1" = 30'-0" | 1

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

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

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

PROJECT INFORMATION

School District/Owner:	Mt Diablo Unified School District
Project Name/School:	Rio Vista Elementary School
Project Address:	611 Pacifica Ave, Bay Point, CA 94565

FIRE & LIFE SAFETY INFORMATION

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

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

School District Acceptance of Acceptable Design Alternates

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

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: _____ Date: _____

AGENCY APPROVAL DSA# 01-121440

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

CONSULTANTS

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

MECHANICAL ENGINEER
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

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

REVISIONS

NO.	DATE	DESCRIPTION
	04-01-2024	BID SET
A	04-15-2024	ADDENDUM

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PROJECT OWNER & TITLE

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

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

FIRE AUTHORITY SITE PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

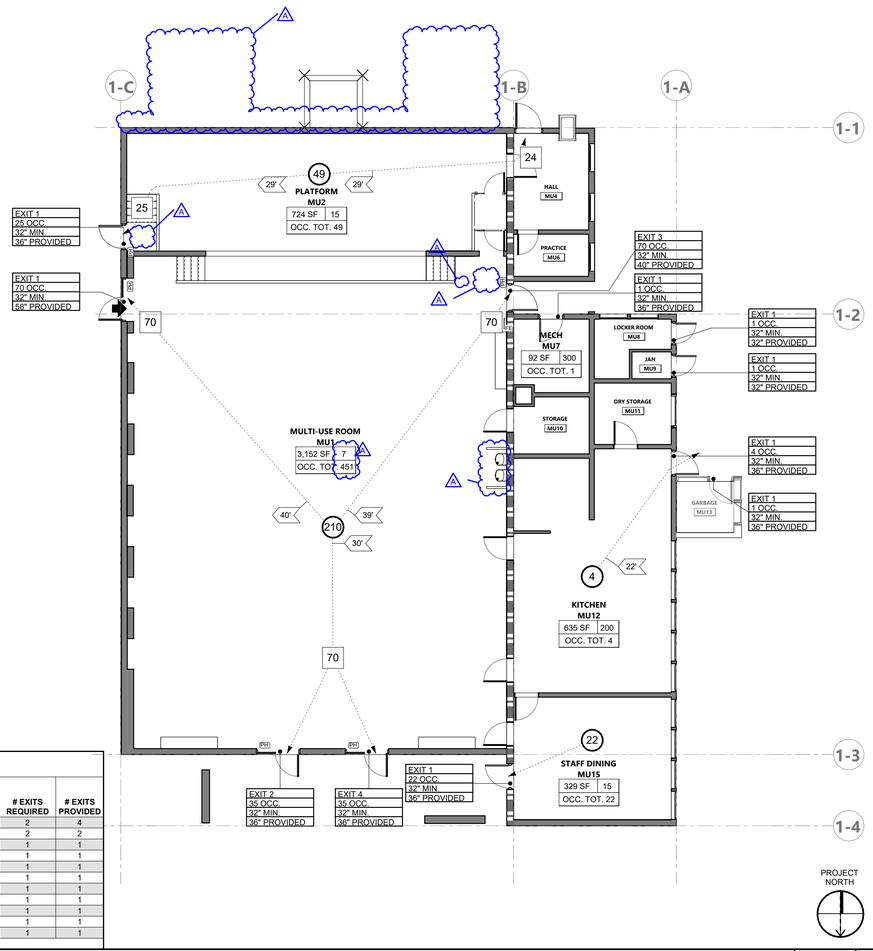
SHEET NO.

1G-101

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

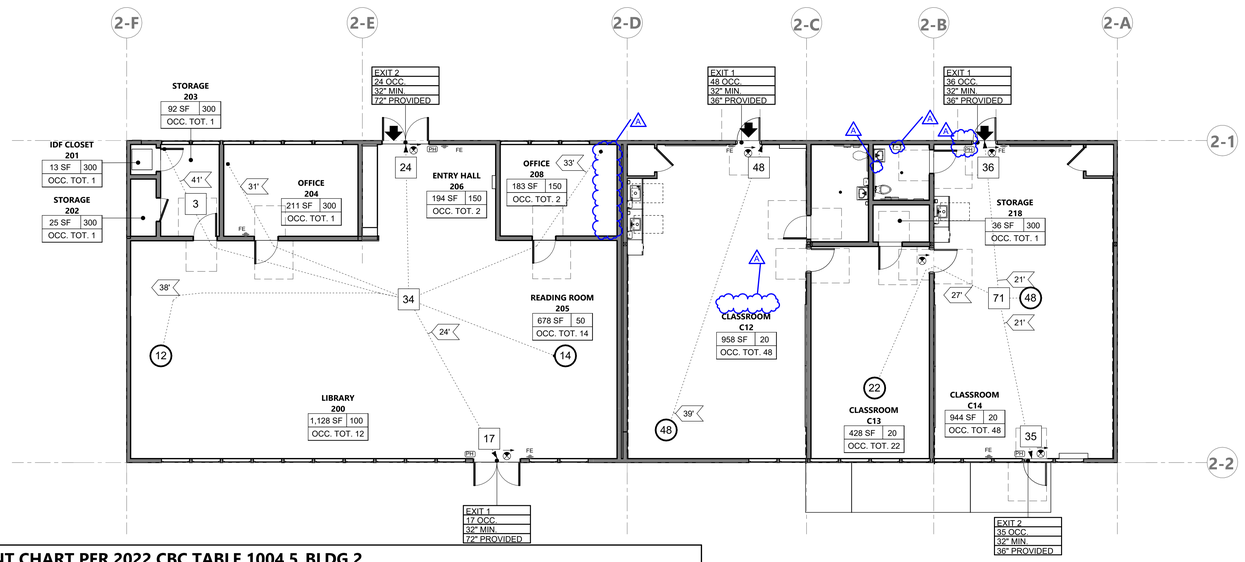
DATE PLOTTED: 4/16/2024 4:03:37 PM FILE LOCATION: Autodesk Docs://Mt Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 1

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
MU1	MULTI-USE ROOM	ASSEMBLY WITHOUT FIXED SEATS UN-CONCENTRATED (TABLES AND CHAIRS)	3,152 SF	15 SF	451	A-3	49	7'-5 7/8"	2	4
MU2	PLATFORM	ASSEMBLY WITHOUT FIXED SEATS UN-CONCENTRATED (TABLES AND CHAIRS)	724 SF	15 SF	49	A-3	49	2'-8"	2	2
MU6	PRACTICE	EDUCATIONAL SHOPS AND OTHER VOCATIONAL ROOMS	54 SF	50 SF	2	A-3	49	2'-8"	1	1
MU7	MECH	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	92 SF	300 SF	1	A-3	49	2'-8"	1	1
MU8	LOCKER ROOM	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	57 SF	300 SF	1	A-3	49	2'-8"	1	1
MU9	JAN	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	18 SF	300 SF	1	A-3	49	2'-8"	1	1
MU10	STORAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	70 SF	300 SF	1	A-3	49	2'-8"	1	1
MU11	DRY STORAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	80 SF	300 SF	1	A-3	49	2'-8"	1	1
MU12	KITCHEN	KITCHENS, COMMERCIAL	635 SF	200 SF	4	A-3	49	2'-8"	1	1
MU13	GARBAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	50 SF	300 SF	1	A-3	49	2'-8"	1	1
MU15	STAFF DINING	ASSEMBLY WITHOUT FIXED SEATS UN-CONCENTRATED (TABLES AND CHAIRS)	329 SF	15 SF	22	A-3	49	2'-8"	1	1
OCCUPANT TOTAL:					534					

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



OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 2

ROOM #	ROOM NAME	FUNCTION	N SF	SF/OCC.	OLF	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
200	LIBRARY	LIBRARY STACK AREA	1,128 SF	100 SF	100 SF	12	E	49	2'-8"	1	1
202	STORAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	25 SF	300 SF	300 SF	1	E	49	2'-8"	1	1
203	STORAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	92 SF	300 SF	300 SF	1	E	49	2'-8"	1	1
204	OFFICE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	211 SF	300 SF	300 SF	1	E	49	2'-8"	1	1
205	READING ROOM	LIBRARY READING ROOMS	678 SF	50 SF	50 SF	14	E	49	2'-8"	1	1
206	ENTRY HALL	BUSINESS AREAS	194 SF	150 SF	150 SF	2	E	49	2'-8"	1	1
208	OFFICE	BUSINESS AREAS	183 SF	150 SF	150 SF	2	E	49	2'-8"	1	1
218	STORAGE	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	36 SF	300 SF	300 SF	1	E	49	2'-8"	1	1
C12	CLASSROOM	EDUCATIONAL CLASSROOM AREA	958 SF	20 SF	20 SF	48	E	49	2'-8"	1	2
C13	CLASSROOM	EDUCATIONAL CLASSROOM AREA	428 SF	20 SF	20 SF	22	E	49	2'-8"	1	2
C14	CLASSROOM	EDUCATIONAL CLASSROOM AREA	944 SF	20 SF	20 SF	48	E	49	2'-8"	1	2
OCCUPANT TOTAL:						152					

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

LEGEND - CODE ANALYSIS

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

OCCUPANCY TAG

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

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

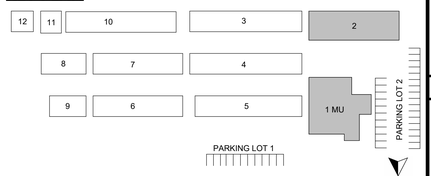
EGRESS WIDTH TAG

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

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

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

KEY PLAN



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SHEET TITLE

BLDG 1&2 - EXIT ANALYSIS

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

1G-201

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

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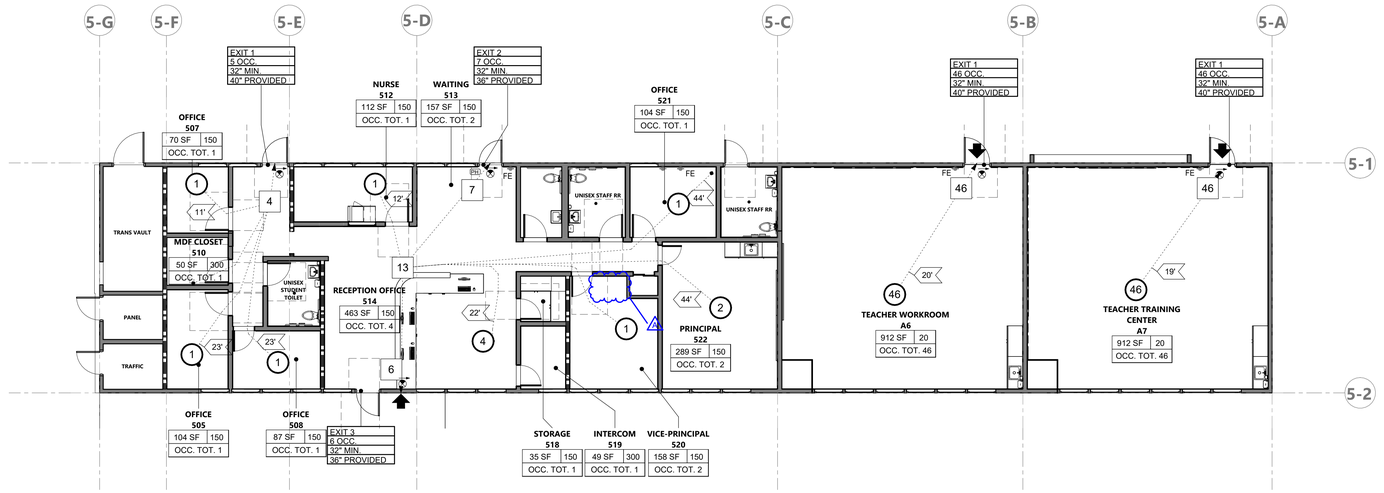
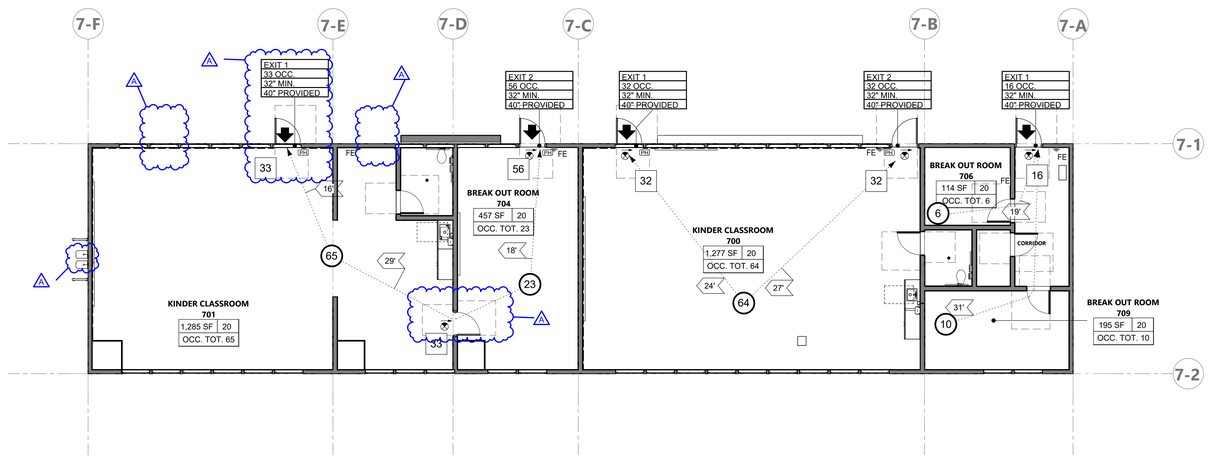


OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 5

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
501	TRANS VAULT	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	127 SF	300 SF	1	B	49	2'-8"	1	1
502	PANEL	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	45 SF	300 SF	1	B	49	2'-8"	1	1
503	TRAFFIC	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	46 SF	300 SF	1	B	49	2'-8"	1	1
505	OFFICE	BUSINESS AREAS	104 SF	150 SF	1	B	49	2'-8"	1	1
507	OFFICE	BUSINESS AREAS	70 SF	150 SF	1	B	49	2'-8"	1	1
508	OFFICE	BUSINESS AREAS	87 SF	150 SF	1	B	49	2'-8"	1	1
510	MDF CLOSET	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	50 SF	300 SF	1	B	49	2'-8"	1	1
512	NURSE	BUSINESS AREAS	112 SF	150 SF	1	B	49	2'-8"	1	1
513	WAITING	BUSINESS AREAS	157 SF	150 SF	2	B	49	2'-8"	1	1
514	RECEPTION OFFICE	BUSINESS AREAS	463 SF	150 SF	4	B	49	2'-8"	1	1
518	STORAGE	BUSINESS AREAS	35 SF	150 SF	1	B	49	2'-8"	1	1
519	INTERCOM	ACCESSORY STORAGES AREAS, MECHANICAL EQUIPMENT ROOM	49 SF	300 SF	1	B	49	2'-8"	1	1
520	VICE-PRINCIPAL	BUSINESS AREAS	158 SF	150 SF	2	B	49	2'-8"	1	1
521	OFFICE	BUSINESS AREAS	104 SF	150 SF	1	B	49	2'-8"	1	1
522	PRINCIPAL	BUSINESS AREAS	289 SF	150 SF	2	B	49	2'-8"	1	1
A6	TEACHER WORKROOM	EDUCATIONAL CLASSROOM AREA	912 SF	20 SF	46	E	49	2'-8"	1	1
A7	TEACHER TRAINING CENTER	EDUCATIONAL CLASSROOM AREA	912 SF	20 SF	46	E	49	2'-8"	1	1
OCCUPANT TOTAL:					113					

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



OCCUPANT CHART PER 2022 CBC TABLE 1004.5_BLDG 7

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
700	KINDER CLASSROOM	EDUCATIONAL CLASSROOM AREA	1,277 SF	20 SF	64	E	49	2'-8"	2	2
701	KINDER CLASSROOM	EDUCATIONAL CLASSROOM AREA	1,285 SF	20 SF	65	E	49	2'-8"	2	2
704	BREAK OUT ROOM	EDUCATIONAL CLASSROOM AREA	457 SF	20 SF	23	E	49	2'-8"	1	1
706	BREAK OUT ROOM	EDUCATIONAL CLASSROOM AREA	114 SF	20 SF	6	E	49	2'-8"	1	1
709	BREAK OUT ROOM	EDUCATIONAL CLASSROOM AREA	195 SF	20 SF	10	E	49	2'-8"	1	1
OCCUPANT TOTAL:					168					

BLDG. 7 FLOOR PLAN | 1/8" = 1'-0" | 2

LEGEND - CODE ANALYSIS

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

OCCUPANCY TAG

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

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

EGRESS WIDTH TAG

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

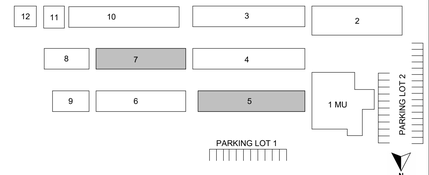
- EXIT LOCATION
- TOTAL OCCUPANTS CALCULATED
- MINIMUM EXIT WIDTH CALCULATED
- EXIT WIDTH PROVIDED

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

PROJECT NORTH

PROJECT NORTH

KEY PLAN



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BLDG 5&7 - EXIT ANALYSIS

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

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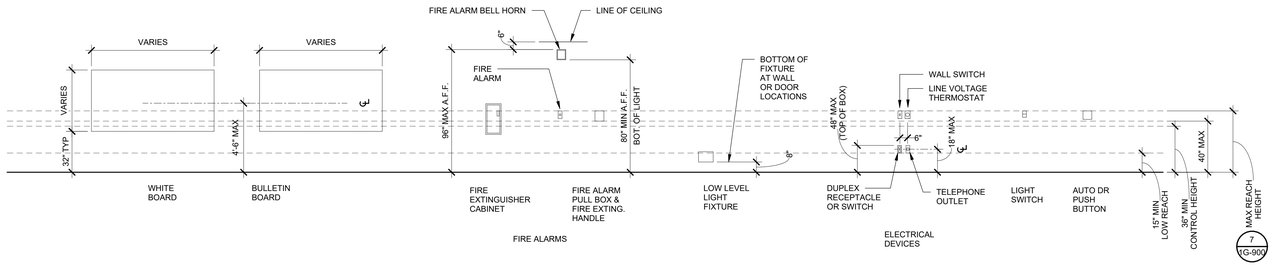
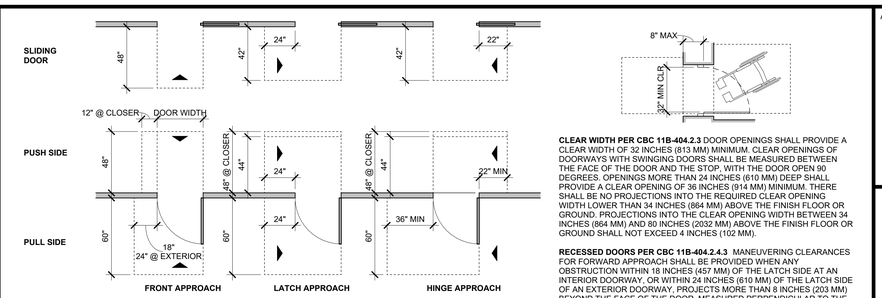


TYPICAL MOUNTING HEIGHTS | 1/4" = 1'-0" | 11



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

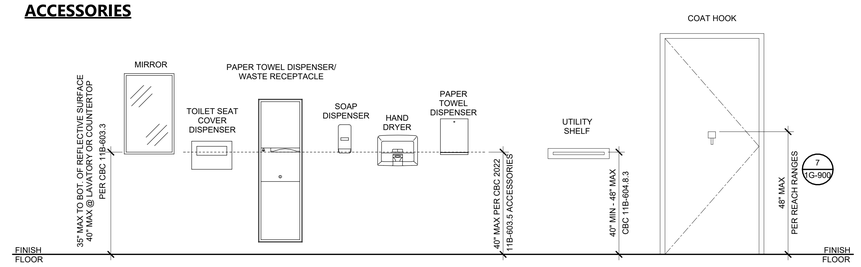
CLEAR WIDTH PER CBC 11B-404.2.3 DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (813 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE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

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

21.12.14 - 00000

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

ACCESSORIES



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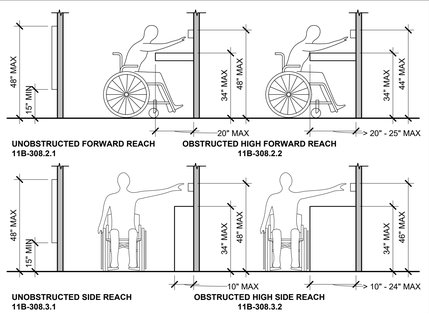
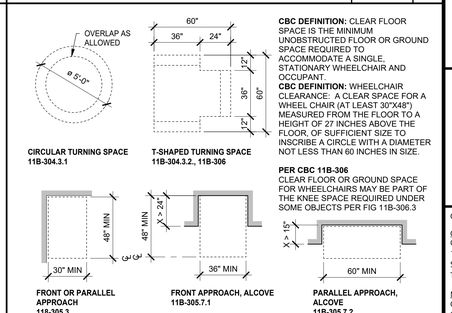
ADULT ACCESSIBLE ACCESSORY DIMENSION | 1/2" = 1'-0" | 12



21.12.14 - 00000

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

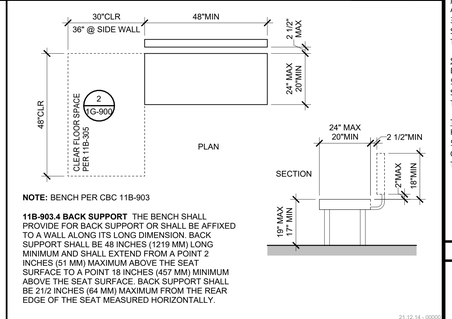


CBC DEFINITION: CLEAR FLOOR SPACE IS THE MINIMUM UNOBSTRUCTED FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT.
CBC DEFINITION: WHEELCHAIR CLEARANCE: A CLEAR SPACE FOR A WHEEL CHAIR (AT LEAST 30"X48") MEASURED FROM THE FLOOR TO A HEIGHT OF 27 INCHES ABOVE THE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

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

21.12.14 - 00000

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

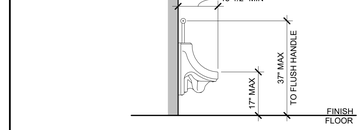


NOTE: BENCH PER CBC 11B-903

11B-903.4 BACK SUPPORT THE BENCH SHALL PROVIDE FOR BACK SUPPORT OR SHALL BE AFFIXED TO A WALL ALONG ITS LONG DIMENSION. BACK SUPPORT SHALL BE 48 INCHES (1219 MM) LONG MINIMUM AND SHALL EXTEND FROM A POINT 2 INCHES (51 MM) MAXIMUM ABOVE THE SEAT SURFACE TO A POINT 18 INCHES (457 MM) MINIMUM ABOVE THE SEAT SURFACE. BACK SUPPORT SHALL BE 21/2 INCHES (64 MM) MAXIMUM FROM THE REAR EDGE OF THE SEAT MEASURED HORIZONTALLY.

21.12.14 - 00000

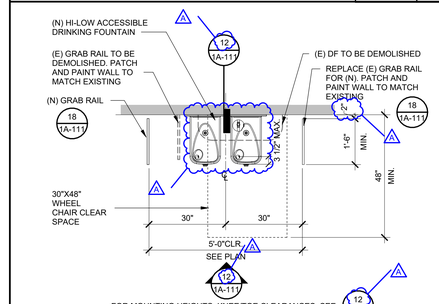
G-900_ADA BENCH W/ BACK SUPPORT | 1/2" = 1'-0" | 3



11B-605.1 GENERAL URINALS SHALL COMPLY WITH SECTION 11B-605.

21.12.14 - 00000

ADULTS ACCESSIBLE URINAL | 1/2" = 1'-0" | 13



21.12.14 - 00000

EXTERIOR DRINKING FOUNTAIN PLAN | 1/2" = 1'-0" | 14

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.

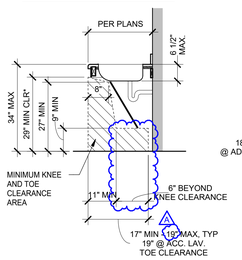
11B-606.1 GENERAL LAVATORIES AND SINKS SHALL COMPLY WITH SECTION 11B-606.

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.

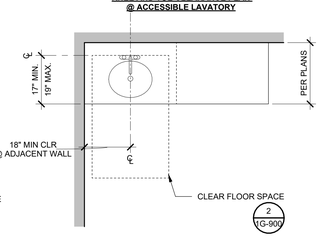
11B-805.6 HAND WASHING FIXTURES, LAVATORIES AND SINKS ALL HAND WASHING FIXTURES, LAVATORIES AND SINKS SHALL COMPLY WITH SECTION 11B-606.

KNEE AND TOE CLEARANCE SECTION



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

KNEE AND TOE CLEARANCE PLAN @ ACCESSIBLE LAVATORY



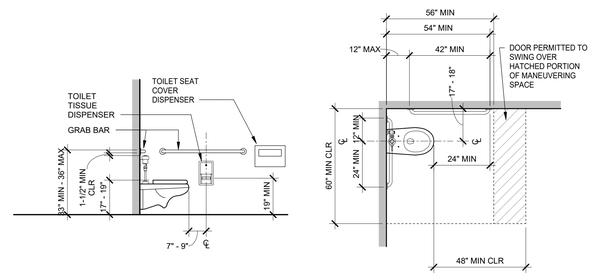
21.12.14 - 00000

KNEE AND TOE CLEARANCE | 1/2" = 1'-0" | 4

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



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ACCESSIBLE WATER CLOSET | 3/8" = 1'-0" | 5

AGENCY APPROVAL DSA# 01-121440

196

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REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE

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SHEET TITLE

ACCESSIBILITY CLEARANCES

INC.1

DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.

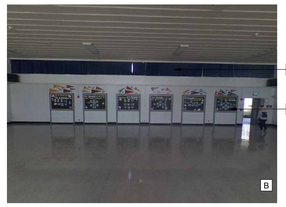
1G-900

DATE: APRIL 12, 2024

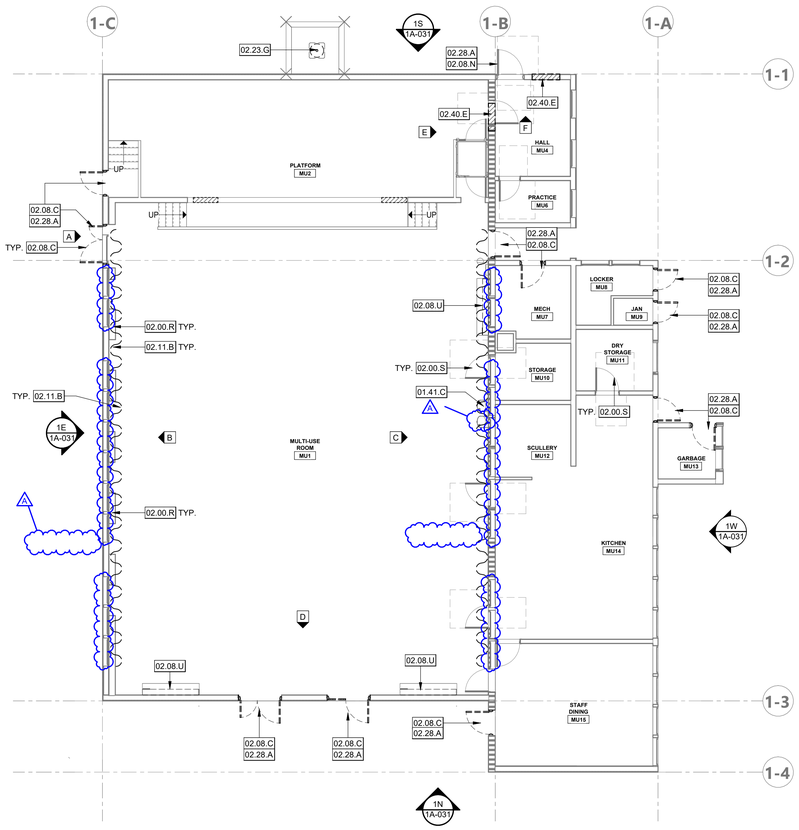
CONSTRUCTION DOCUMENTS

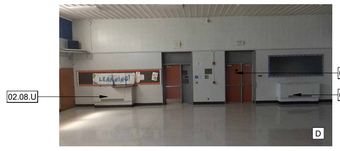
DATE PLOTTED: 4/16/2024 4:03:59 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt

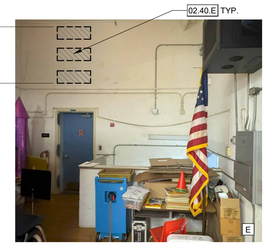


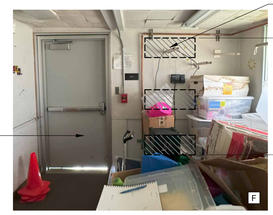












PROJECT NORTH

KEYNOTES

01.41.C (E) ACCESSIBLE DRINKING FOUNTAIN. DSA. #01-105316.
01.41.D (E) ACCESSIBLE RAMP. DSA #01-105316.
02.00.B (E) CLOCK TO BE REMOVED AND REINSTALLED AFTER WALLS ARE PAINTED
02.00.F (E) WIRE MOLD TO BE REMOVED, PROTECTED AND REINSTALLED. S.E.D.
02.00.G (E) ELECTRICAL PANEL TO BE PROTECTED IN PLACE, S.E.D.
02.00.H (E) IDF TO BE PROTECTED, S.E.D.
02.00.L (E) EXPOSED DIAGONAL SHEATHING ROOF DECK. PREPARE SURFACE FOR PAINTING.
02.00.R (E) FURNITURE TO REMAIN. PROTECT DURING CONSTRUCTION
02.00.S (E) DOOR AND FRAME TO REMAIN. PROTECT DURING CONSTRUCTION. PREPARE FOR PAINTING
02.00.W (E) STRUCTURAL POST, PARTITION WALL, AND SHEAR WALL BELOW TO REMAIN. PROTECT DURING CONSTRUCTION.
02.08.A (E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.08.B (E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.08.C (E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.08.E (E) INTERIOR DOOR AND FRAME TO BE DEMOLISHED
02.08.F (E) BORROWED LIGHT WINDOW TO BE DEMOLISHED
02.08.H (E) WINDOW AND FRAME TO BE DEMOLISHED. PROTECT OPENING
02.08.K (E) CASED OPENING FRAME TO BE DEMOLISHED. PREPARE OPENING FOR WALL INFILL.
02.08.L (E) TROPHY CASE WINDOW FRAME TO BE DEMOLISHED FOR NEW ALUMINUM FRAME AND WINDOW GLAZING
02.08.N (E) FRP DOOR TO REMAIN; REPLACE EXTERIOR SURFACE TO MATCH NEW FRP DOORS
02.08.R (E) INTERIOR POCKET DOOR AND FRAME TO BE DEMOLISHED
02.08.S (E) DOUBLE DOOR, ASSOCIATED HARDWARE AND WOOD FRAME TO BE DEMOLISHED. PREPARE FOR NEW SINGLE FRP DOOR AND METAL FRAME
02.08.T (E) WALL VENT TO BE DEMOLISHED. PREPARE SURFACE FOR NEW WALL INFILL.
02.08.U (E) MECHANICAL EQUIPMENT TO BE DEMOLISHED. PREPARE SURFACE FOR NEW WALL INFILL.
02.08.W (E) SAFETY ACCESS SCREEN AND BAR TO BE DEMOLISHED
02.08.Z (E) WIRE MESH PARTITION TO BE DEMOLISHED
02.09.A (E) GLUE-UP CEILING TILES TO BE DEMOLISHED, PROTECT (E) 2x3 FURRING STRIPS. PREPARE FOR FUTURE CEILING TILES
02.09.B (E) VCT FLOORING AND RUBBER BASE TO BE DEMOLISHED. PREPARE SUBSTRATE FOR NEW FLOORING
02.09.D (E) CARPET AND RUBBER BASE TO BE DEMOLISHED. PREPARE SUBSTRATE FOR NEW FLOORING
02.09.G (E) GLUE-UP WALL TILES TO BE DEMOLISHED, PREPARE SURFACE FOR INTERIOR PAINTING
02.09.J (E) PLYWOOD FLOORING, BRIDGING, AND JOISTS UNDERNEATH TO BE DEMOLISHED. S.S.D.
02.10.A (E) ROOM DIVIDERS TO BE DEMOLISHED
02.11.A (E) WHITEBOARDS AND TACKBOARDS TO BE REMOVED
02.11.B (E) WINDOW COVERINGS AND TRACK TO BE DEMOLISHED
02.11.C (E) PROJECTOR TO BE REMOVED, SALVAGED, & RETURNED TO THE DISTRICT
02.12.A (E) CABINETS, COUNTERTOPS, BOOKSHELVES, AND ALL RELATED ACCESSORIES TO BE DEMOLISHED
02.21.A (E) FIRE EXTINGUISHER TO BE REMOVED AND REINSTALLED. PROTECT DURING CONSTRUCTION
02.22.A (E) SINK AND (E) ACCESSORIES TO BE DEMOLISHED. PREPARE TO RECEIVE NEW SINK AND CABINET
02.22.D (E) PLUMBING FIXTURES TO BE DEMOLISHED, S.P.D.
02.23.C (E) AC SPLIT UNIT TO BE DEMOLISHED. S.MP.D.
02.23.D (E) MECHANICAL UNIT AND PLATFORM TO BE DEMOLISHED, S.M.D.
02.23.G (E) MECHANICAL EQUIPMENT AND DUCTWORK TO BE DEMOLISHED S.MP.D
02.26.A (E) LIGHT FIXTURES TO BE DEMOLISHED. PREPARE FOR (N) LIGHT FIXTURES
02.26.C (E) ELECTRICAL PANEL TO BE REMOVED/RELOCATED, S.E.D.
02.26.D (E) IDF PANEL TO BE REMOVED/RELOCATED; REFER TO TECHNOLOGY INFRASTRUCTURE PLANS
02.28.A REMOVE DOOR THRESHOLDS AS NEEDED FOR REMOVAL OF (E) FLOORING. SALVAGE AND REINSTALL
02.28.B REMOVE FLOORING TRANSITION STRIPS AS NEEDED FOR REMOVAL OF (E) FLOORING. SALVAGE AND REINSTALL
02.40.A (E) FULL-HEIGHT PARTITION WALL TO BE DEMOLISHED
02.40.B (E) EXTERIOR WALL TO BE DEMOLISHED FOR (N) 7' HIGH FRP DOOR
02.40.C (E) MEZANINE TO BE DEMOLISHED, S.S.D.
02.40.E (E) WALL PORTION TO BE DEMOLISHED FROM INTERIOR SIDE FOR NEW WOOD BLOCKING TO SUPPORT NEW ROOF ACCESS LADDER.
02.40.F (E) NOT FULL-HEIGHT PARTITION WALL TO BE DEMOLISHED
02.40.H (E) WALL TO BE DEMOLISHED AS REQUIRED FOR NEW STRUCTURAL POST. S.S.D.
02.40.I (E) WALL TO BE DEMOLISHED FOR NEW DOOR
02.40.L (E) PARTITION WALL AND SHEAR WALL BELOW TO BE DEMOLISHED. S.S.D

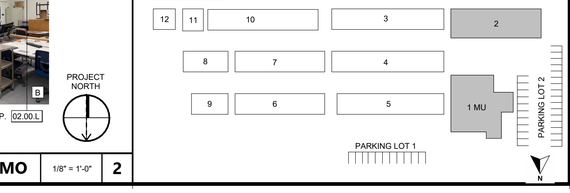
LEGEND - DEMOLITION

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

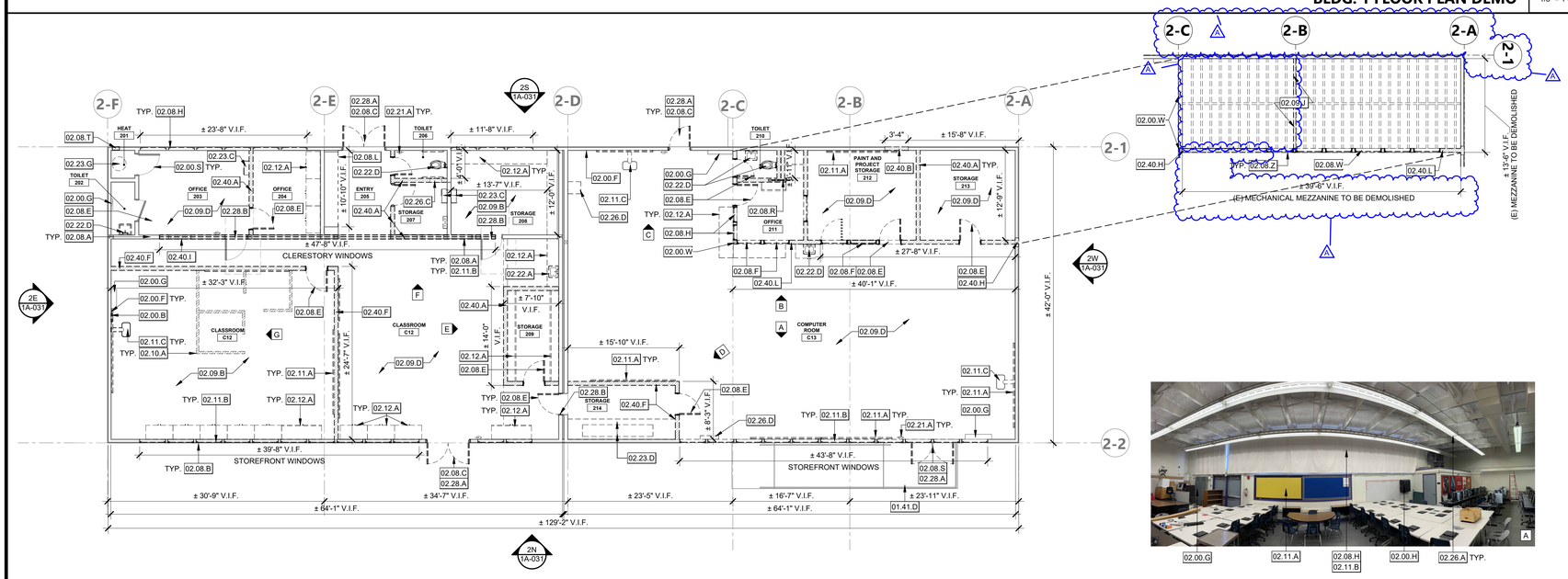
DEMOLITION NOTES

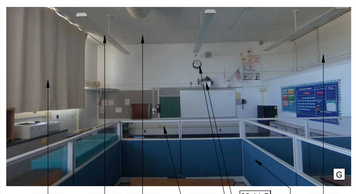
1. IN ACCORDANCE WITH PERTINENT ITEMS OF THESE NOTES AND THOSE ITEMS SO INDICATED ON THE DRAWINGS "CAREFULLY" DEMOLISH AND REMOVE FROM THE JOB SITE THOSE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED.
2. SEE SPECIFICATION SECTION 02 41 19 FOR MORE DEMOLITION NOTES, REQUIREMENTS, AND PROCEDURES.
3.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

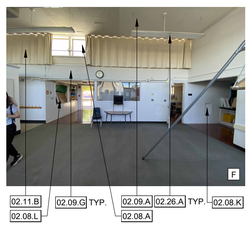
KEY PLAN

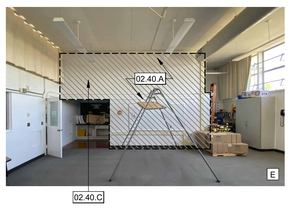


BLDG. 1 FLOOR PLAN DEMO | 1/8" = 1'-0" | 1

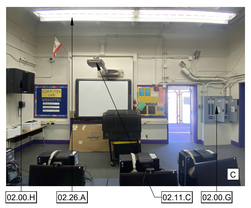


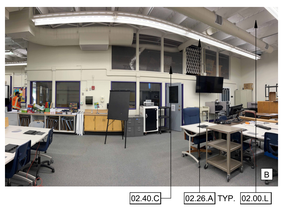












PROJECT NORTH

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

AGENCY APPROVAL DSA# 01-121440

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PROFESSIONAL STAMP

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

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SHEET TITLE

BLDG 1&2 - DEMO FLOOR PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

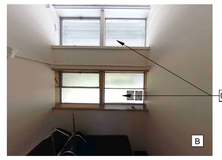
1A-021

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 3:58:12 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt

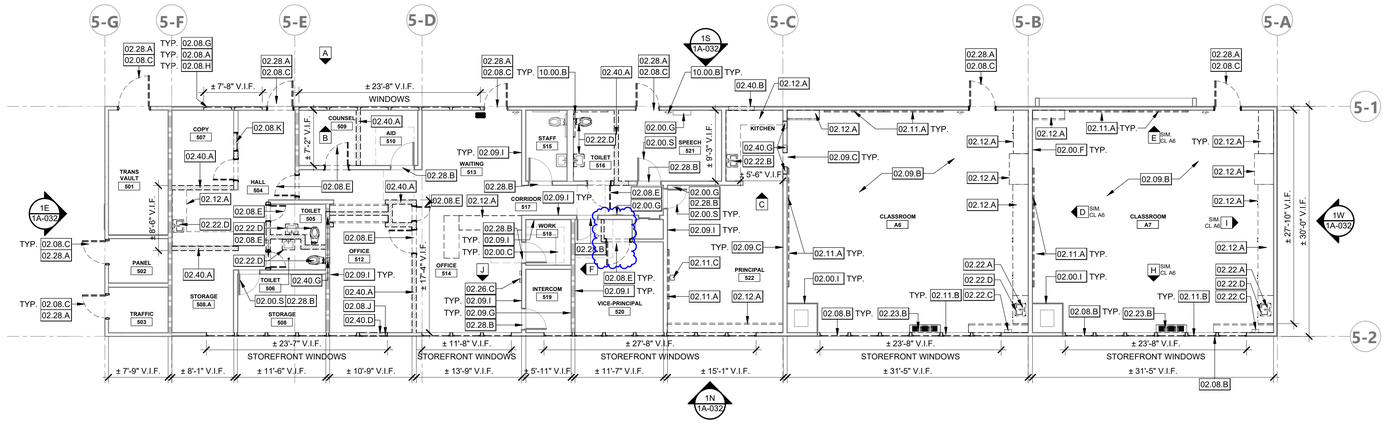


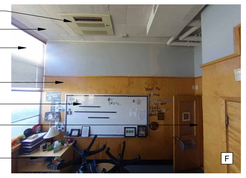






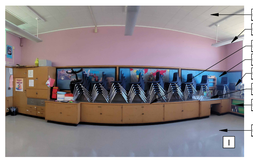












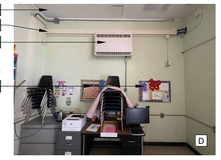
PROJECT NORTH

BLDG. 5 FLOOR PLAN DEMO | 1/8" = 1'-0" | 1

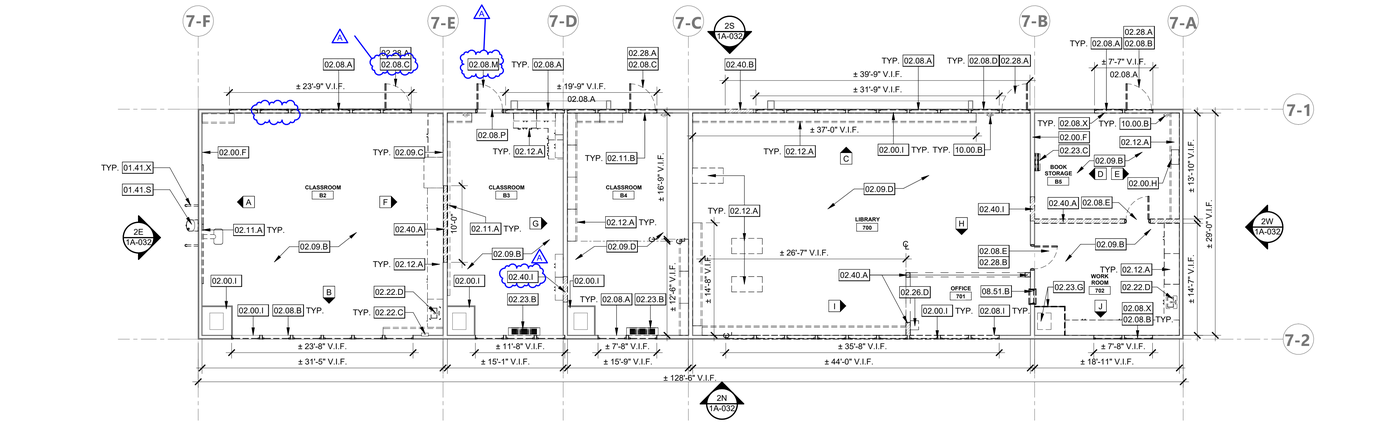


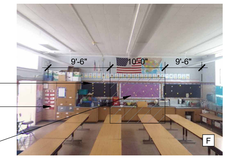


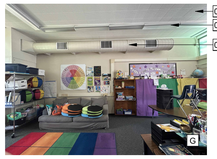






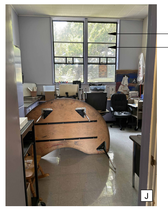












PROJECT NORTH

BLDG. 7 FLOOR PLAN DEMO | 1/8" = 1'-0" | 2

KEYNOTES

01.41.S	REPLACE (E) DF WITH (N) HI-LOW ACCESSIBLE DRINKING FOUNTAIN.
01.41.X	(E) DRINKING FOUNTAIN GRAB BAR RAIL TO BE DEMOLISHED
02.00.B	(E) CLOCK TO BE REMOVED AND REINSTALLED AFTER WALLS ARE PAINTED
02.00.C	(E) CASEWORK TO REMAIN. PROTECT DURING CONSTRUCTION
02.00.E	(E) AC SPLIT UNIT TO REMAIN. PROTECT DURING CONSTRUCTION
02.00.F	(E) WIRE MOLD TO BE REMOVED, PROTECTED AND REINSTALLED. S.E.D.
02.00.G	(E) ELECTRICAL PANEL TO BE PROTECTED IN PLACE, S.E.D.
02.00.H	(E) IDF TO BE PROTECTED, S.E.D.
02.00.I	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. PREPARE SURFACE FOR PAINTING
02.00.M	(E) MECHANICAL SUPPLY GRILLS TO REMAIN. PROTECT AND COVER FROM CONSTRUCTION DUST, S.M.D.
02.00.S	(E) DOOR AND FRAME TO REMAIN. PROTECT DURING CONSTRUCTION. PREPARE FOR PAINTING
02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.08.C	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.08.D	(E) DOOR HARDWARE TO BE DEMOLISHED
02.08.E	(E) INTERIOR DOOR AND FRAME TO BE DEMOLISHED
02.08.G	(E) WINDOW LOUVERS TO BE DEMOLISHED TYP.
02.08.H	(E) WINDOW AND FRAME TO BE DEMOLISHED. PROTECT OPENING
02.08.I	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PREPARE FOR A (N) STOREFRONT WINDOWS.
02.08.J	(E) WINDOW AND FRAME TO BE DEMOLISHED. PREPARE OPENING FOR NEW FRP DOOR.
02.08.K	(E) CASED OPENING FRAME TO BE DEMOLISHED. PREPARE OPENING FOR WALL INFILL.
02.08.M	(E) DOOR AND FRAME TO BE DEMOLISHED FOR WALL INFILL.
02.08.P	(E) THRESHOLD TO BE DEMOLISHED, PREPARE SURFACE FOR NEW
02.08.X	(E) WINDOW SECURITY SCREEN TO BE DEMOLISHED.
02.09.A	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED, PROTECT (E) 2x3 FURRING STRIPS. PREPARE FOR FUTURE CEILING TILES
02.09.B	(E) VCT FLOORING AND RUBBER BASE TO BE DEMOLISHED. PREPARE SUBSTRATE FOR NEW FLOORING
02.09.C	(E) TACKABLE WALL PANEL AND WOOD TRIM TO BE DEMOLISHED, TYP. FOR ALL WALLS
02.09.D	(E) CARPET AND RUBBER BASE TO BE DEMOLISHED. PREPARE SUBSTRATE FOR NEW FLOORING
02.09.E	(E) GYPSUM BOARD CEILING TO BE DEMOLISHED.
02.09.G	(E) GLUE-UP WALL TILES TO BE DEMOLISHED, PREPARE SURFACE FOR INTERIOR PAINTING
02.09.I	(E) WOOD PANELS AND WOOD TRIMS TO BE DEMOLISHED, TYP. FOR ALL WALLS
02.11.A	(E) WHITEBOARDS AND TACKBOARDS TO BE REMOVED
02.11.B	(E) WINDOW COVERINGS AND TRACK TO BE DEMOLISHED
02.11.C	(E) PROJECTOR TO BE REMOVED, SALVAGED, & RETURNED TO THE DISTRICT
02.12.A	(E) CABINETS, COUNTERTOPS, BOOKSHELVES, AND ALL RELATED ACCESSORIES TO BE DEMOLISHED
02.22.A	(E) SINK AND (E) ACCESSORIES TO BE DEMOLISHED. PREPARE TO RECEIVE NEW SINK AND CABINET
02.22.B	(E) HAND SOAP AND HAND SANITIZER DISPENSERS TO BE DEMOLISHED
02.22.C	(E) PAPER TOWEL DISPENSER TO BE DEMOLISHED
02.22.D	(E) PLUMBING FIXTURES TO BE DEMOLISHED, S.P.D.
02.23.B	(E) FURNACE, PREVIOUSLY ABANDONED TO BE DEMOLISHED
02.23.C	(E) AC SPLIT UNIT TO BE DEMOLISHED. S.MP.D.
02.23.G	(E) MECHANICAL EQUIPMENT AND DUCTWORK TO BE DEMOLISHED S.MP.D
02.26.A	(E) LIGHT FIXTURES TO BE DEMOLISHED. PREPARE FOR (N) LIGHT FIXTURES
02.26.C	(E) ELECTRICAL PANEL TO BE REMOVED/RELOCATED, S.E.D.
02.26.D	(E) IDF PANEL TO BE REMOVED/RELOCATED; REFER TO TECHNOLOGY INFRASTRUCTURE PLANS
02.28.A	REMOVE DOOR THRESHOLDS AS NEEDED FOR REMOVAL OF (E) FLOORING. SALVAGE AND REINSTALL
02.28.B	REMOVE FLOORING TRANSITION STRIPS AS NEEDED FOR REMOVAL OF (E) FLOORING. SALVAGE AND REINSTALL
02.40.A	(E) FULL-HEIGHT PARTITION WALL TO BE DEMOLISHED
02.40.B	(E) EXTERIOR WALL TO BE DEMOLISHED FOR (N) 7' HIGH FRP DOOR
02.40.D	(E) BOTTOM PORTION OF EXTERIOR WALL TO BE DEMOLISHED FOR NEW FRP DOOR.
02.40.G	DEMOLISH PORTION OF (E) WALL AS REQUIRED FOR NEW IN-WALL PLUMBING PIPING. S.MP.D.
02.40.I	(E) WALL TO BE DEMOLISHED FOR NEW DOOR
08.51.B	(N) FIXED HOLLOW METAL WINDOW
10.00.B	(E) FIRE EXTINGUISHER TO BE REMOVED/PROTECTED AND REINSTALLED. SEE INTERIOR ELEVATIONS FOR LOCATION.

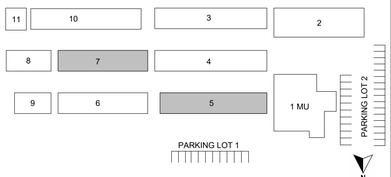
LEGEND - DEMOLITION

- (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, AND ELECTRICAL FOR ADDITIONAL DEMOLITION INFORMATION.
4. KEYNOTED ELEMENTS SCHEDULED FOR DEMOLITION ARE NOTED FOR CLARIFICATION ONLY. SEE DEMOLITION PLAN LEGEND FOR ADDITIONAL DEMOLITION REQUIREMENTS. USE ADEQUATE NUMBERS OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
5. SURFACE CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
6. DEMOLITION: BY CAREFUL STUDY OF THE DRAWINGS, DETERMINE THE LOCATION AND EXTENT OF SELECTIVE DEMOLITION REQUIRED.
7. VISIT THE SITE AND VERIFY THE EXTENT AND LOCATION OF SELECTIVE DEMOLITION REQUIRED.
8. CAREFULLY IDENTIFY LIMITS OF SELECTIVE DEMOLITION.
9. MARK INTERFACE SURFACES AS REQUIRED TO ENABLE WORKMAN ALSO TO IDENTIFY ITEMS TO BE REMOVED AND ITEMS TO BE LEFT IN PLACE INTACT.
10. PREPARE AND FOLLOW AN ORGANIZED PLAN FOR DEMOLITION AND REMOVAL OF ITEMS.
11. COMPLETELY REMOVE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED, LEAVING SURFACES CLEAN, SOLID, AND READY TO RECEIVE NEW MATERIALS SPECIFIED ELSEWHERE.
12. SALVAGE: AFTER CAREFUL REVIEW OF THE DRAWINGS SHOWING PROPOSED NEW CONSTRUCTION, IDENTIFY THOSE ITEMS THAT ARE GOOD CANDIDATES FOR RE-USE AND CAREFULLY REMOVE AND STOCKPILE THEM ON SITE IN A PROTECTED AREA.
13. DEMOLISHED MATERIALS SHALL BE CONSIDERED TO BE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED FROM THE JOB SITE, UNLESS OTHERWISE DIRECTED BY THE DISTRICT.
14. REPLACEMENTS: IN THE EVENT OF DEMOLITION OF ITEMS NOT SO SCHEDULED TO BE DEMOLISHED, PROMPTLY REPLACE SUCH ITEMS TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.
15. SEE ASBESTOS & LEAD IN PAINT SURVEY REPORT FOR RIO VISTA ELEMENTARY SHOOL PROVIDED BY ENVIRO-S.T.A.R. FOR REQUIRED ABATEMENT. BASED ON THE REPORT PROVIDED, MATERIALS IDENTIFIED FOR REMOVAL WILL BE REMOVED BY AN ABATEMENT CONTRACTOR PROPERLY LICENSED AND REGISTERED TO DO ASBESTOS & LEAD ABATEMENT.
16. TERMINATE ALL ELECTRICAL CONDUITS CONTAINED IN WALLS TO BE DEMOLISHED PER N.E.C. 2023. CONDUITS FEEDING DEMOLISHED AREAS, BUT CONTAINED WITHIN CONSTRUCTION TO REMAIN MAY BE ABANDONED IN PLACE.
17. ALL ITEMS INDICATED FOR DEMOLITION ON THIS SHEET ARE CONSIDERED TO BE NON-STRUCTURAL. DURING DEMOLITION, EVIDENCE MAY BECOME APPARENT OF A LOAD-BEARING ITEM WHICH IS SHOWN TO BE DEMOLISHED. CONTRACTOR SHALL NOT REMOVE ANY ITEMS WHICH SHOW EVIDENCE OF CARRYING ROOF LOADS, CEILING JOIST LOADS, NOR WALLS WHICH ARE SHEATHED WITH PLYWOOD WITHOUT PRIOR APPROVAL OF THE ARCHITECT EVEN IF SUCH ITEMS ARE SHOWN TO BE DEMOLISHED HEREIN.
18. SEE PLASTER DEMOLITION & REPAIR NOTES ON 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
A	04-15-2024	ADDENDUM

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

PROJECT OWNER & TITLE

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

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

SHEET TITLE

BLDG 5&7 - DEMO FLOOR PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

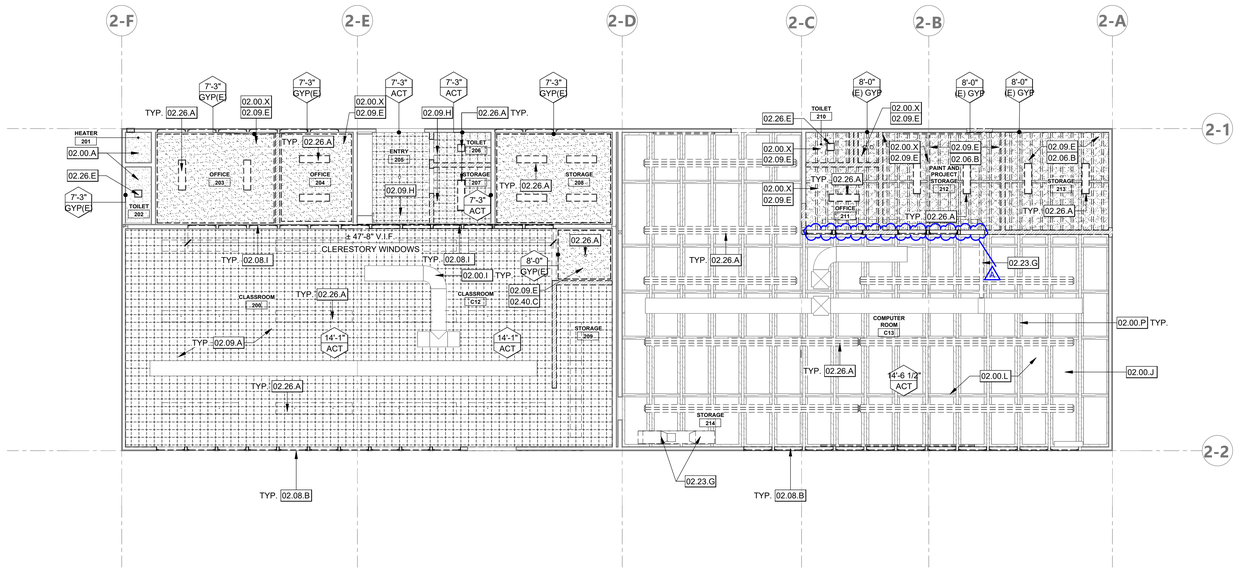
SHEET NO.

1A-022

DATE: APRIL 12, 2024

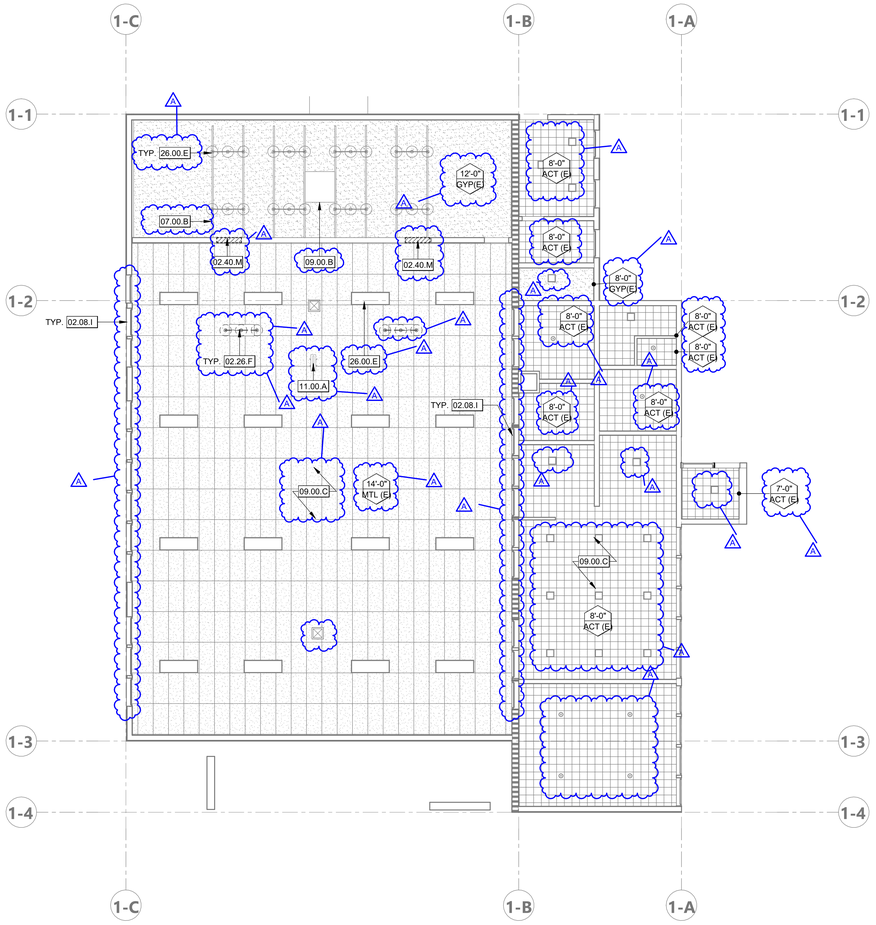
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 3:58:28 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



PROJECT NORTH

BLDG. 2 DEMO RCP | 1/8" = 1'-0" | 1



PROJECT NORTH

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

KEYNOTES

02.00.A	(E) GYP. CEILING TO REMAIN, PATCH DAMAGED CEILING FINISH AND PAINT, ASSUME 25% REPAIRS NEEDED, TYP.
02.00.I	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. PREPARE SURFACE FOR PAINTING
02.00.J	(E) TECTUM ACOUSTIC PANELS. PREPARE SURFACE FOR PAINTING.
02.00.L	(E) EXPOSED DIAGONAL SHEATHING ROOF DECK. PREPARE SURFACE FOR PAINTING.
02.00.P	(E) EXPOSED ROOF FRAMING, TYP. PREPARE SURFACE FOR PAINTING.
02.00.X	(E) CEILING FRAMING TO REMAIN. PROTECT LEDGERS, JOISTS, AND BLOCKING FOR NEW GYPSUM BOARD CEILING.
02.06.B	(E) LEDGERS, JOISTS, AND BLOCKING TO BE DEMOLISHED. SEE 2/1A-021 FOR ADDITIONAL DEMOLITION SCOPE FOR MEZZANINE.
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.08.I	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PREPARE FOR A (N) STOREFRONT WINDOWS.
02.09.A	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED, PROTECT (E) 2x3 FURRING STRIPS. PREPARE FOR FUTURE CEILING TILES
02.09.E	(E) GYPSUM BOARD CEILING TO BE DEMOLISHED.
02.09.H	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED. PATCH GYPSUM BOARD, CLEAN SURFACE, SMOOTH OUT AND PAINT
02.23.G	(E) MECHANICAL EQUIPMENT AND DUCTWORK TO BE DEMOLISHED S.MP.D
02.26.A	(E) LIGHT FIXTURES TO BE DEMOLISHED. PREPARE FOR (N) LIGHT FIXTURES
02.26.E	(E) SURFACE MOUNTED LIGHTING FIXTURE TO BE PROTECTED IN PLACE AND UPDATED TO LED
02.26.F	(E) STAGE LIGHT FIXTURES TO BE DEMOLISHED.
02.40.C	(E) MEZZANINE TO BE DEMOLISHED, S.S.D.
02.40.M	(E) WALL PORTION TO BE DEMOLISHED REQUIRED FOR NEW MECHANICAL DUCTWORK.
07.00.B	(E) LIGHTING STAGE ROD TO REMAIN. PROTECT DURING CONSTRUCTION.
09.00.B	(E) CEILING OPENING.
09.00.C	(E) GLUE-UP ACOUSTICAL CEILING TILES. NO NEW WORK.
11.00.A	(E) EQUIPMENT TO REMAIN
26.00.E	(E) LIGHTING FIXTURE TO REMAIN. PROTECT DURING CONSTRUCTION.

DEMO CEILING GENERAL NOTES

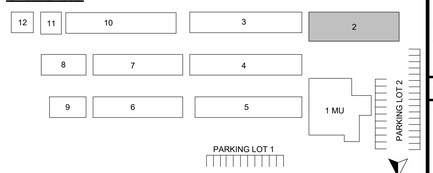
1. COORDINATE WITH ELECTRICAL, MECHANICAL, PLUMING DRAWINGS FOR DEMOLITION WORK
2. (E) FINISHES, EQUIPMENT, CONDUITS, ETC. INDICATED TO REMAIN, SHALL BE PROTECTED DURING CONSTRUCTION.
3. AT CEILINGS TO BE REMOVED, REMOVE ALL CEILINGS, SOFFITS, RELATED SUPPORT SYSTEMS AND ACCESSORIES, AND CEILING MOUNTED 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) FRAMING AND BLOCKING TO BE PROTECTED
- (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) HVAC SYSTEM 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



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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION
	04-01-2024	BID SET
A	04-15-2024	ADDENDUM

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PROJECT OWNER & TITLE

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SHEET TITLE

BLDG 1&2 - DEMO REFLECTED CEILING PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

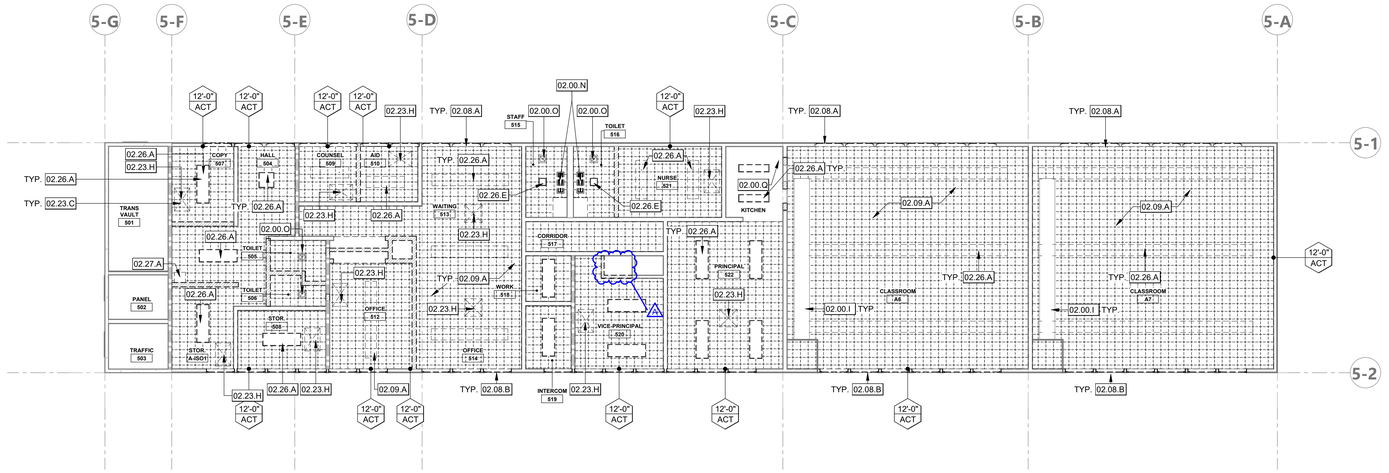
SHEET NO.

1A-023

DATE: APRIL 12, 2024

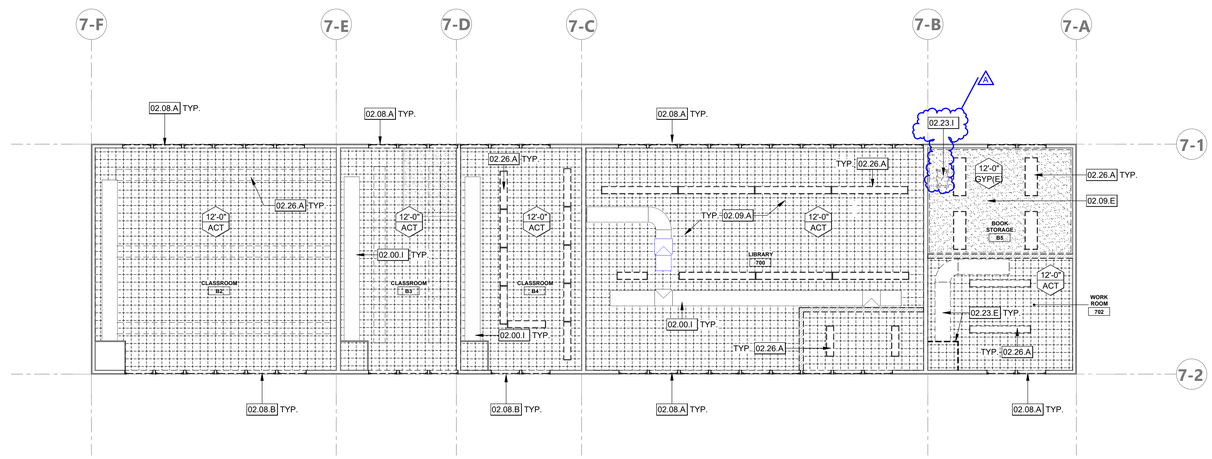
CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt
DATE PLOTTED: 4/16/2024 3:58:32 PM



PROJECT NORTH

BLDG. 5 DEMOLITION RCP | 1/8" = 1'-0" | **1**



PROJECT NORTH

BLDG. 7 DEMOLITION RCP | 1/8" = 1'-0" | **2**

KEYNOTES

02.00.I	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. PREPARE SURFACE FOR PAINTING
02.00.N	(E) ROOF OPENING TO REMAIN. PREPARE SURFACE FOR NEW CEILING
02.00.O	(E) MECHANICAL RETURN REGISTERS TO REMAIN. PROTECT AND COVER FROM CONSTRUCTION DUST. S.M.D.
02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.09.A	(E) GLUE-UP CEILING TILES TO BE DEMOLISHED, PROTECT (E) 2x3 FURRING STRIPS. PREPARE FOR FUTURE CEILING TILES
02.09.E	(E) GYPSUM BOARD CEILING TO BE DEMOLISHED.
02.23.C	(E) AC SPLIT UNIT TO BE DEMOLISHED. S.MP.D.
02.23.E	(E) DUCTWORK AND FURNACE TO BE DEMOLISHED. S.MP.D.
02.23.H	(E) HVAC SYSTEM TO BE DEMOLISHED S.MP.D
02.23.I	(E) ROOF HOOD TO BE DEMOLISHED S.MP.D
02.26.A	(E) LIGHT FIXTURES TO BE DEMOLISHED. PREPARE FOR (N) LIGHT FIXTURES
02.26.E	(E) SURFACE MOUNTED LIGHTING FIXTURE TO BE PROTECTED IN PLACE AND UPDATED TO LED
02.27.A	(E) COMMUNICATIONS RACK TO BE REMOVED AND RELOCATED. S.TI.D.

DEMO CEILING GENERAL NOTES

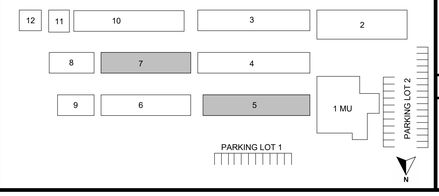
1. COORDINATE WITH ELECTRICAL, MECHANICAL, PLUMING DRAWINGS FOR DEMOLITION WORK
2. (E) FINISHES, EQUIPMENT, CONDUITS, ETC. INDICATED TO REMAIN, SHALL BE PROTECTED DURING CONSTRUCTION.
3. AT CEILINGS TO BE REMOVED, REMOVE ALL CEILINGS, SOFFITS, RELATED SUPPORT SYSTEMS AND ACCESSORIES, AND CEILING MOUNTED 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) FRAMING AND BLOCKING TO BE PROTECTED
- (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) HVAC SYSTEM 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# 01-121440

196
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PROFESSIONAL STAMP

LICENSED ARCHITECT MARINKA ALVAREZ PAGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
	04-01-2024	BID SET
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PROJECT OWNER & TITLE

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

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 5&7 - DEMO REFLECTED CEILING PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

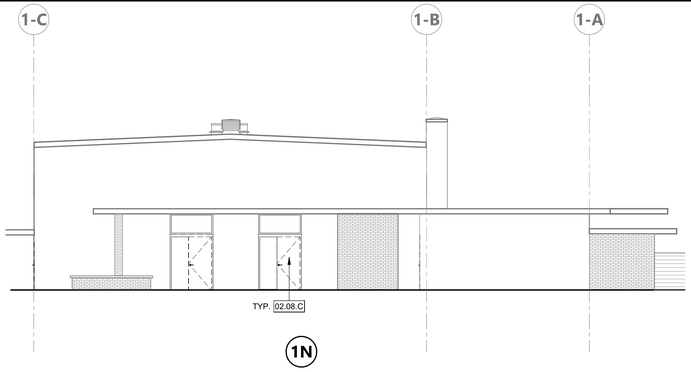
SHEET NO.

1A-024

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 3:58:35 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



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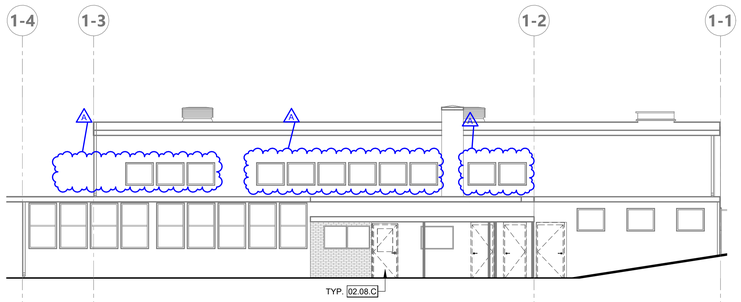

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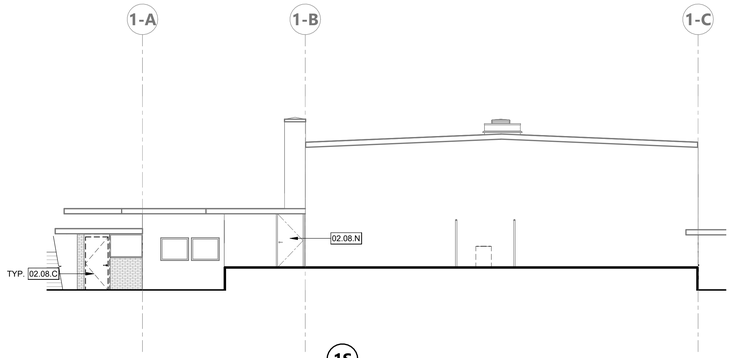

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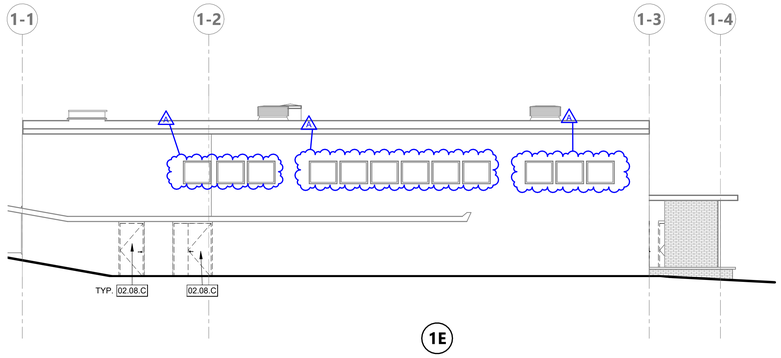

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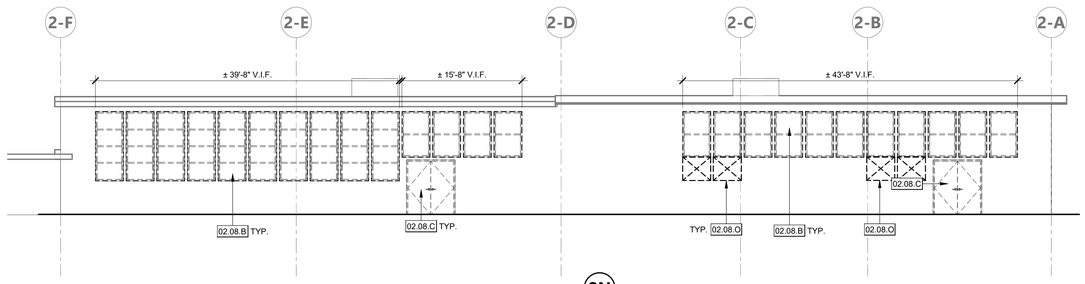
BLDG. 1 (MPR) EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1



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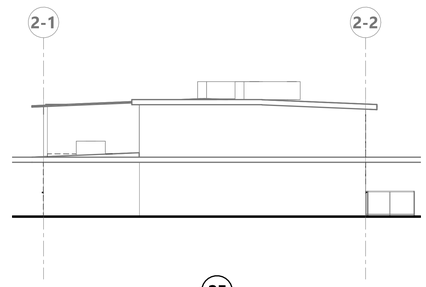

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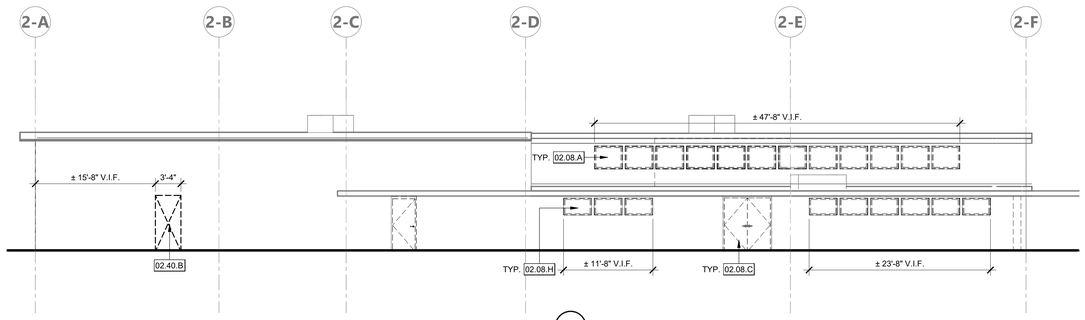

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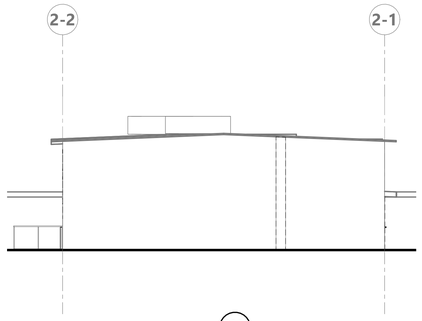

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BLDG. 2 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2

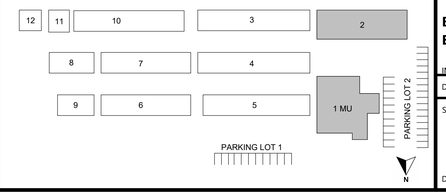
KEYNOTES

02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.08.C	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.08.H	(E) WINDOW AND FRAME TO BE DEMOLISHED. PROTECT OPENING
02.08.N	(E) FRP DOOR TO REMAIN; REPLACE EXTERIOR SURFACE TO MATCH NEW FRP DOORS
02.08.O	(E) WALL TO BE DEMOLISHED; PREPARE OPENING FOR NEW STOREFRONT ALUMINUM WINDOWS. PROTECT STRUCTURAL STUDS.
02.40.B	(E) EXTERIOR WALL TO BE DEMOLISHED FOR (N) 7' HIGH FRP DOOR

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

KEY PLAN



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SHEET TITLE

BLDG 1&2 - DEMO EXTERIOR ELEVATIONS

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

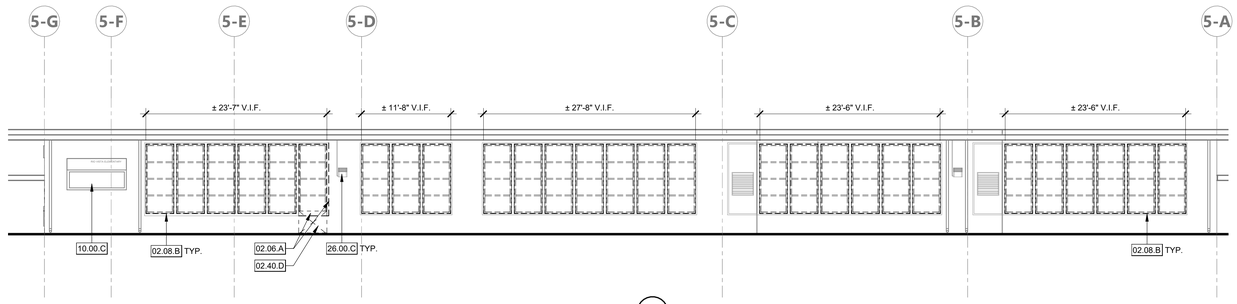
SHEET NO.

1A-031

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 3:58:41 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



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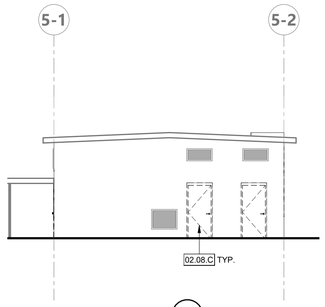

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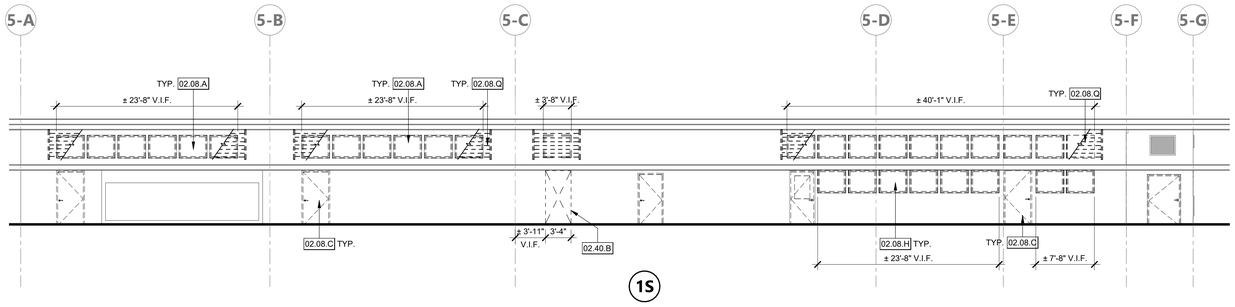

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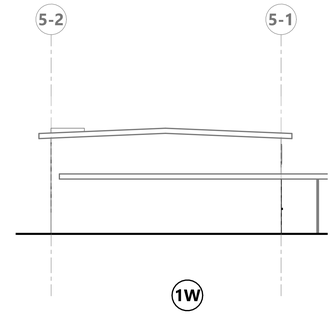

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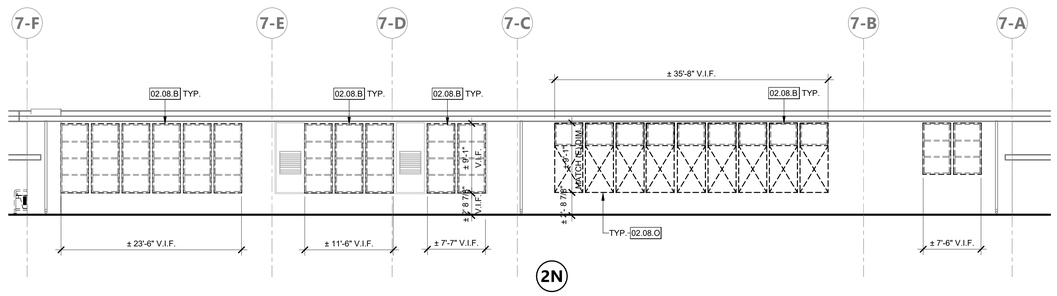
BLDG. 5 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1



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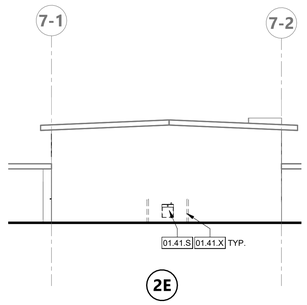

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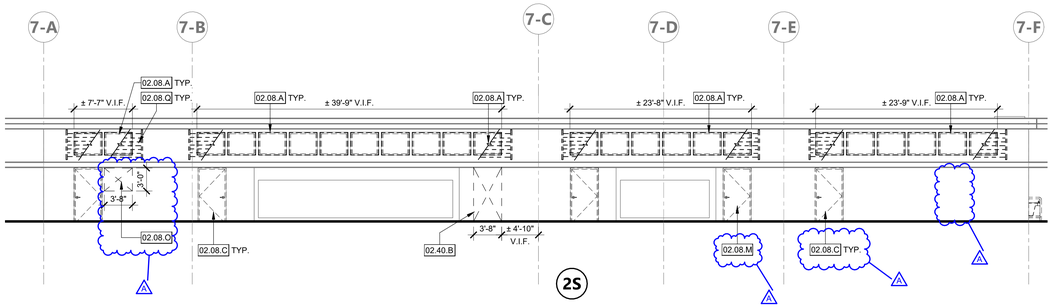

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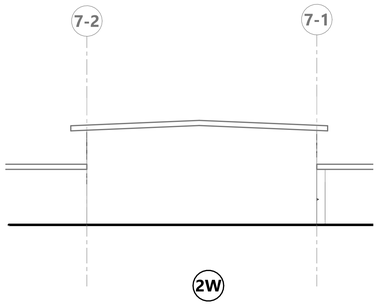

2W

BLDG. 7 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2

KEYNOTES

01.41.S	REPLACE (E) DF WITH (N) HI-LOW ACCESSIBLE DRINKING FOUNTAIN.
01.41.X	(E) DRINKING FOUNTAIN GRAB BAR RAIL TO BE DEMOLISHED
02.06.A	(E) WOOD TRIM TO BE DEMOLISHED
02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
02.08.C	(E) DOOR AND ASSOCIATED HARDWARE TO BE DEMOLISHED, WOOD FRAME TO REMAIN. PREPARE FOR NEW FRP DOOR
02.08.H	(E) WINDOW AND FRAME TO BE DEMOLISHED. PROTECT OPENING
02.08.M	(E) DOOR AND FRAME TO BE DEMOLISHED FOR WALL INFILL.
02.08.O	(E) WALL TO BE DEMOLISHED; PREPARE OPENING FOR NEW STOREFRONT ALUMINUM WINDOWS. PROTECT STRUCTURAL STUDS.
02.08.Q	(E) WINDOW LOUVERS TO BE DEMOLISHED
02.40.B	(E) EXTERIOR WALL TO BE DEMOLISHED FOR (N) 7' HIGH FRP DOOR
02.40.D	(E) BOTTOM PORTION OF EXTERIOR WALL TO BE DEMOLISHED FOR NEW FRP DOOR.
10.00.C	(E) DIGITAL BOARD SIGN TO BE PROTECTED IN PLACE.
26.00.C	(E) OUTDOOR LIGHTING FIXTURE TO BE PROTECTED IN PLACE.

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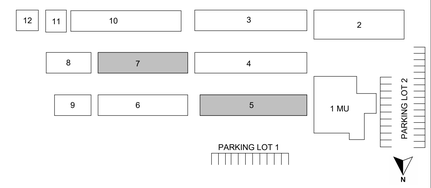

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PROFESSIONAL STAMP

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C-36107
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SHEET TITLE

BLDG 5&7 - DEMO EXTERIOR ELEVATIONS

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

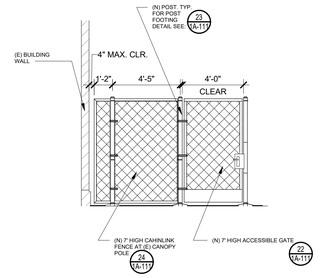
SHEET NO.

1A-032

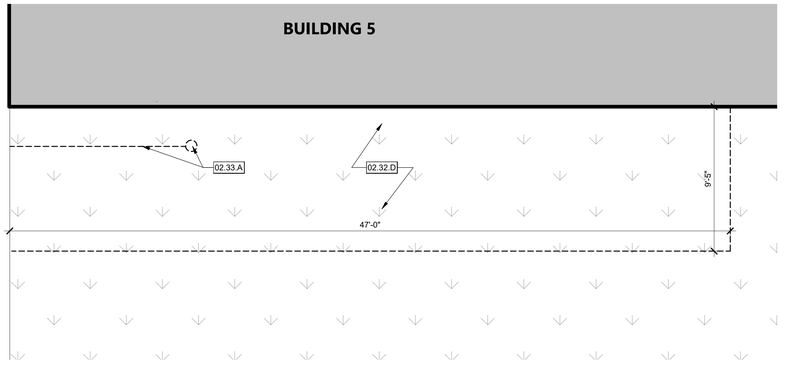
DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

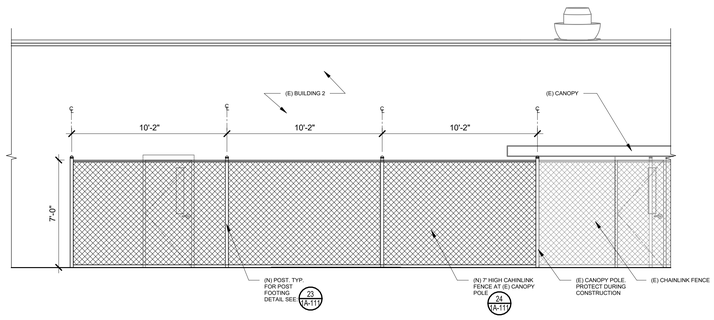
DATE PLOTTED: 4/16/2024 3:58:47 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



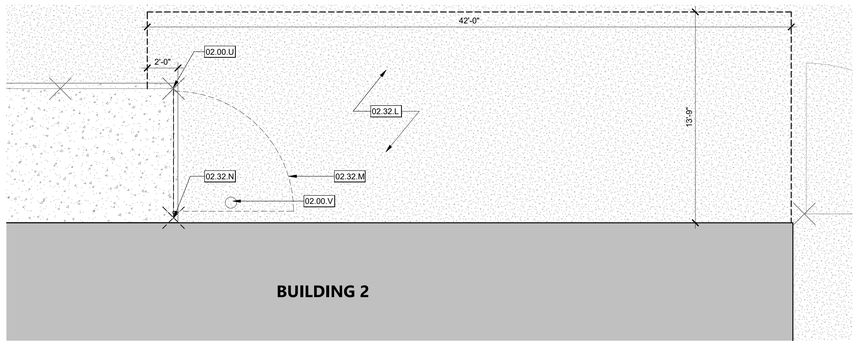
BLDG 2 - WEST FENCE ELEVATION | 1/4" = 1'-0" | 5



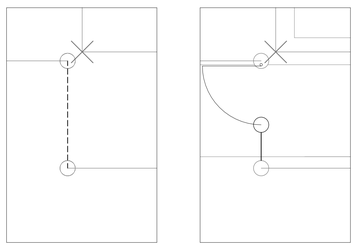
BLDG. 5 EXISTING WALKWAY - ENLARGED DEMO & GRADING PLAN | 1/4" = 1'-0" | 1



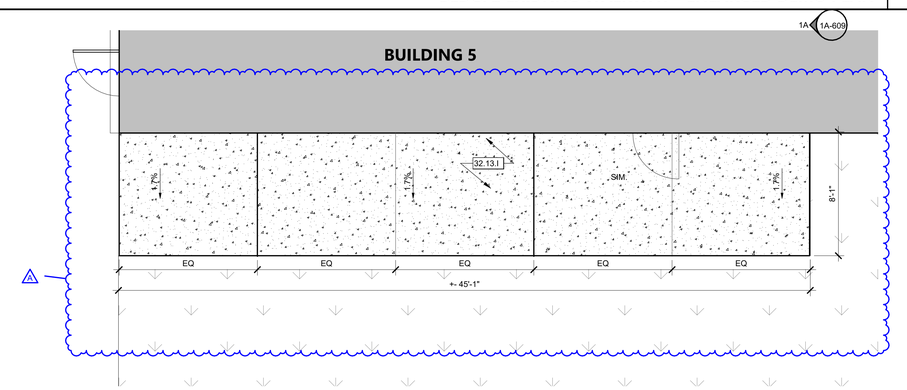
BLDG 2 - SOUTH FENCE ELEVATION | 1/4" = 1'-0" | 6



BLDG. 2 EXISTING WALKWAY - ENLARGED DEMO PLAN | 1/4" = 1'-0" | 2

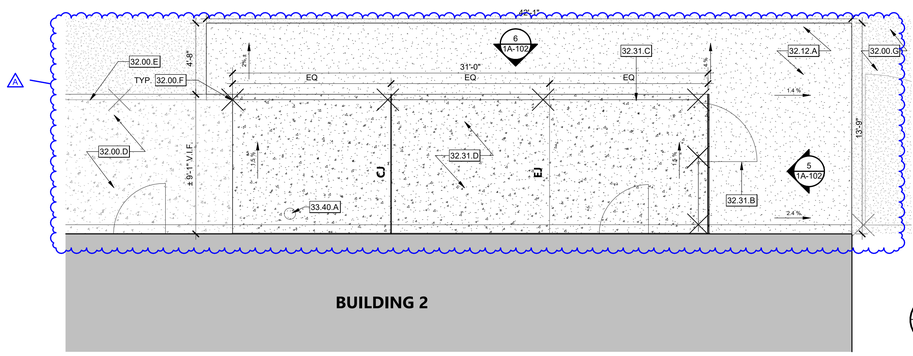


NEW GATE AT P.O.T. Copy 1 | 1/4" = 1'-0" | 8



BLDG. 5 NEW WALKWAY - ENLARGED SITE PLAN | 1/4" = 1'-0" | 3

NEW GATE AT P.O.T. | 1/4" = 1'-0" | 7



BLDG. 2 NEW WALKAWAY - ENLARGED PLAN | 1/4" = 1'-0" | 4

KEYNOTES

01.32.G	(E) GATE W/ 20'-0" CLEAR OPENING - WITH (E) KNOX BOX
02.00.U	(E) CANOPY POLE TO BE PROTECT DURING CONSTRUCTION
02.00.V	(E) SANITARY SEWER CLEAN OUT TO BE PROTECT DURING CONSTRUCTION
02.32.D	(E) LANDSCAPE TO BE DEMOLISHED AS NEEDED FOR NEW CONCRETE WALKWAY
02.32.L	SAWCUT & DEMOLISH ASPHALT
02.32.M	(E) GATE TO BE DEMOLISHED
02.32.N	(E) FENCE POST TO BE DEMOLISHED
02.33.A	(E) WATER VALVE AND IRRIGATION LINE TO BE DISCONECTED AND REMOVED. CAP UNDERGROUND UTILITIES AS NEEDED.
32.00.D	(E) CONCRETE WALKWAY
32.00.E	(E) CHAINLINK FABRIC
32.00.F	(E) COVERED WALKWAY POLE
32.00.G	(E) ASPHALT PLAYGROUND
32.12.A	(N) ASPHALT CONCRETE PAVING. SEE CIVIL DRAWINGS.
32.13.I	(N) CONCRETE FLATWORK TO MATCH (E)
32.31.B	(N) 4' WIDE CHAINLINK GATE
32.31.C	(N) 7' HIGH CHAINLINK FENCE
32.31.D	(N) CONCRETE PAVING. SEE CIVIL DRAWINGS.
33.40.A	(N) VALVE BOX AT (E) CLEANOUT

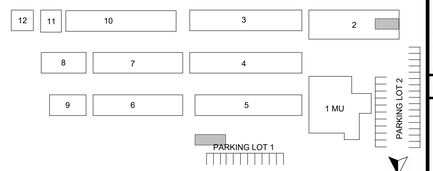
SITE PLAN GENERAL NOTES

1. ALL NEW CONCRETE AND AC PAVING IN P.O.T. SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS U.N.O. AND SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT NEW AND EXISTING WALK SURFACES IN P.O.T .
2. 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.
3. VERIFY FENCE DIMENSIONS IN FIELD.

LEGEND - ENLARGED SITE PLAN

- PROJECT BUILDING MODERNIZATION INC. 1
- (N) CONCRETE PAVING EXPANSION JOINT PER CONTROL JOINT PER
- (N) ASPHALT CONCRETE PAVING
- (E) CONCRETE PAVING
- (E) ASPHALT CONCRETE PAVING
- (E) LANDSCAPING
- (N) CHAINLINK FENCE
- (E) CHAINLINK FENCE

KEY PLAN



AGENCY APPROVAL DSA# 01-121440

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

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE

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

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

ENLARGED SITE PLAN, DEMOLITION & FENCING ELEVATIONS

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

1A-102

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt
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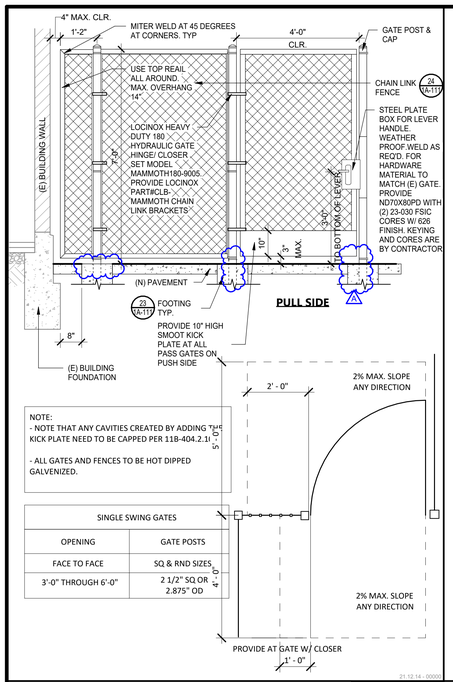


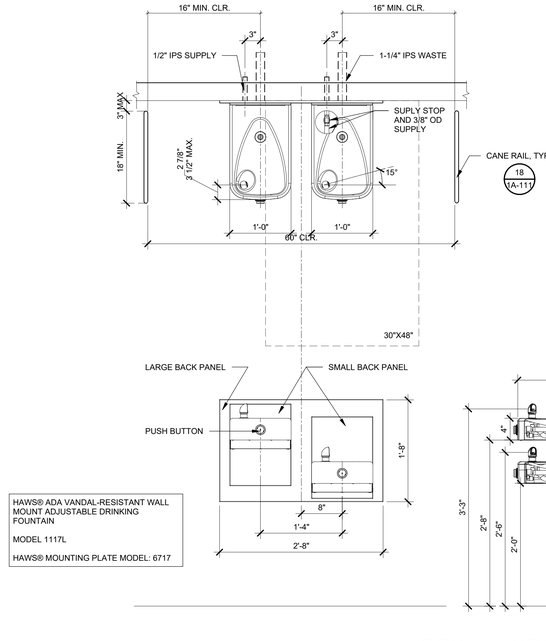
NOTE:
- NOTE THAT ANY CAVITIES CREATED BY ADDING THE KICK PLATE NEED TO BE CAPPED PER 11B-404.2.10.

- ALL GATES AND FENCES TO BE HOT DIPPED GALVENIZED.

SINGLE SWING GATES	
OPENING	GATE POSTS
FACE TO FACE	SQ & RND SIZES
3'-0" THROUGH 6'-0"	2 1/2" SQ OR 2.875" OD

21-12-14 - 00000

ACCESSIBLE GATE | 1/2" = 1'-0" | 22

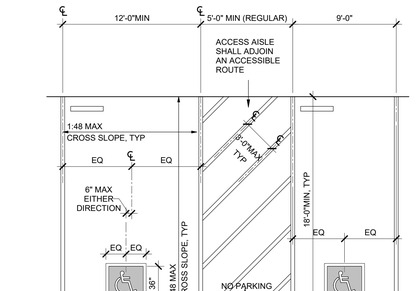


HAWS® ADA VANDAL-RESISTANT WALL MOUNT ADJUSTABLE DRINKING FOUNTAIN

MODEL 1117L

HAWS® MOUNTING PLATE MODEL: 6717

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



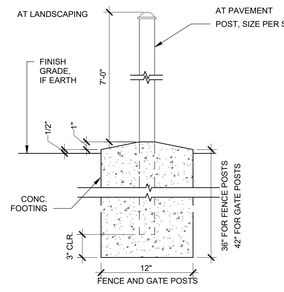
BORDERLINE TO BE PAINTED BLUE, TYP

12" MIN HIGH LETTERING, PAINTED WHITE

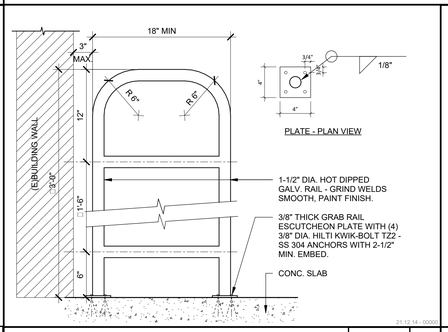
HATCHED LINES TO BE PAINTED IN A CONTRASTING COLOR TO THE AISLE SURFACE, PREFERABLY WHITE ON ASPHALT OR BLUE ON CONCRETE.

ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT OVERLAP MIN. REQUIRED CLEAR WIDTH OF VEHICULAR WAYS OR FIRE LANES

ADA PARKING LOT STRIPING | 3/16" = 1'-0" | 7

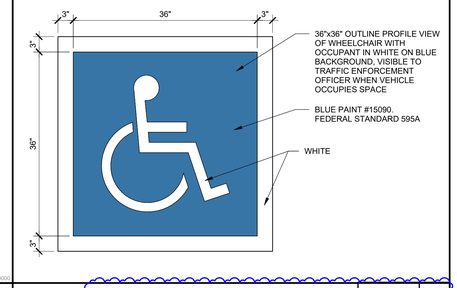


FENCE POST FOOTING | 1 N.T.S. | 23

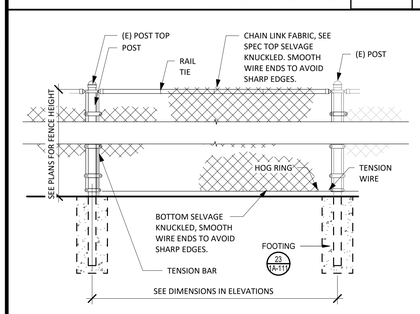


21-12-14 - 00000

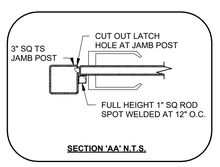
(N) DRINKING FOUNTAIN CANE RAIL | 1 1/2" = 1'-0" | 18



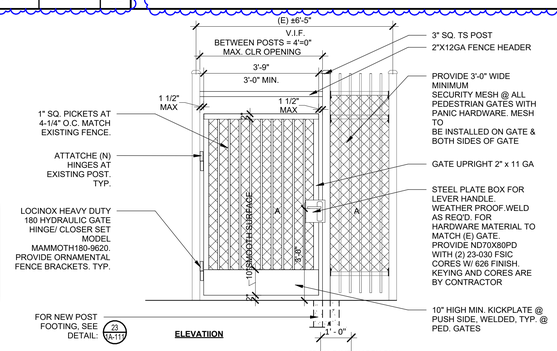
ACCESSIBLE PARKING SYMBOL | 1" = 1'-0" | 13



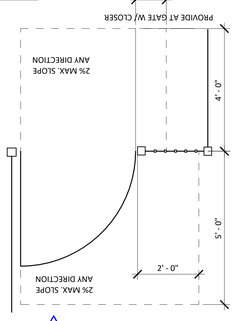
TYP. CHAINLINK FENCE ELEVATION | 1/2" = 1'-0" | 24



SECTION 'AA' N.T.S.



ELEVATION



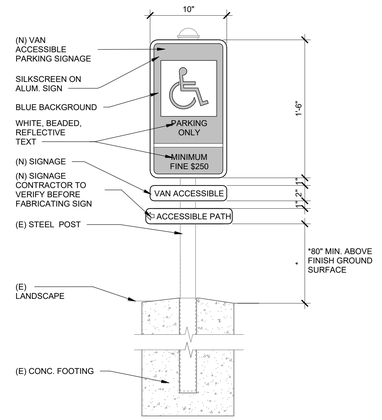
PLAN VIEW

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

- ALL GATES AND FENCES TO BE HOT DIPPED GALVENIZED AND PAINTED BLACK TO MATCH EXISTING FENCE AND GATES.

SINGLE SWING GATES	
OPENING	GATE POSTS
FACE TO FACE	SQ & RND SIZES
3'-0" THROUGH 6'-0"	2 1/2" SQ OR 2.875" OD

NEW GATE AT P.O.T. | 1/2" = 1'-0" | 10



ACC. PARKING STALL SIGN @ (E) POST | 1 1/2" = 1'-0" | 5

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SHEET TITLE

SITE DETAILS

INC.1

DRAWN BY: MEP JOB NUMBER: 23118.01

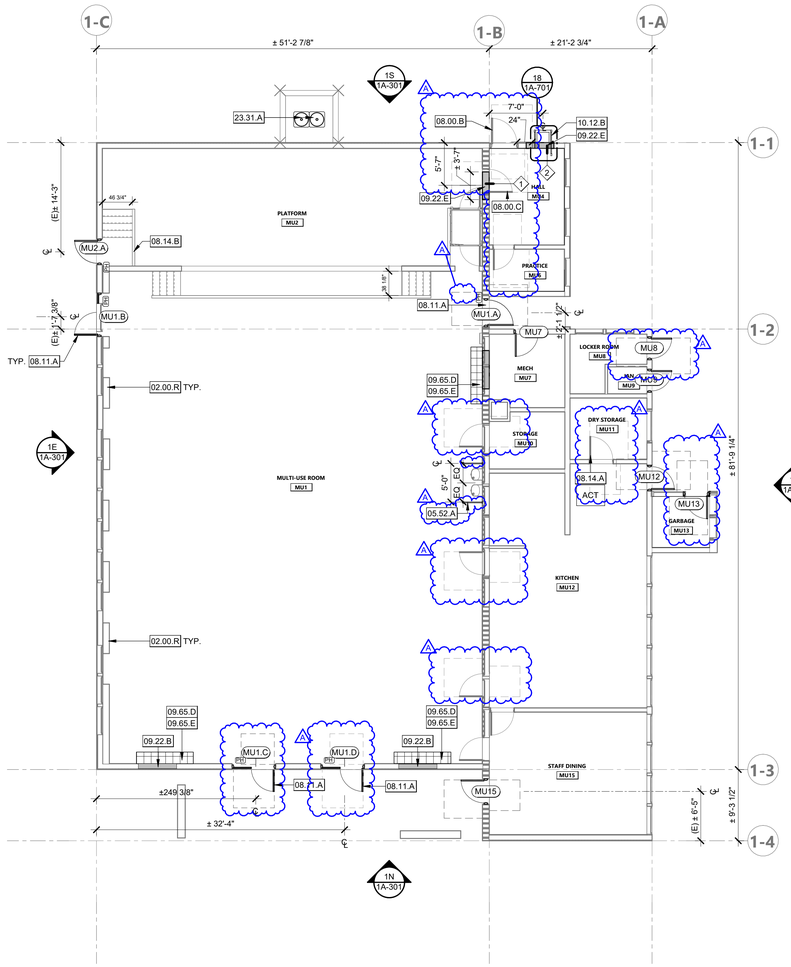
SHEET NO.

1A-111

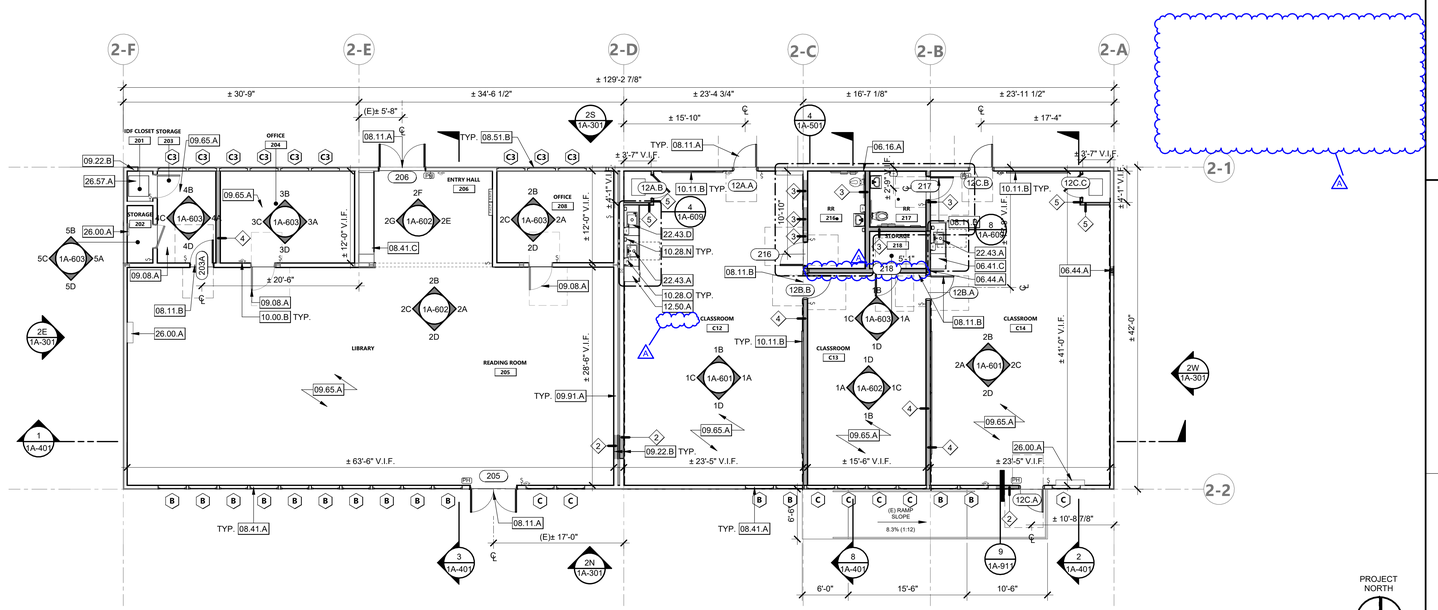
DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 3:59:11 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



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



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

KEYNOTES

02.00.R	(E) FURNITURE TO REMAIN. PROTECT DURING CONSTRUCTION
05.52.A	(N) DRINKING FOUNTAIN GRAB RAIL
06.16.A	(N) PLYWOOD SHEATHING PER STRUCTURAL DRAWINGS
06.41.C	PLASTIC LAMINATED COUNTERTOP 6" BACKSPLASH, TYP.
06.44.A	(N) STRUCTURAL POST. S.S.D.
08.00.B	(E) FRP DOOR TO REMAIN. REPLACE EXTERIOR SURFACE TO MATCH NEW EXTERIOR FRP DOORS
08.00.C	(E) DOOR AND FRAME TO REMAIN
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.11.B	(N) WOOD DOOR AND FRAME, PAINTED
08.14.A	(N) HARDWARE AT (E) DOOR
08.14.B	(N) DOOR ACTUATOR, SEE 1A-801
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.41.C	(N) ALUMINUM FRAME WITH SLIDING SINGLE WINDOW GLAZING AT EXISTING TROPHY CASE
08.51.B	(N) FIXED HOLLOW METAL WINDOW
09.08.A	(N) PAINTING AT EXISTING WOOD DOOR AND FRAME
09.22.B	(N) INFILL WALL. PATCH AND PAINT. MATCH EXISTING PAINT WHEN SURFACE IS NOT PART OF INTERIOR PAINTING SCOPE.
09.22.E	(N) WOOD BLOCKING ABOVE INTERIOR DOOR FOR ACCESS ROOF LADDER. PATCH AND PAINT TO MATCH EXISTING WALL
09.65.A	(N) FLOORING AND WALL BASE THROUGHOUT, SEE FINISH SCHEDULE FOR FLOORING INFORMATION
09.65.D	(N) RUBBER WALL BASE. MATCH EXISTING HEIGHT AND COLOR.
09.65.E	(N) VCT FLOORING PATCH TO MATCH EXISTING
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
10.00.B	(E) FIRE EXTINGUISHER TO BE REMOVED/PROTECTED AND REINSTALLED. SEE INTERIOR ELEVATIONS FOR LOCATION.
10.11.B	(N) WALL MOUNTED WHITEBOARD
10.12.B	TUBULAR RAIL LOW PARAPET ACCESS ALUMINUM LADDER WITH PLATAFORM. MODEL 503A
10.28.N	(N) SURFACE MOUNT SOAP DISPENSER, PER MOUNTING DETAILS
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER. PER MOUNTING DETAILS
12.50.A	(N) PLASTIC LAMINATED FACED ARCHITECTURAL CABINETS
22.43.A	(N) ACCESSIBLE SINK WITH CONCEALMENT PANEL. FOR AR-U.1 & AGES 9-12, SEE 25A-92
22.43.D	(N) ACCESSIBLE SINK WITH BUBBLER AT THE COUNTERTOP AND CONCEALMENT PANEL. FOR AGES 6-8, SEE 25A-92
23.31.A	(N) MECHANICAL UNIT PER MECHANICAL DRAWINGS
26.00.A	(E) ELECTRICAL PANEL TO REMAIN PROTECT DURING CONSTRUCTION. S.E.D.
26.57.A	ELECTRICAL CONDUITS. REFER TO ELECTRICAL.

FLOOR PLAN GENERAL NOTES

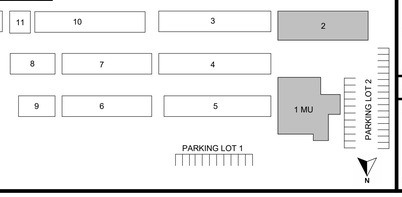
1. ALL INTERIOR CONSTRUCTION ON THIS PROJECT IS DESIGNATED "AIRTIGHT" FOR THE PURPOSES OF SOUND ISOLATION AND NOISE CONTROL. THE REQUIREMENTS FOR AIRTIGHT CONSTRUCTION INCLUDE, BUT ARE NOT LIMITED TO, THE REQUIREMENTS DESCRIBED IN THE SPECIFICATIONS AND THE DETAILS SHOWN ON DRAWING SHEET A-901. ALL NECESSARY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

FLOOR PLAN LEGEND

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
(N) LIGHT SWITCH. S.E.D.

KEY PLAN



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SHEET TITLE

BLDG 1&2 - FLOOR PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

1A-201

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

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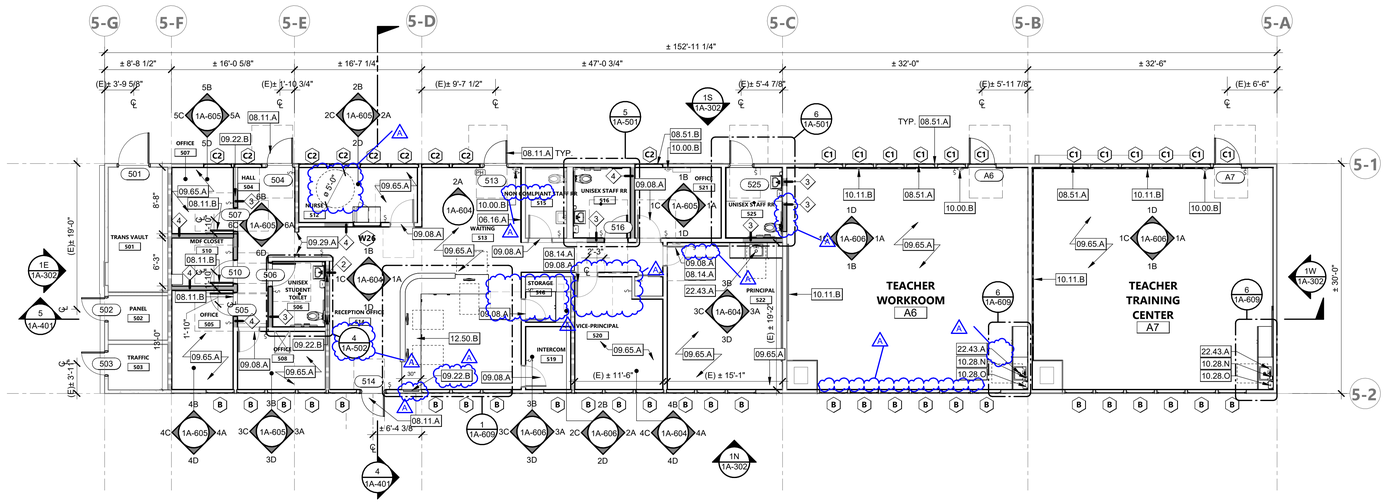
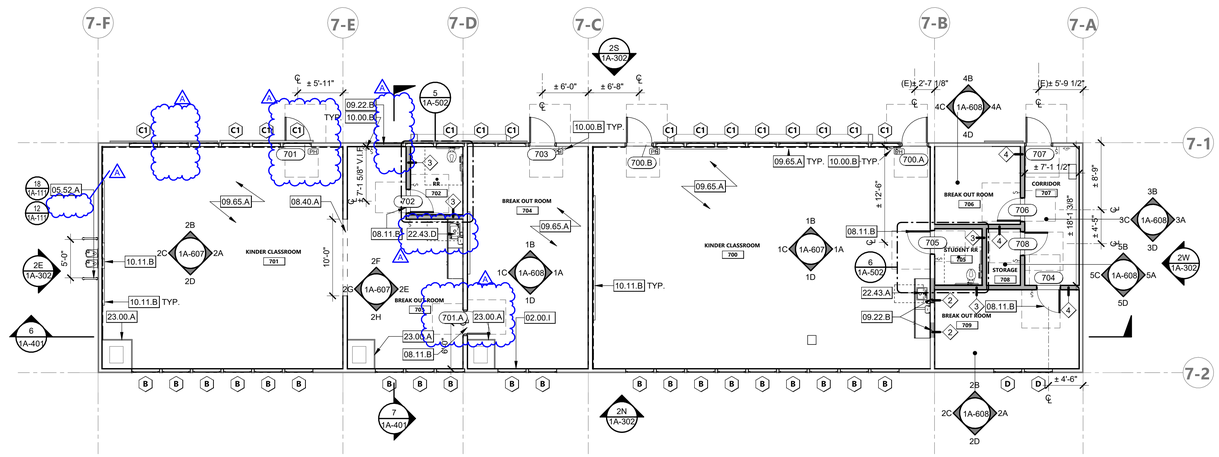


BLDG. 5 FLOOR PLAN | 1/8" = 1'-0" | 1



BLDG. 7 FLOOR PLAN | 1/8" = 1'-0" | 2

KEYNOTES

02.00.I	(E) HVAC HOUSING AND DUCTWORK TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. PREPARE SURFACE FOR PAINTING
05.52.A	(N) DRINKING FOUNTAIN GRAB RAIL
06.16.A	(N) PLYWOOD SHEATHING PER STRUCTURAL DRAWINGS
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.11.B	(N) WOOD DOOR AND FRAME, PAINTED
08.14.A	(N) HARDWARE AT (E) DOOR
08.40.A	(N) WALL OPENING.
08.51.A	(N) CLERESTORY WINDOWS
08.51.B	(N) FIXED HOLLOW METAL WINDOW
09.08.A	(N) PAINTING AT EXISTING WOOD DOOR AND FRAME
09.22.B	(N) INFILL WALL, PATCH AND PAINT. MATCH EXISTING PAINT WHEN SURFACE IS NOT PART OF INTERIOR PAINTING SCOPE.
09.29.A	(N) GYPSUM BOARD PATCH, SMOTTH, AND PAINT SURFACE.
09.65.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.
10.11.B	(N) WALL MOUNTED WHITEBOARD
10.28.N	(N) SURFACE MOUNT SOAP DISPENSER, PER MOUNTING DETAILS
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER. PER MOUNTING DETAILS
12.50.B	(N) SOLID SURFACE BUILT-IN FRONT DESK. SEE 1A-931
22.43.A	(N) ACCESSIBLE SINK WITH CONCEALMENT PANEL, FOR ADULT & AGES 9-12. SEE 25/A-921.
22.43.D	(N) ACCESSIBLE SINK WITH BUBBLER AT THE COUNTER AND CONCEALMENT PANEL, FOR AGES PK-SEE 25/A-921
23.00.A	(E) HVAC HOUSING AND DUCTWORK TO BE PAINTED

FLOOR PLAN GENERAL NOTES

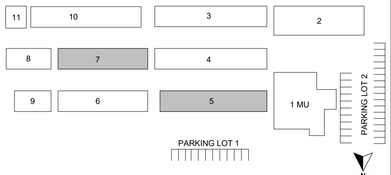
1. ALL INTERIOR CONSTRUCTION ON THIS PROJECT IS DESIGNATED "AIRTIGHT" FOR THE PURPOSES OF SOUND ISOLATION AND NOISE CONTROL. THE REQUIREMENTS FOR AIRTIGHT CONSTRUCTION INCLUDE, BUT ARE NOT LIMITED TO, THE REQUIREMENTS DESCRIBED IN THE SPECIFICATIONS AND THE DETAILS SHOWN ON DRAWING SHEET A-901. ALL NECESSARY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

FLOOR PLAN LEGEND

ROOM NAME — ROOM NAME
101 — ROOM NUMBER
A1 — 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
(N) LIGHT SWITCH. S.E.D.

KEY PLAN



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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION
	04-01-2024	BID SET
A	04-15-2024	ADDENDUM

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

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

SHEET TITLE
BLDG 5&7 - FLOOR PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.
1A-202

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

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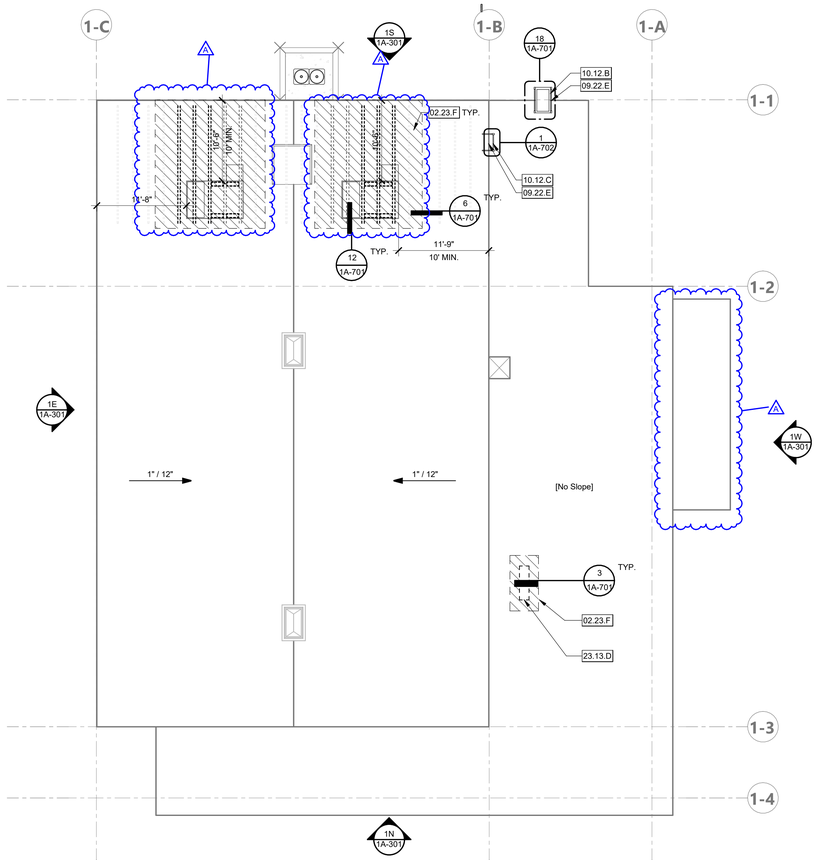
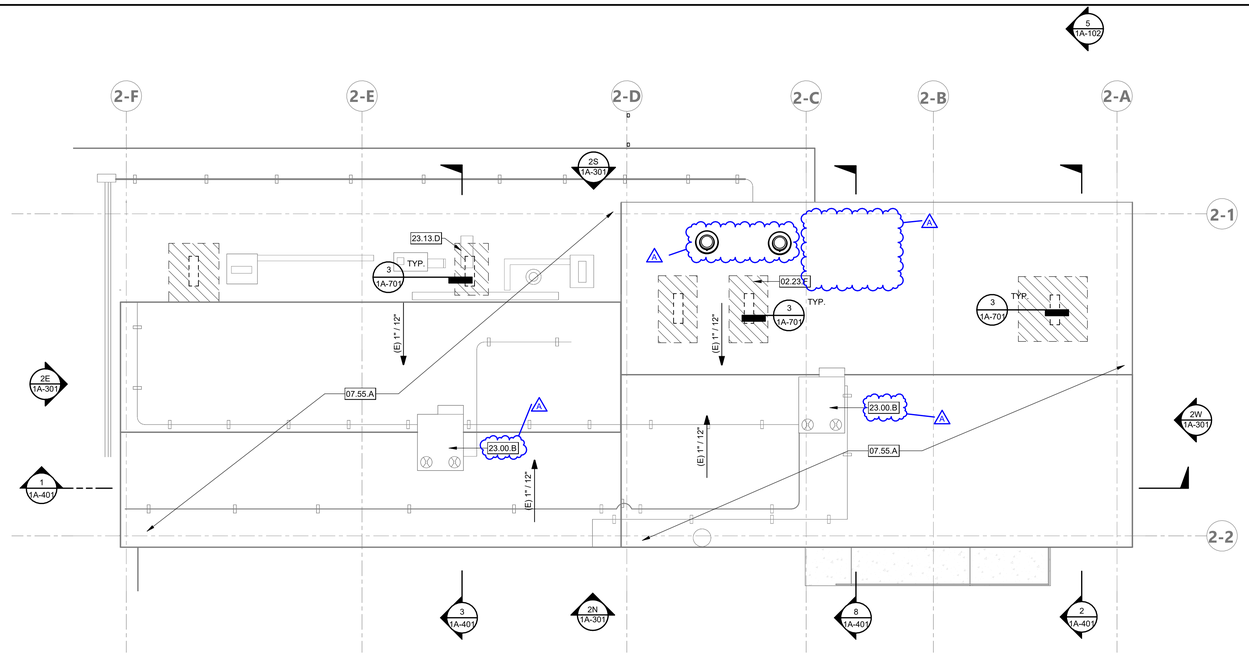


PROJECT NORTH

BLDG. 1 ROOF PLAN 1/8" = 1'-0" **1**



PROJECT NORTH

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

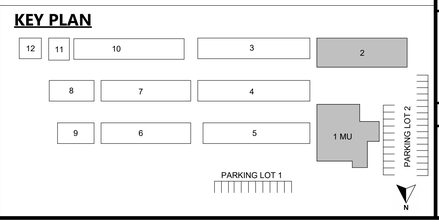
KEYNOTES

02.23.F	CUT PORTION OF (E) ROOFING AND SHEATHING TO RECEIVE (N) BLOCKING FOR (N) HVAC. REPLACE R-30 BATT INSULATION AS NEEDED. S.S.D. & S.M.D.
07.55.A	(E) BUR ROOFING TO REMAIN
09.22.E	(N) WOOD BLOCKING ABOVE INTERIOR DOOR FOR ACCESS ROOF LADDER. PATCH AND PAINT TO MATCH EXISTING WALL
10.12.B	TUBULAR RAIL LOW PARAPET ACCESS ALUMINUM LADDER WITH PLATAFORM. MODEL 503A
10.12.C	ALUMINUM LADDER, HEAVY DUTY TUBULAR RAIL, LOW PARAPET ACCESS W/ROOF OVER RAIL EXTENSIONS. MODEL 507
23.00.B	(E) MECHANICAL UNIT, NO NEW WORK
23.13.D	(N) SPLIT HEAT PUMP SYSTEM ON ROOF

ROOF GENERAL NOTES

1. REFER TO MECHANICAL SHEETS FOR MECHANICAL EQUIPMENT INFORMATION

KEY PLAN



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SHEET TITLE

BLDG 1&2 - ROOF PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

1A-205

DATE: APRIL 12, 2024

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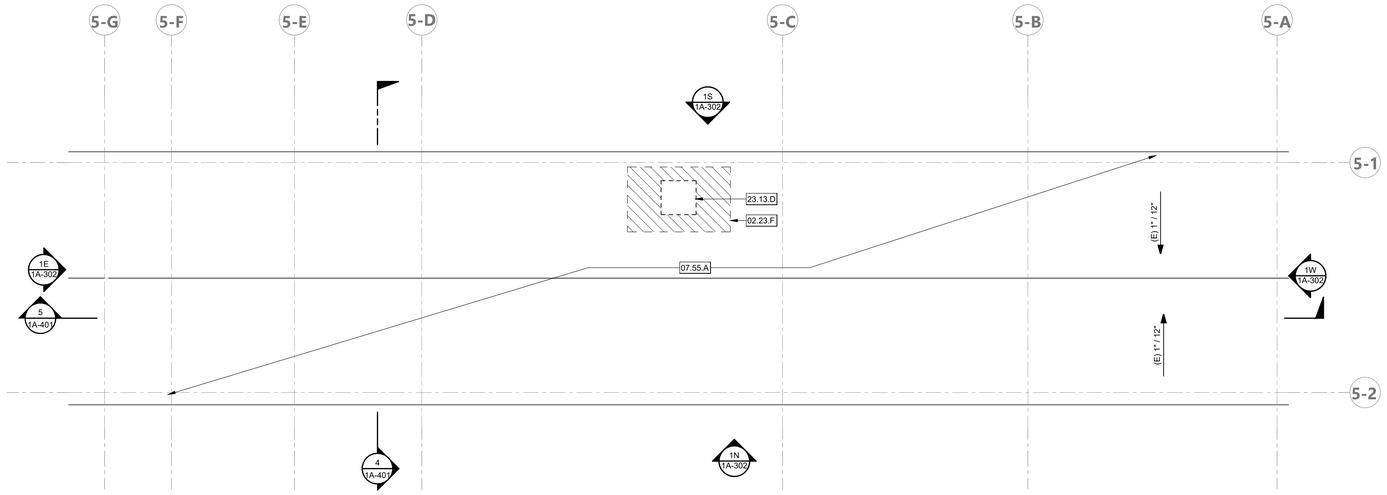
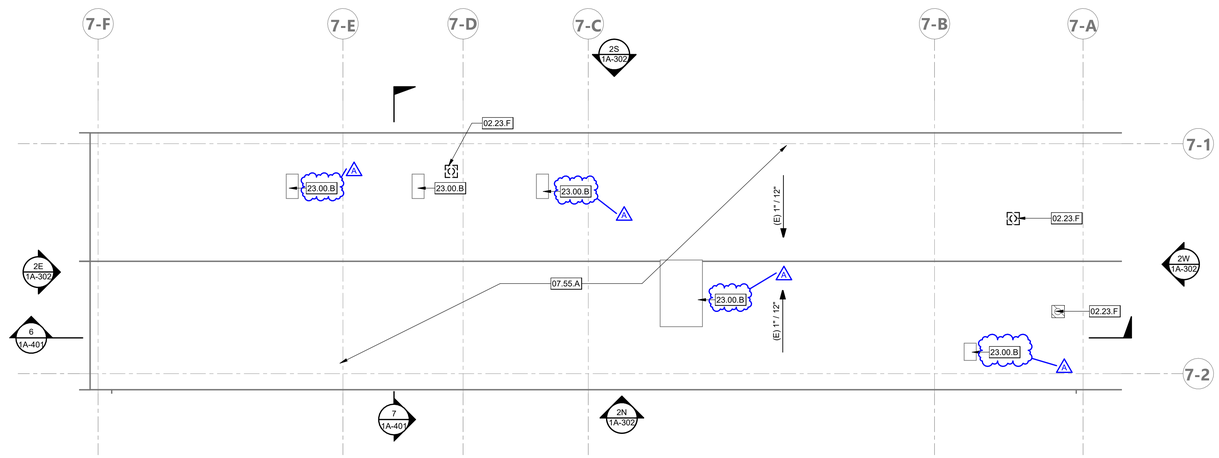


PROJECT NORTH

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



PROJECT NORTH

BLDG. 7 ROOF PLAN | 1/8" = 1'-0" | **2**

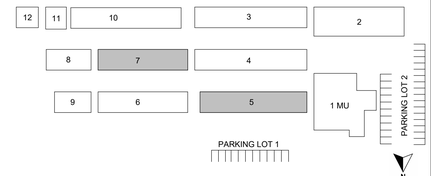
KEYNOTES

02.23.F	CUT PORTION OF (E) ROOFING AND SHEATHING TO RECEIVE (N) BLOCKING FOR (N) HVAC. REPLACE R-30 BATT INSULATION AS NEEDED. S.S.D. & S.M.D.
07.55.A	(E) BUR ROOFING TO REMAIN
23.00.B	(E) MECHANICAL UNIT. NO NEW WORK
23.13.D	(N) SPLIT HEAT PUMP SYSTEM ON ROOF

ROOF GENERAL NOTES

1. REFER TO MECHANICAL SHEETS FOR MECHANICAL EQUIPMENT INFORMATION

KEY PLAN



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SHEET TITLE

BLDG 5&7 - ROOF PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

1A-206

DATE: APRIL 12, 2024

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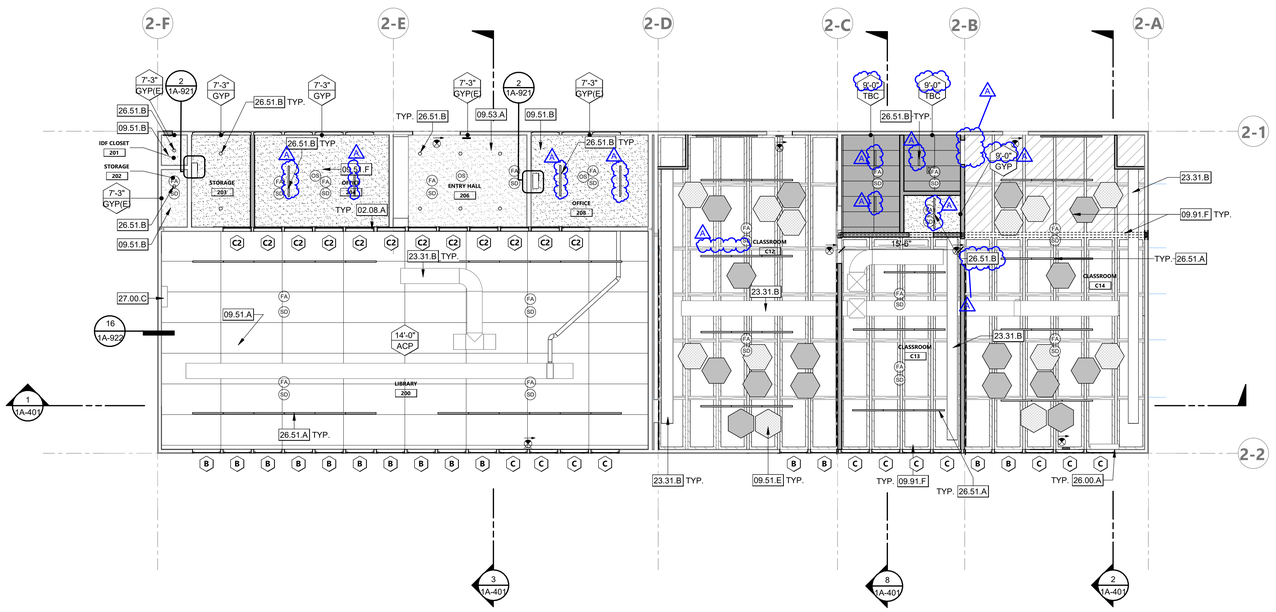
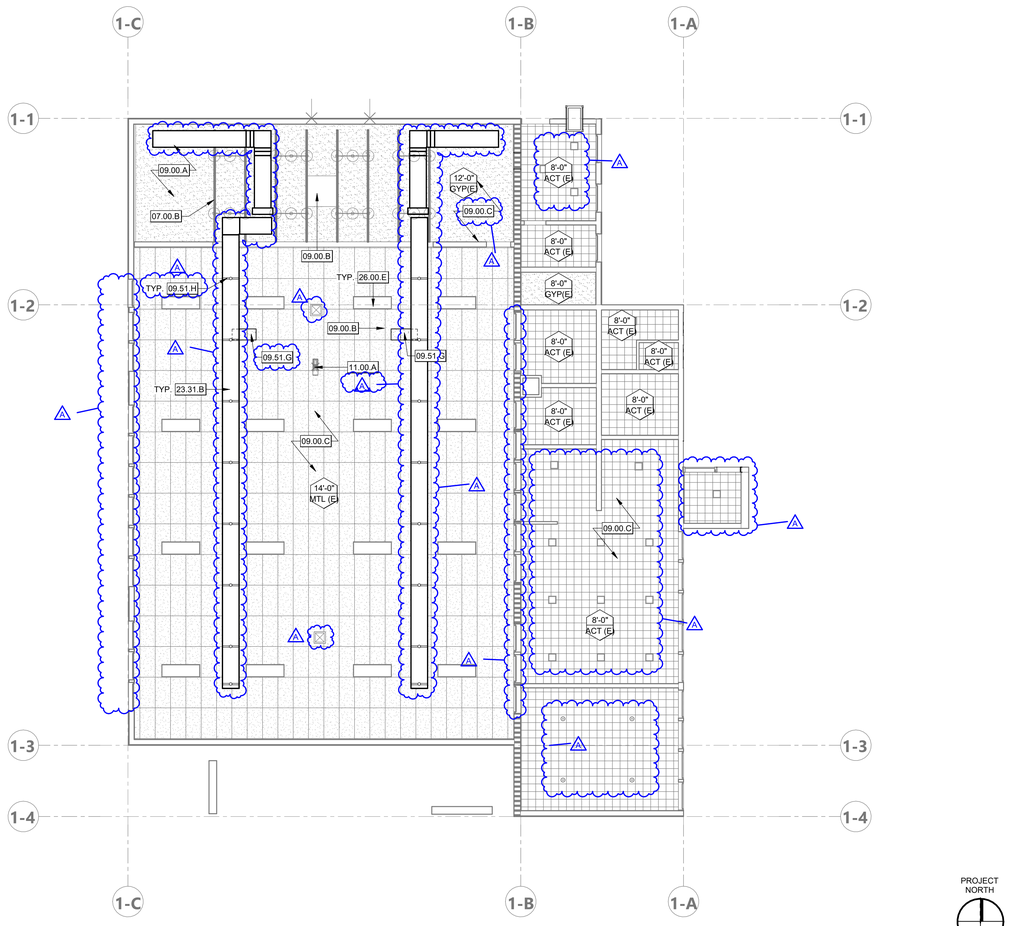


PROJECT NORTH

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



PROJECT NORTH

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

KEYNOTES

02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
07.00.B	(E) LIGHTING STAGE ROD TO REMAIN. PROTECT DURING CONSTRUCTION.
09.00.A	(E) GYPSUM BOARD TO REMAIN
09.00.B	(E) CEILING OPENING
09.00.C	(E) GLUE-UP ACOUSTICAL CEILING TILES. NO NEW WORK.
09.51.B	(E) GYPSUM BOARD CEILING TO BE PAINTED AND PATCHED
09.51.E	(N) PENDANT HEXAGON ACOUSTIC CEILING PANEL
09.51.F	(N) GYPSUM BOARD CEILING PATCH
09.51.G	(N) GLUE UP CEILING TILES PATCH. REUSE SALVAGED 2'X'6 CEILING TILES FROM BLDG 2.
09.51.H	REMOVE AND REINSTALL GLUE-UP CEILING TILES AS REQUIRED FOR DUCT HANGERS ATTACHED TO THE ROOF FRAMING. REUSE SALVAGED 2'X'6 CEILING TILES FROM BLDG 2 IF REPLACEMENT IS REQUIRED.
09.53.A	(E) EXPOSED GYP. CEILING TO BE PAINTED AND PATCHED. ACT TILES TO BE REMOVED
09.91.F	(N) PAINT EXISTING AND NEW STRUCTURAL ITEMS AND UNDERSIDE OF ROOF TO MATCH DUCTWORK. SEE FINISH SCHEDULE
11.00.A	(E) EQUIPMENT TO REMAIN
23.31.B	(N) EXPOSED MECHANICAL DUCT PER MECHANICAL DRAWINGS, PAINTED.
26.00.A	(E) ELECTRICAL PANEL TO REMAIN PROTECT DURING CONSTRUCTION. S.E.D.
26.00.E	(E) LIGHTING FIXTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
26.51.B	(N) RECESSED LIGHT FIXTURE, S.E.D.
27.00.C	(E) COMMUNICATIONS RACK TO BE PROTECTED IN PLACE. S.TI.D.

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 21 1A-922

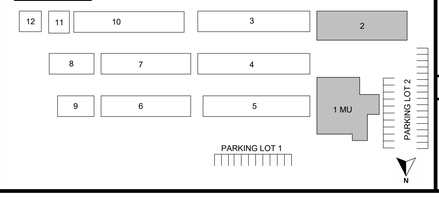
LEGEND - CEILING

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

- NEW 4x8 DIRECT ATTATCHED ACOUSTICAL PANEL CEILING (ACP) — 1A-924
- NEW 2x4 SUSPENDED ACOUSTICAL PANEL CEILING (ACT) — 1A-922
- NEW 2x4 DROPPED T-BAR. CLEAN ROOM (TBC) — 1A-922
- NEW PANELIZED SUSPENDED WOOD CEILING — 1A-923
- EXISTING GWB - FRAMED GYPSUM BOARD CEILING (GYP(E))
- NEW GWB - FRAMED GYPSUM BOARD CEILING (GYP) — 1A-925
- NEW SUSPENDED ACOUSTICAL PANEL (HEX) — 1A-924
- ROOF ACCESS HATCH
- CAN LIGHT FLUSH MOUNT FIXTURE
- (E) RECESSED RECTANGULAR LIGHT FIXTURE
- NEW LINEAR PENDANT LIGHT FIXTURE S.E.D.
- EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS
- SUPPLY REGISTER PER MECHANICAL DRAWINGS
- EXHAUST FAN OR GRILLE PER MECHANICAL DRAWINGS
- AC SPLIT UNIT
- AUDIO SPEAKER
- RETURN AIR GRILLE PER MECHANICAL DRAWINGS
- (SD) SMOKE DETECTOR PER FIRE ALARM DRAWINGS
- (FA) FIRE ALARM PER FIRE ALARM DRAWINGS
- (OS) OCCUPANCY SENSOR PER ELECTRICAL DRAWINGS

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

KEY PLAN



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BLDG 1&2 - REFLECTED CEILING PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

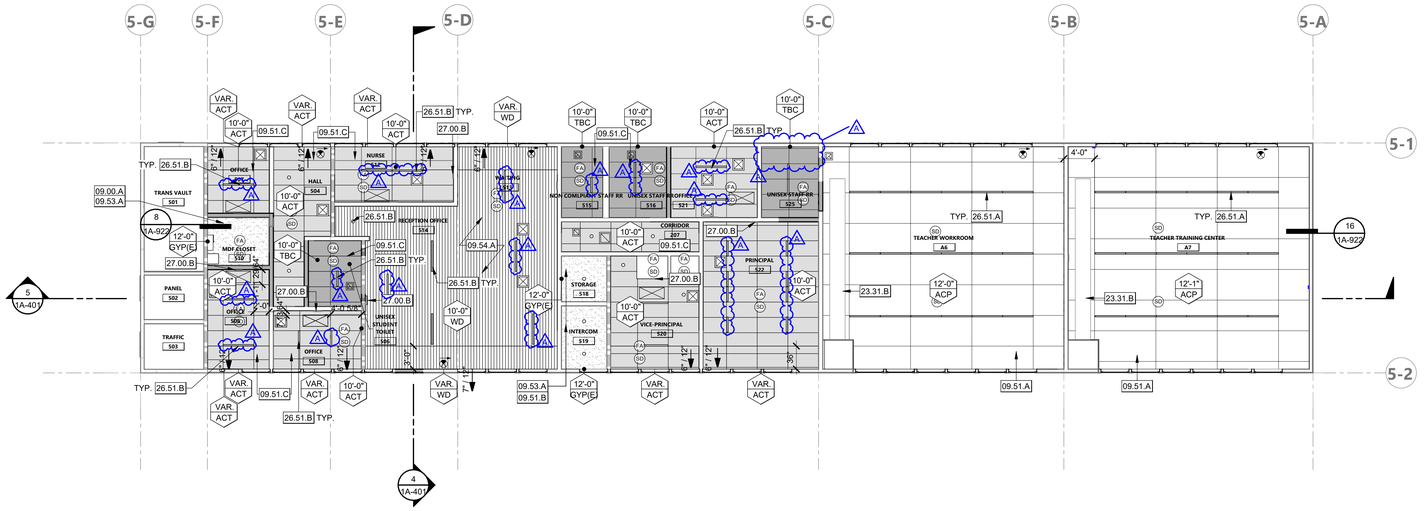
SHEET NO.

1A-211

DATE: APRIL 12, 2024

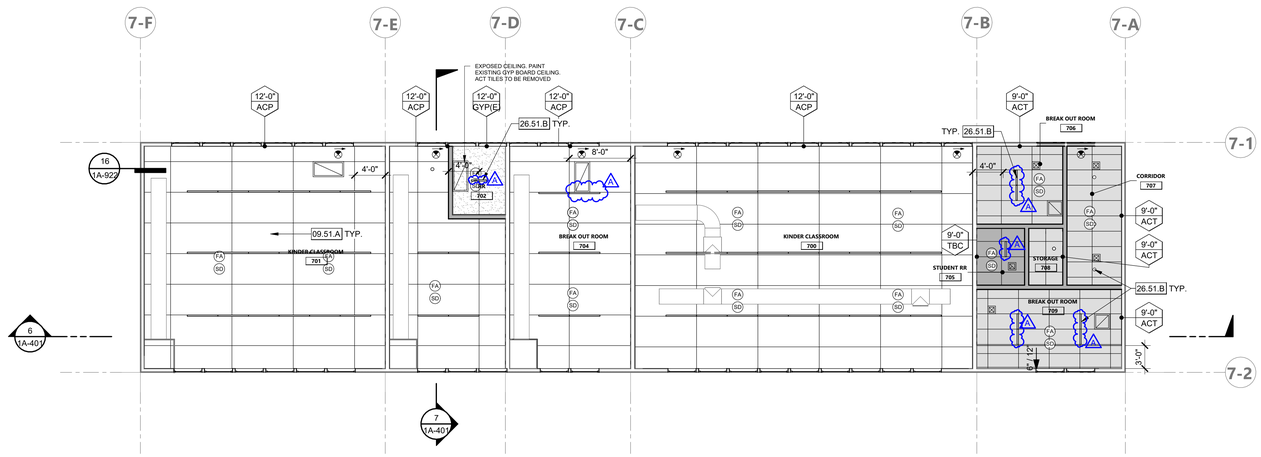
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 3:59:52 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



BLDG. 5 REFLECTED CEILING PLAN | 1/8" = 1'-0" | 1

PROJECT NORTH



BLDG. 7 REFLECTED CEILING PLAN | 1/8" = 1'-0" | 2

PROJECT NORTH

KEYNOTES

09.00.A	(E) GYPSUM BOARD TO REMAIN
09.51.A	(N) 8'X4' DIRECT CEILING MOUNT PANELS WITH EXTRA-DEEP HAT CHANNEL
09.51.B	(E) GYPSUM BOARD CEILING TO BE PAINTED AND PATCHED
09.51.C	(N) SUSPENDED ACOUSTICAL PANEL CEILING
09.53.A	(E) EXPOSED GYP. CEILING TO BE PAINTED AND PATCHED. ACT TILES TO BE REMOVED
09.54.A	(N) PANELIZED LINEAR SUSPENDED WOOD CEILING
23.31.B	(N) EXPOSED MECHANICAL DUCT PER MECHANICAL DRAWINGS, PAINTED.
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.
26.51.B	(N) RECESSED LIGHT FIXTURE, S.E.D.
27.00.B	(E) CLOCK TO BE REINSTALLED

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 21 / 1A-922

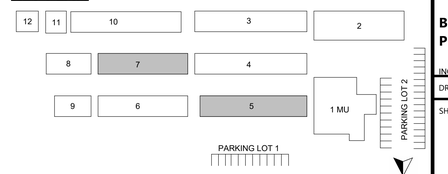
LEGEND - CEILING

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

- NEW 4x8 DIRECT ATTATCHED ACOUSTICAL PANEL CEILING (ACP) — 1A-924
- NEW 2x4 SUSPENDED ACOUSTICAL PANEL CEILING (ACT) — 1A-922
- NEW 2x4 DROPPED T-BAR CLEAN ROOM (TBC) — 1A-922
- NEW PANELIZED SUSPENDED WOOD CEILING — 1A-923
- EXISTING GWB - FRAMED GYPSUM BOARD CEILING (GYP(E))
- NEW GWB - FRAMED GYPSUM BOARD CEILING (GYP) — 1A-922, 1A-924
- NEW SUSPENDED ACOUSTICAL PANEL (HEX)
- ROOF ACCESS HATCH
- CAN LIGHT FLUSH MOUNT FIXTURE
- (E) RECESSED RECTANGULAR LIGHT FIXTURE
- NEW LINEAR PENDANT LIGHT FIXTURE S.E.D.
- EXIT SIGN. SEE ALSO ELECTRICAL LIGHTING PLANS
- SUPPLY REGISTER PER MECHANICAL DRAWINGS
- FA — FIRE ALARM PER FIRE ALARM DRAWINGS
- EXHAUST FAN OR GRILLE PER MECHANICAL DRAWINGS
- OS — OCCUPANCY SENSOR PER ELECTRICAL DRAWINGS
- AC SPLIT UNIT
- AUDIO SPEAKER
- RETURN AIR GRILLE PER MECHANICAL 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



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PROFESSIONAL STAMP

LICENSED ARCHITECT MARINKA ALVAREZ PRIGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
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A	04-15-2024	ADDENDUM

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PROJECT OWNER & TITLE

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

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 5&7 - REFLECTED CEILING PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

1A-212

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

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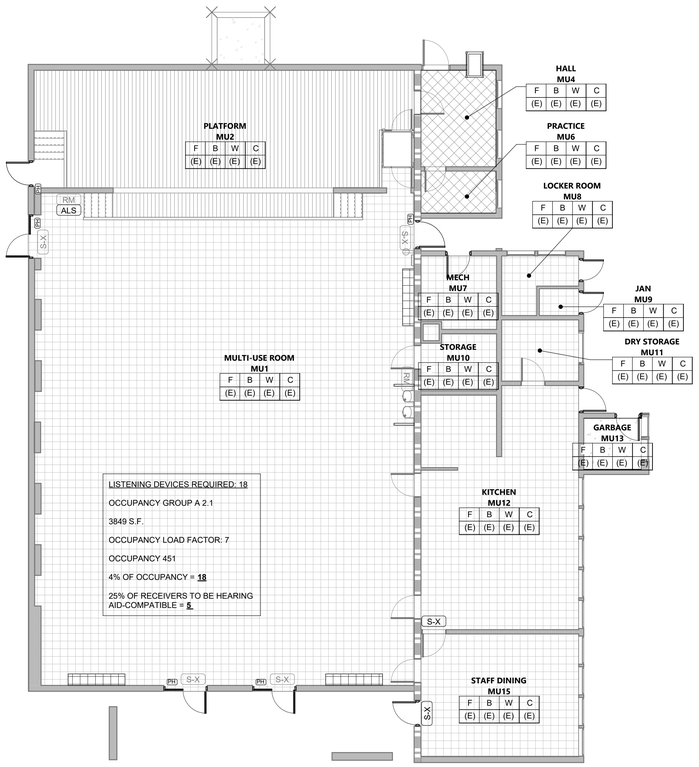


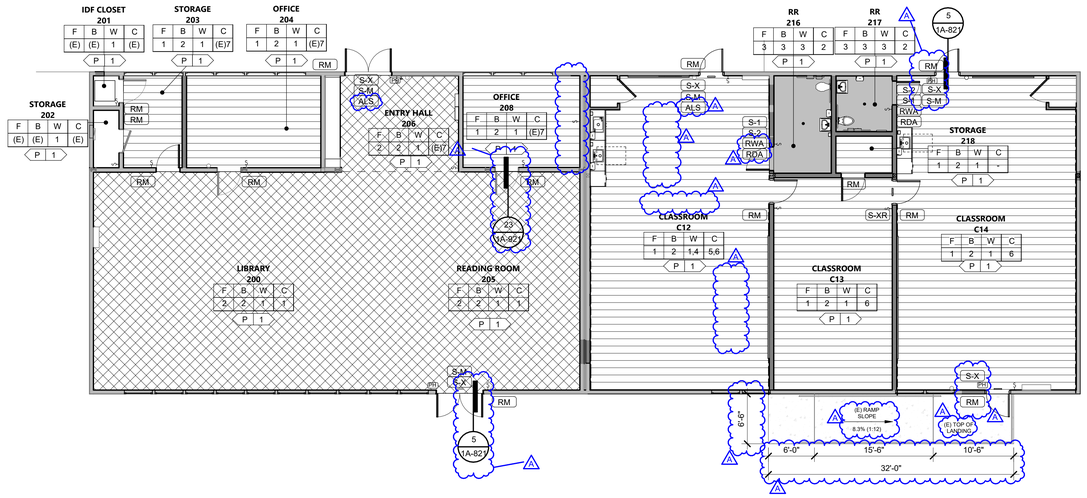
BLDG. 1 - FINISH KEY PLAN

1/8" = 1'-0"

2

FINISH SCHEDULE_BLDG 1

RM#	RM NAME	FLOOR	BASE	WALL	CEILING
MU1	MULTI-USE ROOM	(E)	(E)	(E)	(E)
MU2	PLATFORM	(E)	(E)	(E)	(E)
MU4	HALL	(E)	(E)	(E)	(E)
MU6	PRACTICE	(E)	(E)	(E)	(E)
MU7	MECH	(E)	(E)	(E)	(E)
MU8	LOCKER ROOM	(E)	(E)	(E)	(E)
MU9	JAN	(E)	(E)	(E)	(E)
MU10	STORAGE	(E)	(E)	(E)	(E)
MU11	DRY STORAGE	(E)	(E)	(E)	(E)
MU12	KITCHEN	(E)	(E)	(E)	(E)
MU13	GARBAGE	(E)	(E)	(E)	(E)
MU15	STAFF DINING	(E)	(E)	(E)	(E)



BLDG. 2 - FINISH KEY PLAN

1/8" = 1'-0"

1

FINISH SCHEDULE_BLDG 2

RM#	RM NAME	FLOOR	BASE	WALL	CEILING
200	LIBRARY	2	2	1	1
202	STORAGE	(E)	(E)	1	(E)
203	STORAGE	1	2	1	(E)7
204	OFFICE	1	2	1	(E)7
205	READING ROOM	2	2	1	1
206	ENTRY HALL	2	2	1	(E)7
208	OFFICE	1	2	1	(E)7
216	RR	3	3	3	2
217	RR	3	3	3	2
218	STORAGE	1	2	1	-
C12	CLASSROOM	1	2	1,4	5,6
C13	CLASSROOM	1	2	1	6
C14	CLASSROOM	1	2	1	6

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**

FINISHES GENERAL NOTES

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

FLOOR FINISHES (F)

(F)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING FLOOR			MATCH EXISTING ADJACENT
1.1	LVT COLOR 1			
1.2	LVT COLOR 2			
1.3	LVT COLOR 3			
2	CARPET TILE 24" x 24"			
3	EPOXY FLOORING			6" COVE BASE
4	SEALED CONCRETE			

BASE FINISHES (B)

(B)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING BASE			MATCH EXISTING ADJACENT
2	4" RUBBER BASE			
3	EPOXY COVE BASE			

WALL FINISHES (W)

(W)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING WALL			MATCH EXISTING ADJACENT
1	GYPSUM WALL BOARD	5/8" TYPE "X" TYPICAL - LEVEL 5 FINISH		
2	TACKABLE WALL PANEL 7' HIGH	1681 CEMENT MIX OR 1691 QUARTZ		CLARIDGE - TACK WALL
3	CERAMIC WALL TILE			
4	ACOUSTIC WALL PANEL		HEXAGON	SEE 21/1A-921

CEILING FINISHES (C)

(C)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARK
(E#)	EXISTING CEILING			MATCH EXISTING ADJACENT
1	DIRECT APPLY ACOUSTIC CEILING, 24" x 48" TILES	WHITE		
2	SUSPENDED ACOUSTIC CEILING, 24" x 48" TILES	WHITE	CLEAN ROOM	
3	SUSPENDED ACOUSTIC CEILING, 24" x 48" TILES	WHITE	T-BAR	
4	WOODWORKS LINEAR CEILING	TBD	SUSPENDED	PAINT EXPOSED CEILING/JOISTS/BLOCKING
5	FELT SUSPENDED ACOUSTIC PANELS	TBD	HEXAGON	PAINT EXPOSED CEILING/JOISTS/BLOCKING
6	ACOUSTIC PANEL 36"X36"	TBD	STRUCTURE ATTACHED TO JOIST	PAINT EXPOSED CEILING/JOISTS/BLOCKING
7	5/8" GYP BOARD	WHITE		

PAINT (P)

(P)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARK
(E#)	EXISTING PAINT			MATCH EXISTING ADJACENT
1	INTERIOR WALL PAINT	SW7757 HIGH REFLECTIVE WHITE	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
2	INTERIOR CLASSROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF. FLAT	SHERWIN WILLIAMS
3	INTERIOR RESTROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF. SEMIGLOSS	SHERWIN WILLIAMS
4	EXTERIOR PAINT	TBD		
5	EXTERIOR TRIM	TBD		

FINISHES PLAN

- LUXURY VINYL TILE
- CARPET
- RESINOUS FLOORING (EPOXY)

ROOM NAME — ROOM NAME
— ROOM NUMBER

F	B	W	C
-	-	-	-

FINISH LOCATION
FINISH MATERIAL

LEGEND - SIGNAGE GENERAL NOTES

1. ALL SIGNS ON GLAZING TO BE MOUNTED BACK TO BACK. SEE DETAIL 5/1A-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.

LEGEND - SIGNAGE SYMBOLS

(E)	(N)		
RM	RM	ROOM NAME / NUMBER SIGN, SEE DETAILS	2/1A-925
S-1	S-1	TOILET ROOM DOOR SYMBOL, SEE DETAILS	18/1A-925
S-2	S-2	TOILET ROOM WALL SIGN, SEE DETAILS	13/1A-925
S-X	S-X	TACTILE "EXIT" SIGN (INTERIOR), SEE DETAILS	7/1A-925
S-XR	S-XR	TACTILE "EXIT ROUTE" SIGN (INTERIOR), SEE DETAILS	10/1A-925
S-M	S-M	"MAXIMUM OCCUPANCY" SIGN (INTERIOR), SEE DETAIL	15/1A-925
ALS	ALS	ASSISTIVE LISTENING SIGN, SEE DETAIL	14/1A-925
RWA	RWA	RESTROOM WALL - ALL-GENDER	13/1A-925
RDA	RDA	RESTROOM DOOR - ALL-GENDER	18/1A-925

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REN. 01-31-25
STATE OF CALIFORNIA

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SHEET TITLE

BLDG 1&2 - FINISH & SIGNAGE PLAN

ING.1

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

1A-251

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

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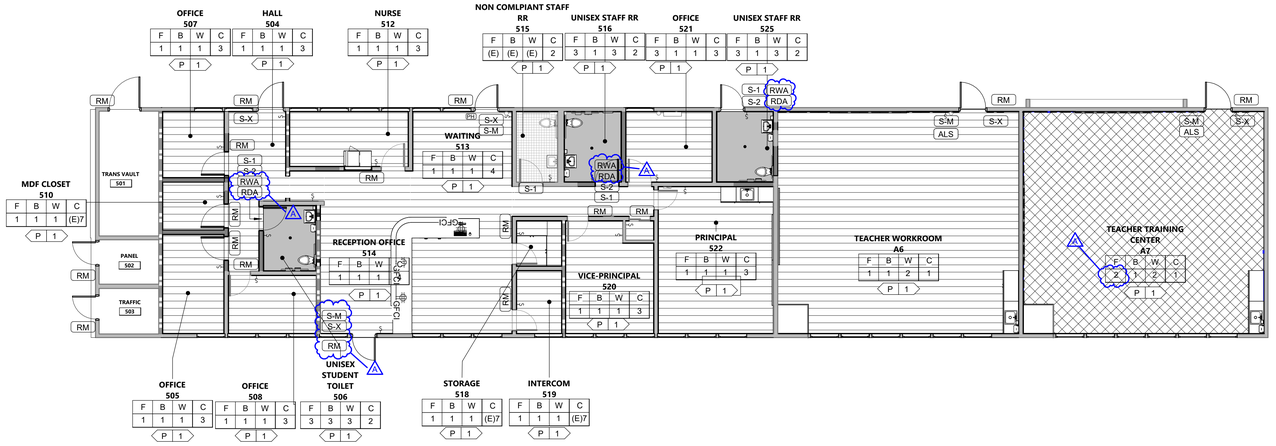

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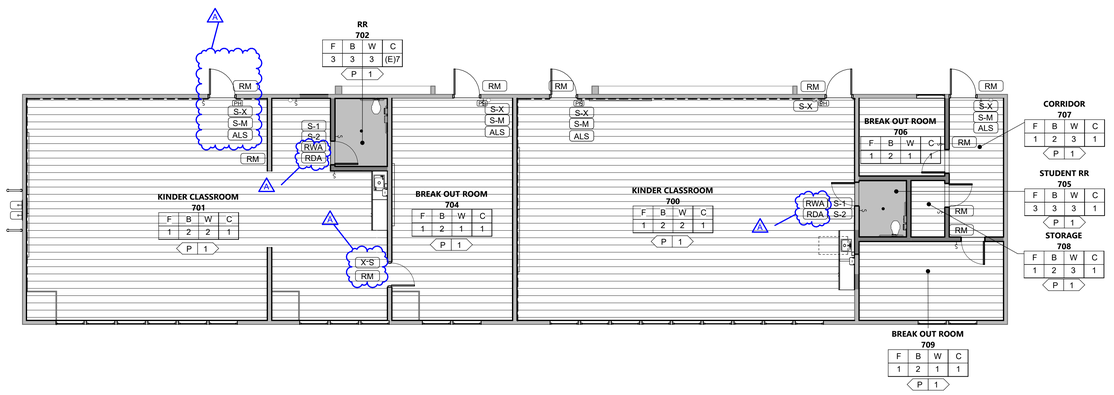
28*(.25)= **7**

BLDG. 5 - FINISH KEY PLAN

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

FINISH SCHEDULE_BLDG 5

RM#	RM NAME	FLOOR	BASE	WALL	CEILING
501	TRANS VAULT				
502	PANEL				
503	TRAFFIC				
504	HALL	1	1	1	3
505	OFFICE	1	1	1	3
506	UNISEX STUDENT TOILET	3	3	3	2
507	OFFICE	1	1	1	3
508	OFFICE	1	1	1	3
510	MDF CLOSET	1	1	1	(E)7
512	NURSE	1	1	1	3
513	WAITING	1	1	1	4
514	RECEPTION OFFICE	1	1	1	4
515	NON COMLPIANT STAFF RR	(E)	(E)	(E)	2
516	UNISEX STAFF RR	3	1	3	2
518	STORAGE	1	1	1	(E)7
519	INTERCOM	1	1	1	(E)7
520	VICE-PRINCIPAL	1	1	1	3
521	OFFICE	3	1	1	3
522	PRINCIPAL	1	1	1	3
525	UNISEX STAFF RR	3	1	3	2
A6	TEACHER WORKROOM	1	1	2	1
A7	TEACHER TRAINING CENTER	2	1	2	1



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

BLDG. 7 - FINISH KEY PLAN

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

FINISH SCHEDULE_BLDG 7

RM#	RM NAME	FLOOR	BASE	WALL	CEILING
700	KINDER CLASSROOM	1	2	2	1
701	KINDER CLASSROOM	1	2	2	1
702	RR	3	3	3	(E)7
704	BREAK OUT ROOM	1	2	1	1
705	STUDENT RR	3	3	3	1
706	BREAK OUT ROOM	1	2	1	1
707	CORRIDOR	1	2	3	1
709	BREAK OUT ROOM	1	2	1	1

FINISHES GENERAL NOTES

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FLOOR FINISHES (F)

(F)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING FLOOR			MATCH EXISTING ADJACENT
1.1	LVT COLOR 1			
1.2	LVT COLOR 2			
1.3	LVT COLOR 3			
2	CARPET TILE 24" x 24"			
3	EPOXY FLOORING			6" COVE BASE
4	SEALED CONCRETE			

BASE FINISHES (B)

(B)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING BASE			MATCH EXISTING ADJACENT
2	4" RUBBER BASE			
3	EPOXY COVE BASE			

WALL FINISHES (W)

(W)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARKS
(E#)	EXISTING WALL			MATCH EXISTING ADJACENT
1	GYPSUM WALL BOARD	5/8" TYPE "X" TYPICAL - LEVEL 5 FINISH		
2	TACKABLE WALL PANEL 7' HIGH	1681 CEMENT MIX OR 1691 QUARTZ		CLARIDGE - TACK WALL
3	CERAMIC WALL TILE			
4	ACOUSTIC WALL PANEL		HEXAGON	SEE 21/1A-921

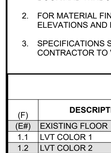
CEILING FINISHES (C)

(C)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARK
(E#)	EXISTING CEILING			MATCH EXISTING ADJACENT
1	DIRECT APPLY ACOUSTIC CEILING, 24" x 48" TILES	WHITE		
2	SUSPENDED ACOUSTIC CEILING, 24" x 48" TILES	WHITE	CLEAN ROOM	
3	SUSPENDED ACOUSTIC CEILING, 24" x 48" TILES	WHITE	T-BAR	
4	WOODWORKS LINEAR CEILING	TBD	SUSPENDED	PAINT EXPOSED CEILING/JOISTS/BLOCKING
5	FELT SUSPENDED ACOUSTIC PANELS	TBD	HEXAGON	PAINT EXPOSED CEILING/JOISTS/BLOCKING
6	ACOUSTIC PANEL 36"X36"	TBD	STRUCTURE ATTACHED TO JOIST	PAINT EXPOSED CEILING/JOISTS/BLOCKING
7	5/8" GYP BOARD	WHITE		

PAINT (P)

(P)	DESCRIPTION	COLOR	SPECIFICATION SECTION	REMARK
(E#)	EXISTING PAINT			MATCH EXISTING ADJACENT
1	INTERIOR WALL PAINT	SW7757 HIGH REFLECTIVE WHITE	SHADOW SEMIGLOSS	SHERWIN WILLIAMS
2	INTERIOR CLASSROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF. FLAT	SHERWIN WILLIAMS
3	INTERIOR RESTROOM CEILING PAINT	SW7757 HIGH REFLECTIVE WHITE	PROF. SEMIGLOSS	SHERWIN WILLIAMS
4	EXTERIOR PAINT	TBD		
5	EXTERIOR TRIM	TBD		

FINISHES PLAN



LEGEND - SIGNAGE GENERAL NOTES

1. ALL SIGNS ON GLAZING TO BE MOUNTED BACK TO BACK. SEE DETAIL 5/1A-925
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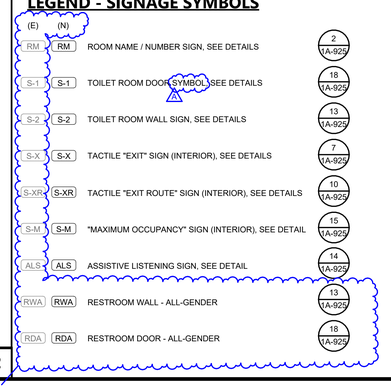
LEGEND - SIGNAGE SYMBOLS



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PROFESSIONAL STAMP

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

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SHEET TITLE

BLDG 5&7 - FINISH & SIGNAGE PLAN

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

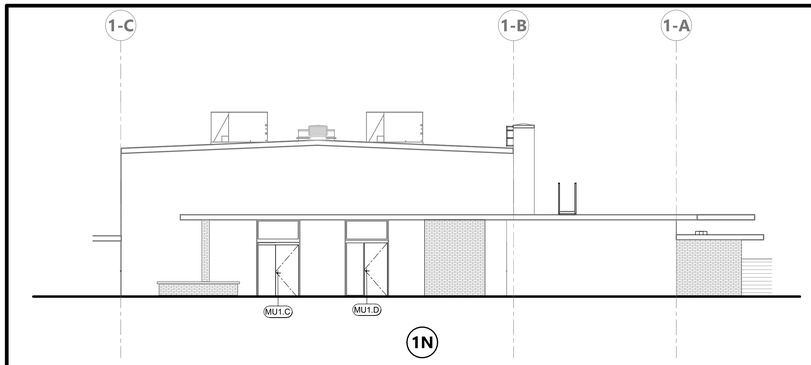
SHEET NO.

1A-252

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 4:00:22 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDIUSD_RIO VISTA ES MOD_INC01_A22.rvt



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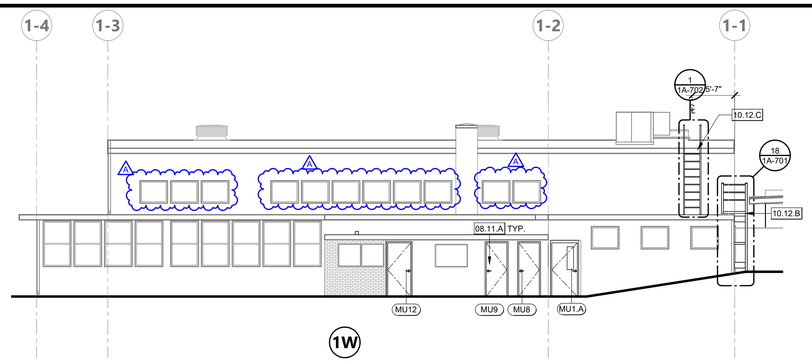

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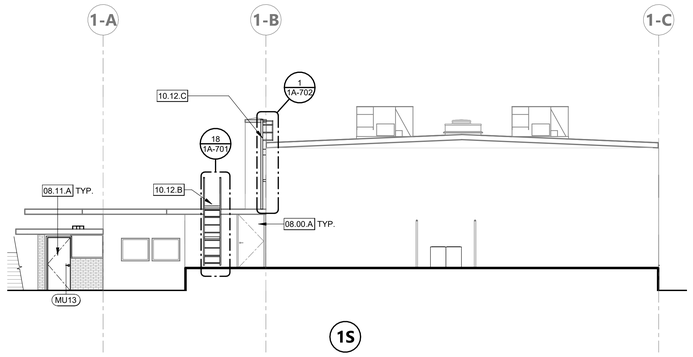

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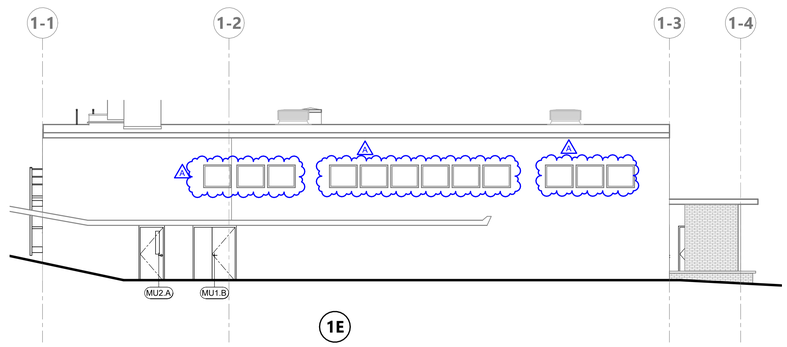

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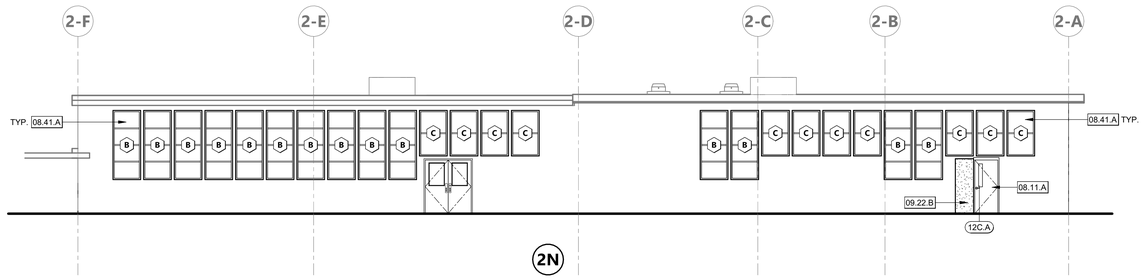
BLDG. 1 (MPR) EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 1



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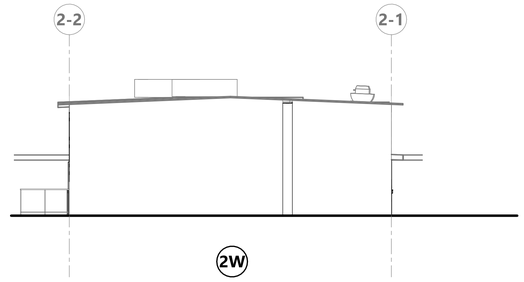

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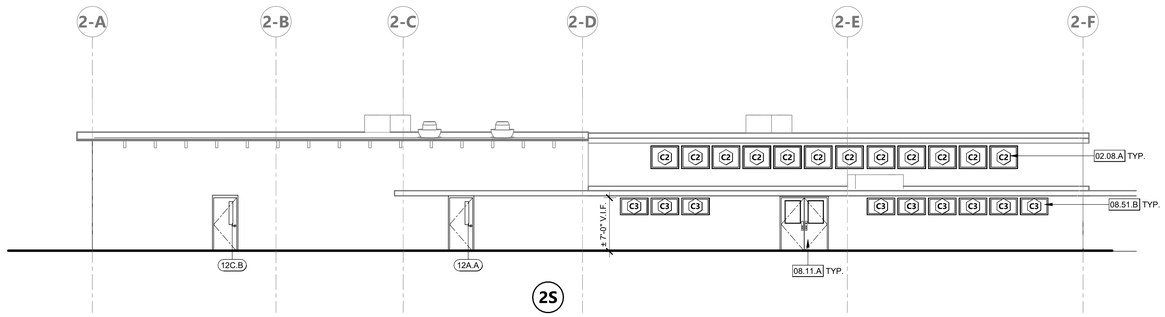

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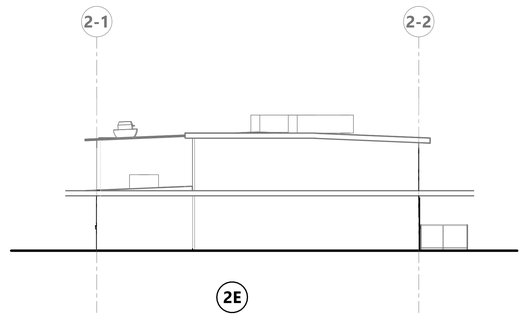


2E

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

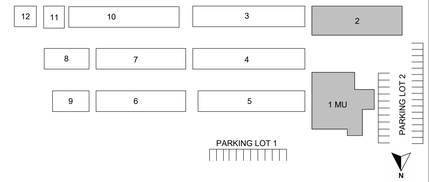
KEYNOTES

02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
08.00.A	(E) DOOR AND FRAME TO REMAIN AND BE PAINTED
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.51.B	(N) FIXED HOLLOW METAL WINDOW
09.22.B	(N) INFILL WALL. PATCH AND PAINT. MATCH EXISTING PAINT WHEN SURFACE IS NOT PART OF INTERIOR PAINTING SCOPE.
10.12.B	TUBULAR RAIL LOW PARAPET ACCESS ALUMINUM LADDER WITH PLATAFORM. MODEL 503A
10.12.C	ALUMINUM LADDER, HEAVY DUTY TUBULAR RAIL. LOW PARAPET ACCESS W/ROOF OVER RAIL EXTENSIONS, MODEL 502

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.

KEY PLAN



AGENCY APPROVAL DSA# 01-121440

196

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REN. 01-31-25
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
	04-01-2024	BID SET
A	04-15-2024	ADDENDUM

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PROJECT OWNER & TITLE

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

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 1&2 - EXTERIOR ELEVATIONS

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

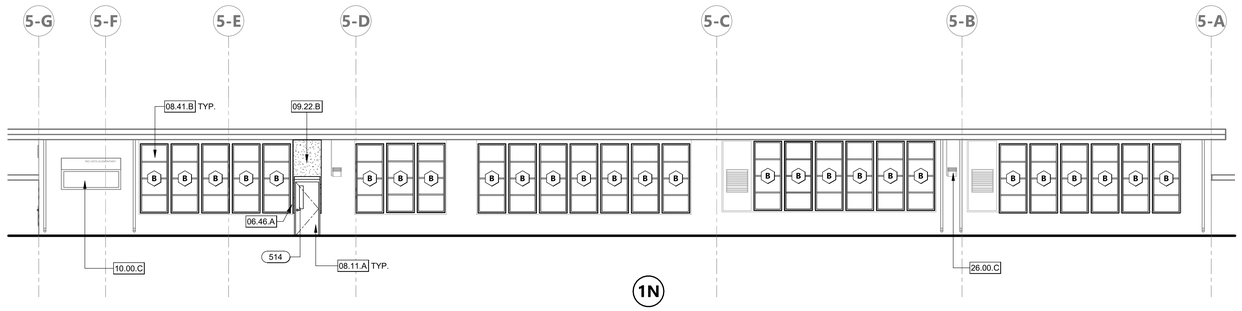
SHEET NO.

1A-301

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 4:00:32 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



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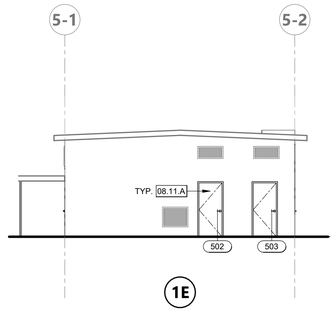

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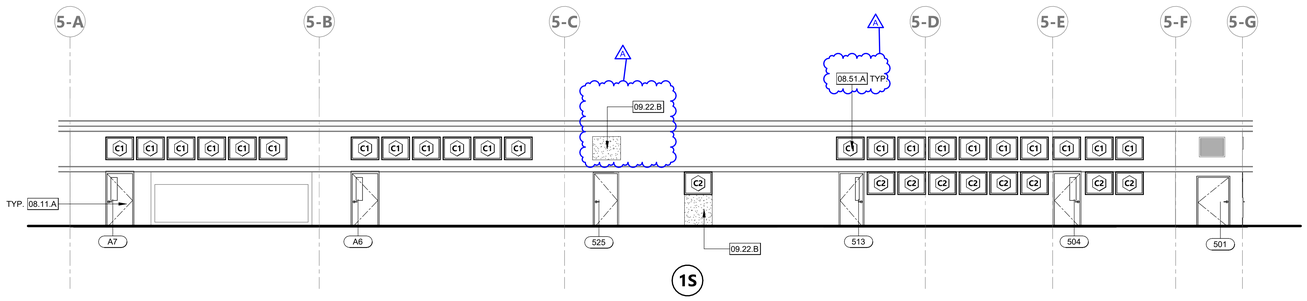

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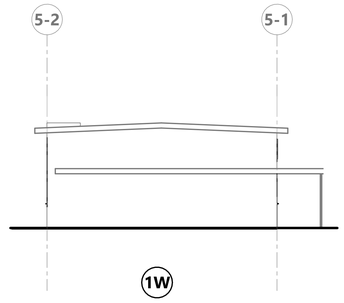

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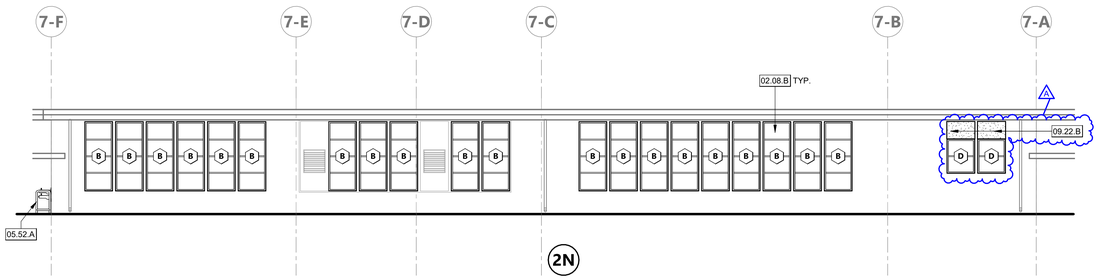
KEYNOTES

02.08.B	(E) STOREFRONT WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
05.52.A	(N) DRINKING FOUNTAIN GRAB RAIL
06.46.A	(E) EXTERIOR WOOD TRIM TO BE PROTECTED. SMOOTH, PAINT, AND PATCH SURFACE AS NEEDED TO MATCH EXISTING.
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.41.B	(N) STOREFRONT ALUMINUM DOOR
08.51.A	(N) CLERESTORY WINDOWS
09.22.B	(N) INFILL WALL. PATCH AND PAINT. MATCH EXISTING PAINT WHEN SURFACE IS NOT PART OF INTERIOR PAINTING SCOPE.
10.00.C	(E) DIGITAL BOARD SIGN TO BE PROTECTED IN PLACE.
26.00.C	(E) OUTDOOR LIGHTING FIXTURE TO BE PROTECTED IN PLACE.

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.

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



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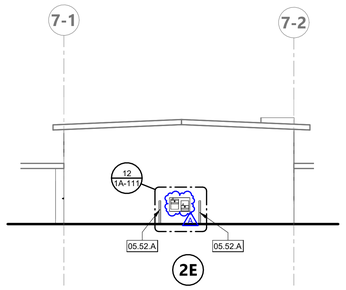

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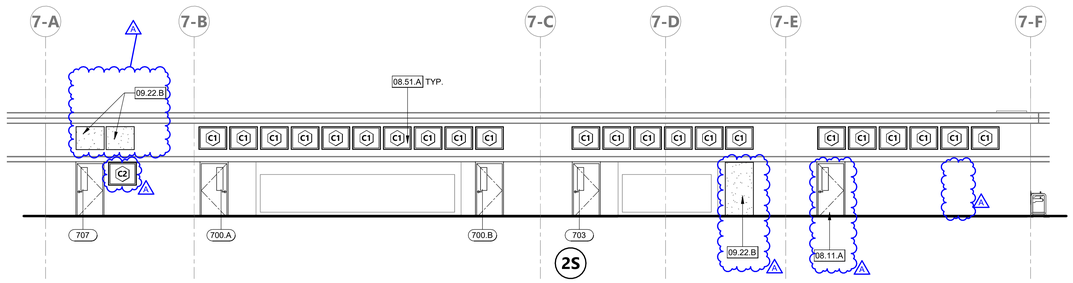

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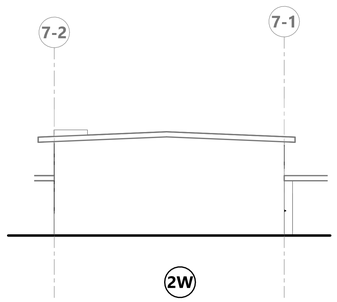

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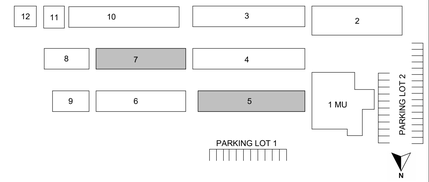
BLDG. 7 EXTERIOR ELEVATIONS | 1/8" = 1'-0" | 2

KEY PLAN



AGENCY APPROVAL DSA# 01-121440

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MARIANA ALVAREZ FARGA
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STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
	04-01-2024	BID SET
A	04-15-2024	ADDENDUM

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

BLDG 5&7 - EXTERIOR ELEVATIONS

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

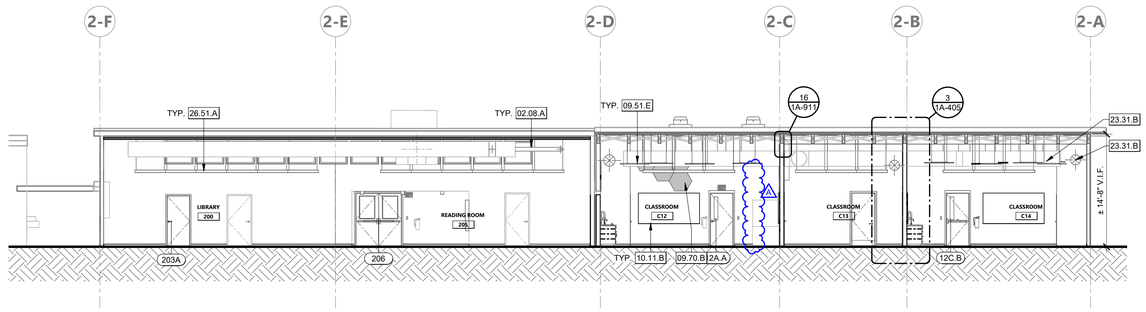
SHEET NO.

1A-302

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 4:00:40 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



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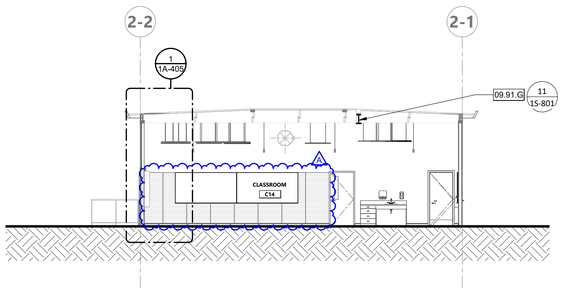

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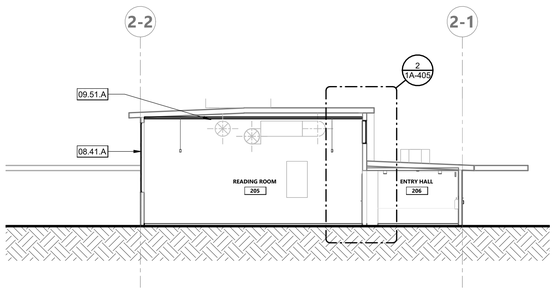

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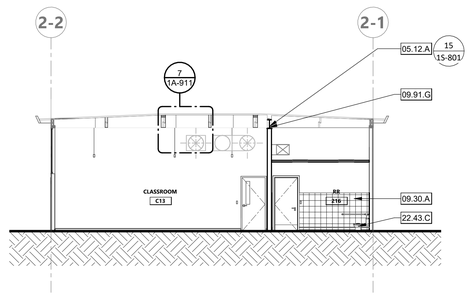

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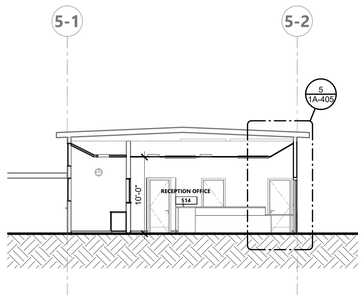

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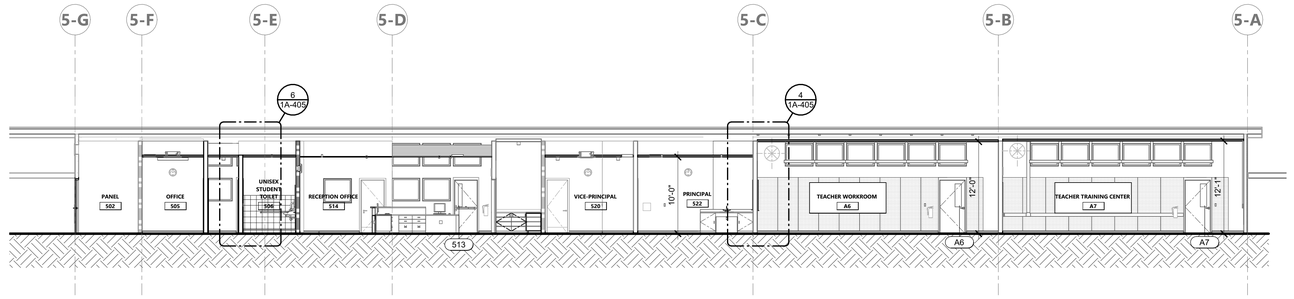
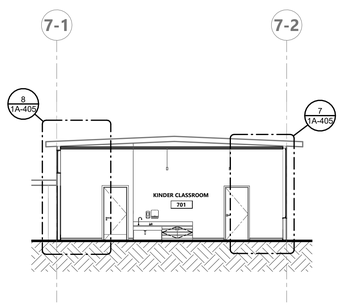


BLDG. 5 - SECTION BB | 1/8" = 1'-0" | **5**



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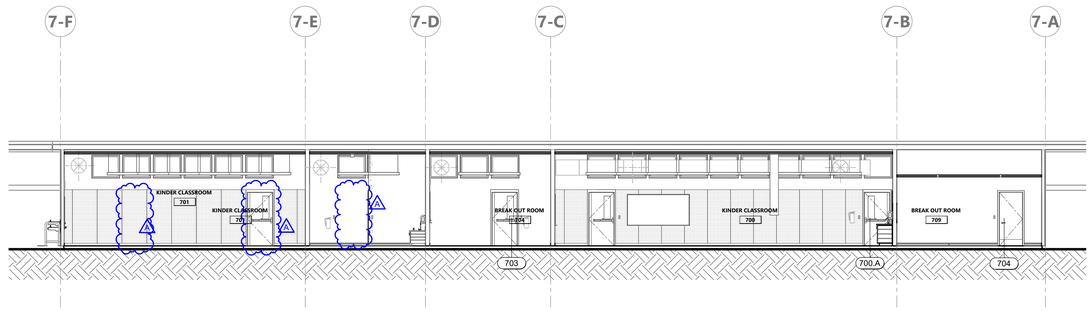


BLDG. 7 - SECTION AA | 1/8" = 1'-0" | **6**

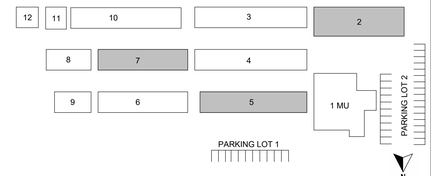
KEYNOTES

02.08.A	(E) CLERESTORY WINDOWS AND FRAME TO BE DEMOLISHED. PROTECT EXISTING OPENING
05.12.A	STRUCTURAL STEEL BEAM PER STRUCTURAL DRAWINGS
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
09.30.A	(N) CERAMIC TILE. REFER TO FINISH SCHEDULE.
09.51.A	(N) 8'X4' DIRECT CEILING MOUNT PANELS WITH EXTRA-DEEP HAT CHANNEL
09.51.E	(N) PENDANT HEXAGON ACOUSTIC CEILING PANEL
09.70.B	(N) WALL MOUNTED HEXAGON ACOUSTIC PANEL
09.91.G	PAINT (N) I-BEAM AND BRACE
10.11.B	(N) WALL MOUNTED WHITEBOARD
22.43.C	(N) ACC. WATER CLOSET, PER MOUNTING DETAILS AND PLUMBING DRAWINGS
23.31.B	(N) EXPOSED MECHANICAL DUCT PER MECHANICAL DRAWINGS, PAINTED.
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.

SECTIONS GENERAL NOTES

1. NOTE 1

KEY PLAN



AGENCY APPROVAL DSA# 01-121440

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PROFESSIONAL STAMP

LICENSED ARCHITECT MARINA ALEXANDRA MENDEZ 34107 REN. 01-31-25 STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	DESCRIPTION
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A	04-15-2024	ADDENDUM

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Bay Point, CA 94565

SHEET TITLE

BUILDING SECTIONS

INC.1

DRAWN BY: MP JOB NUMBER: 23118.01

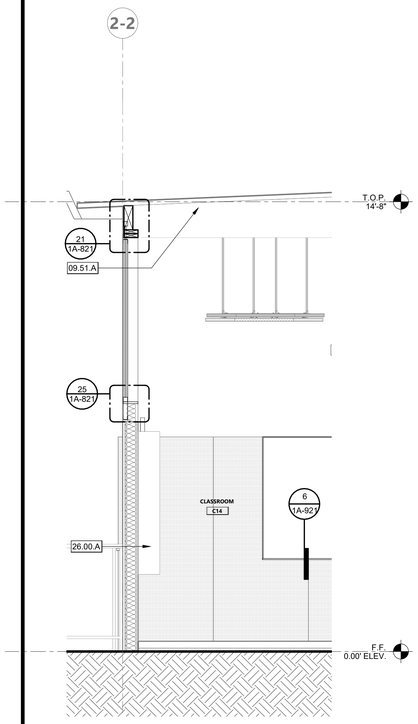
SHEET NO.

1A-401

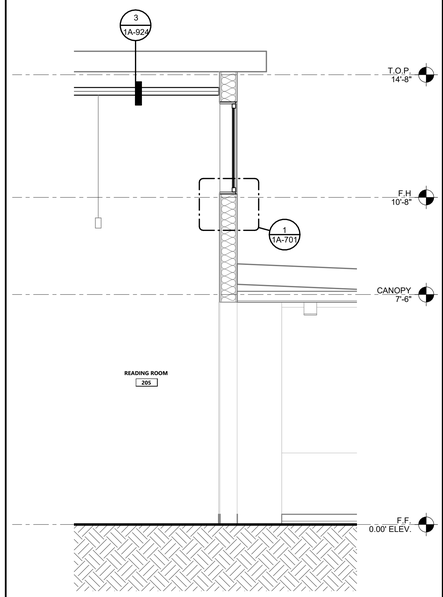
DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

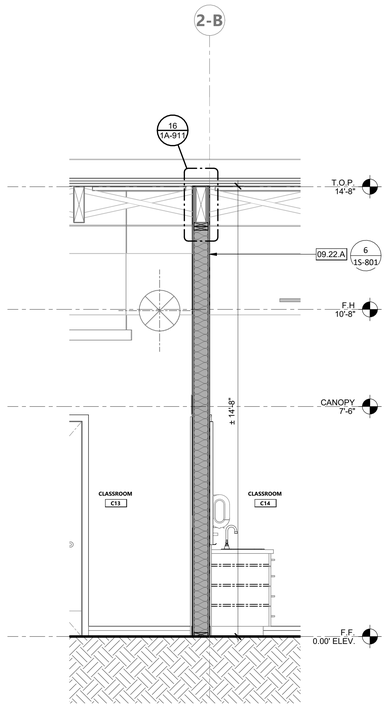
DATE PLOTTED: 4/16/2024 4:00:47 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



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



BLDG. 2 - WALL SECTION BB | 1/2" = 1'-0" | 2



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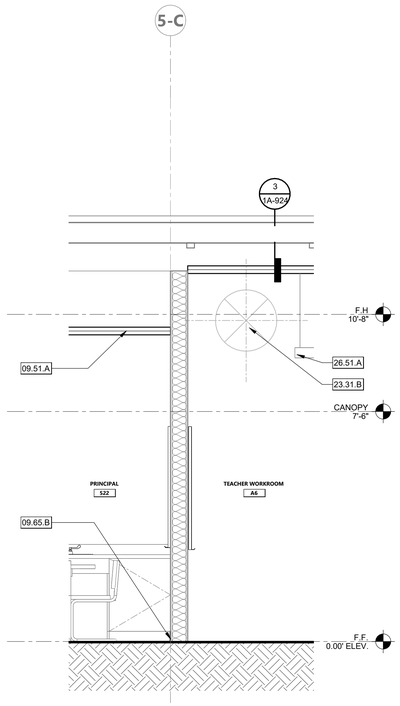
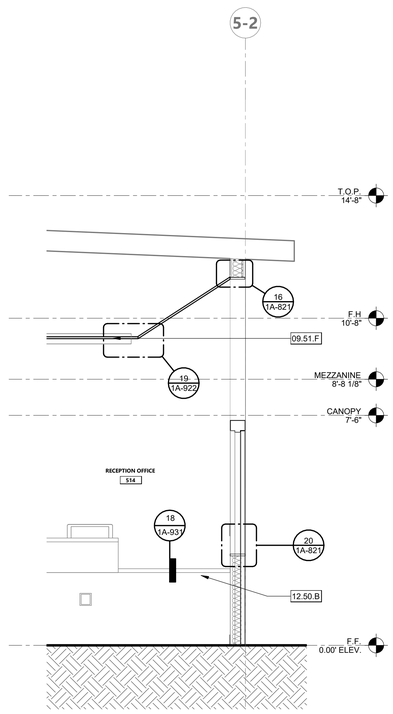


BLDG. 5 - WALL SECTION AA | 1/2" = 1'-0" | 4



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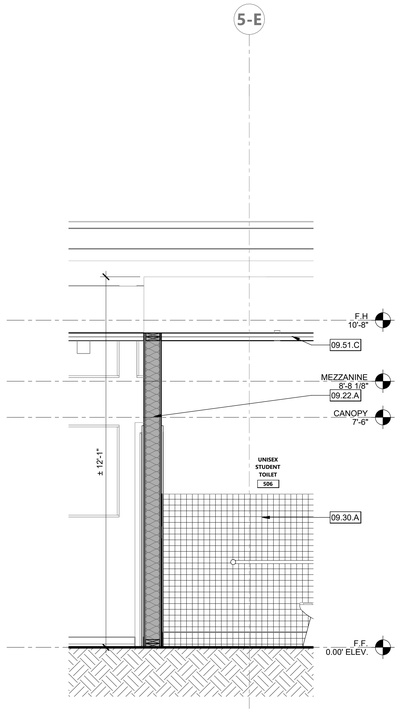
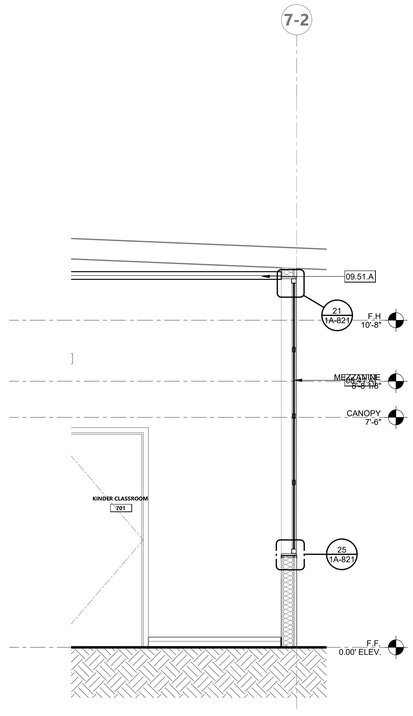
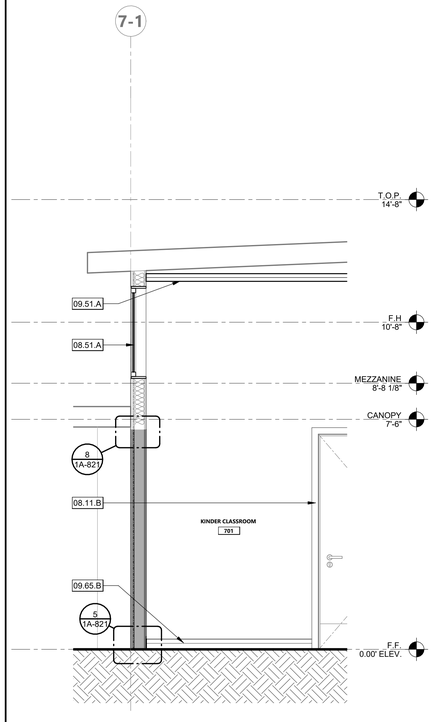


BLDG. 5 - WALL SECTION CC | 1/2" = 1'-0" | 6



BLDG 7 - WALL SECTION AA | 1/2" = 1'-0" | 7



BLDG 7 - WALL SECTION BB | 1/2" = 1'-0" | 8

KEYNOTES

08.11.B	(N) WOOD DOOR AND FRAME, PAINTED
08.41.A	(N) ALUMINUM STOREFRONT WINDOW
08.51.A	(N) CLERESTORY WINDOWS
09.22.A	(N) PARTITION WALL
09.30.A	(N) CERAMIC TILE. REFER TO FINISH SCHEDULE.
09.51.A	(N) 8'X4' DIRECT CEILING MOUNT PANELS WITH EXTRA-DEEP HAT CHANNEL
09.51.C	(N) SUSPENDED ACOUSTICAL PANEL CEILING
09.51.F	(N) GYPSUM BOARD CEILING PATCH
09.65.B	(N) 4" WALL BASE. SEE FINISH SCHEDULE
12.50.B	(N) SOLID SURFACE BUILT-IN FRONT DESK. SEE 1A-931
23.31.B	(N) EXPOSED MECHANICAL DUCT PER MECHANICAL DRAWINGS, PAINTED.
26.00.A	(E) ELECTRICAL PANEL TO REMAIN PROTECT DURING CONSTRUCTION. S.E.D.
26.51.A	(N) LED PENDANT LIGHTS, S.E.D.

LEGEND - WALL SECTIONS GENERAL NOTES

1. NOTE 1

AGENCY APPROVAL DSA# 01-121440

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

REVISIONS

NO.	DATE	DESCRIPTION
	04-01-2024	BID SET
A	04-15-2024	ADDENDUM

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

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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

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Bay Point, CA 94565

SHEET TITLE

BLDG 2,5&7 - WALL SECTIONS

INC.1

DRAWN BY: MP JOB NUMBER: 23118.01

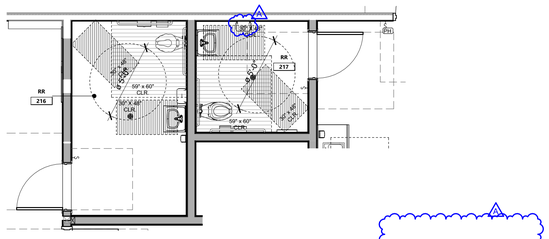
SHEET NO.

1A-405

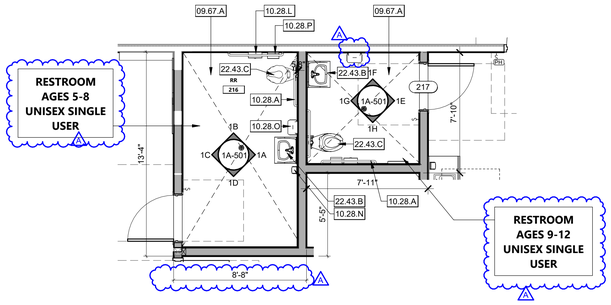
DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 4:00:53 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



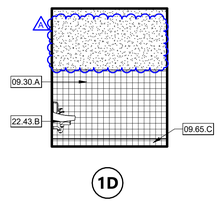
CLEARANCE PLAN



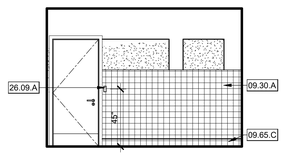
FLOOR PLAN

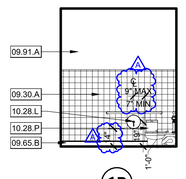
BLDG. 2 - ENLARGED FLOOR PLAN - STUDENT RR 216, 217

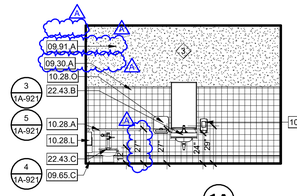
1/4" = 1'-0" | 4

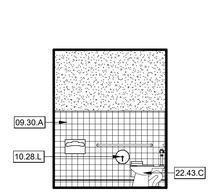


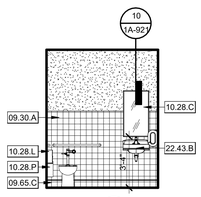
RESTROOM AGES 5-8

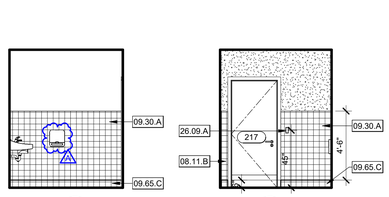












RESTROOM AGES 9-12

BLDG. 2 - 216, 217 - INTERIOR ELEVATIONS

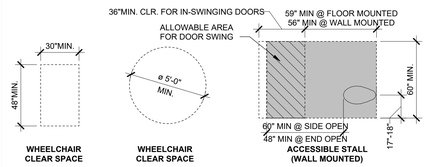
1/4" = 1'-0" | 1

KEYNOTES

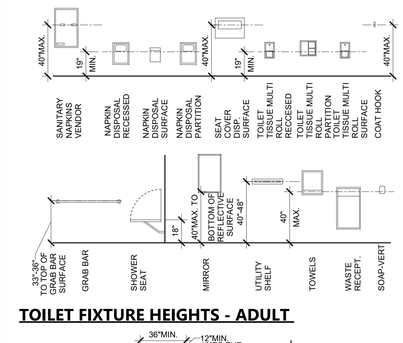
08.11.A	(N) EXTERIOR FRP FLUSH DOOR INSTALLED IN THE EXISTING WOOD FRAME
08.11.B	(N) WOOD DOOR AND FRAME, PAINTED
09.22.B	(N) INFILL WALL. PATCH AND PAINT. MATCH EXISTING PAINT WHEN SURFACE IS NOT PART OF INTERIOR PAINTING SCOPE.
09.30.A	(N) CERAMIC TILE. REFER TO FINISH SCHEDULE.
09.65.B	(N) 4" WALL BASE. SEE FINISH SCHEDULE
09.65.C	(N) 6" WALL BASE. SEE FINISH SCHEDULE
09.67.A	(N) EPOXY FLOORING. SEE FINISH SCHEDULE.
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
10.28.A	(N) GRAB BAR. MAINTAIN 1-1/2" CLEAR AROUND/BELOW GRAB BAR. PER MOUNTING DETAILS
10.28.C	(N) ACC. MIRROR, PER MOUNTING DETAILS
10.28.L	(N) SURFACE MOUNT TOILET TISSUE DISPENSER. PER MOUNTING DETAILS
10.28.N	(N) SURFACE MOUNT SOAP DISPENSER, PER MOUNTING DETAILS
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER. PER MOUNTING DETAILS
10.28.P	(N) SURFACE MOUNT TOILET TISSUE DISPOSAL DISPENSER
22.43.B	(N) ACC. LAVATORY, PER MOUNTING DETAILS AND PLUMBING DRAWINGS
22.43.C	(N) ACC. WATER CLOSET, PER MOUNTING DETAILS AND PLUMBING DRAWINGS
26.09.A	(N) LIGHT SWITCH, S.E.D.

LEGEND - ACCESSIBLE HEIGHTS CLEARANCES

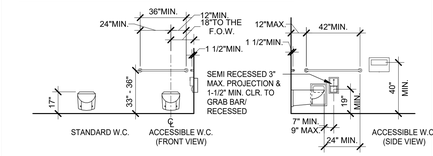
FOR ADDITIONAL ACCESS REQUIREMENTS, SEE TG-900

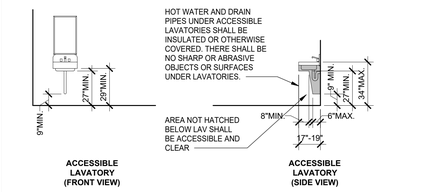


MOUNTING HEIGHTS

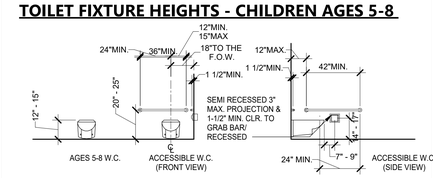


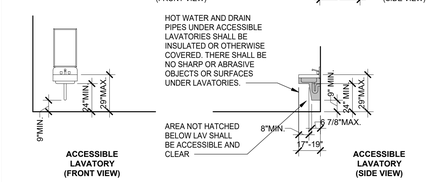
TOILET FIXTURE HEIGHTS - ADULT





TOILET FIXTURE HEIGHTS - CHILDREN AGES 5-8





AGENCY APPROVAL DSA# 01-121440

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
	04-01-2024	BID SET
A	04-15-2024	ADDENDUM

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
1936 Carlotta Dr. Concord
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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

RESTROOM PLAN ENLARGEMENTS

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

SHEET NO.

1A-501

DATE: APRIL 12, 2024

CLEARANCE PLAN

FLOOR PLAN

UNISEX SINGLE USER

BLDG. 5 - ENLARGED FLOOR PLAN - STAFF RR 516

1/4" = 1'-0" | 5

RESTROOM ADULT

BLDG. 2 - 516 - RR INTERIOR ELEVATIONS

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

CLEARANCE PLAN

FLOOR PLAN

UNISEX SINGLE USER

BLDG. 5 - ENLARGED FLOOR PLAN - STAFF RR 525

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

RESTROOM ADULT

BLDG. 5 - 525 RR - INTERIOR ELEVATIONS

1/4" = 1'-0" | 3

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.	31" MAX.	31" 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"	26"-35"	26"-35"	
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	44" MAX.	
URINAL LIP HEIGHT	17" MAX.	17" MAX.	17" MAX.	

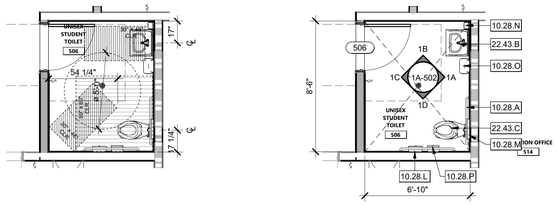
LEGEND - RESTROOM GENERAL NOTES

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

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt

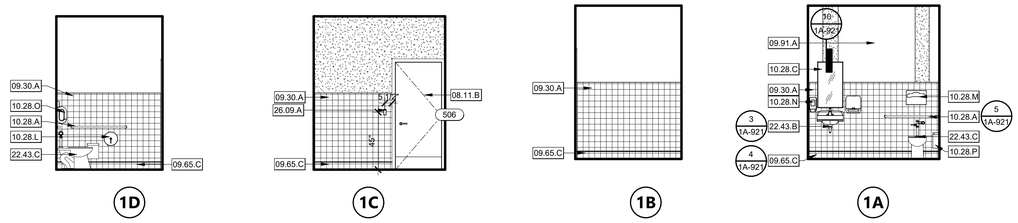
DATE PLOTTED: 4/16/2024 4:01:15 PM



CLEARANCE PLAN | **RESTROOM UNISEX SINGLE USER AGES 9-12** | **FLOOR PLAN**

BLDG. 5 - ENLARGED FLOOR PLAN - STUDENT TOILET 506

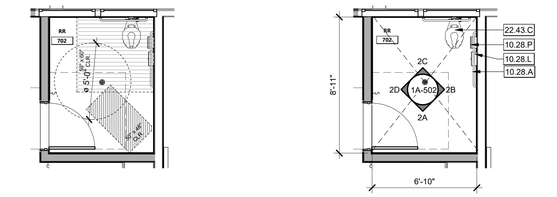
1/4" = 1'-0" | 4



RESTROOM AGES 9-12

BLDG. 5 - 506 RR - INTERIOR ELEVATIONS

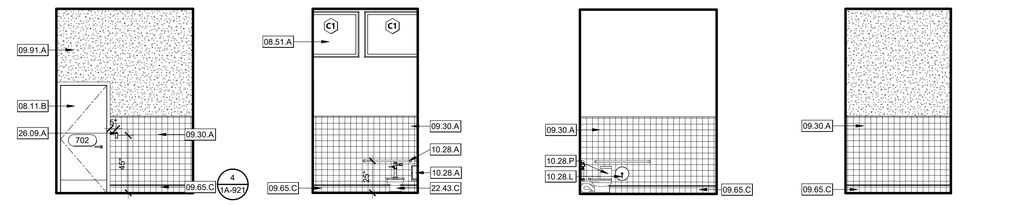
1/4" = 1'-0" | 1



CLEARANCE PLAN | **RESTROOM UNISEX SINGLE USER AGES 5-8** | **FLOOR PLAN**

BLDG. 7 ENLARGED FLOOR PLAN - STUDENT TOILET 702

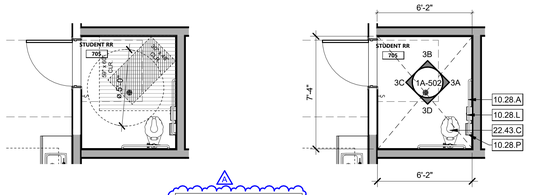
1/4" = 1'-0" | 5



RESTROOM AGES 5-8

BLDG. 7 - 702 RR - INTERIOR ELEVATIONS

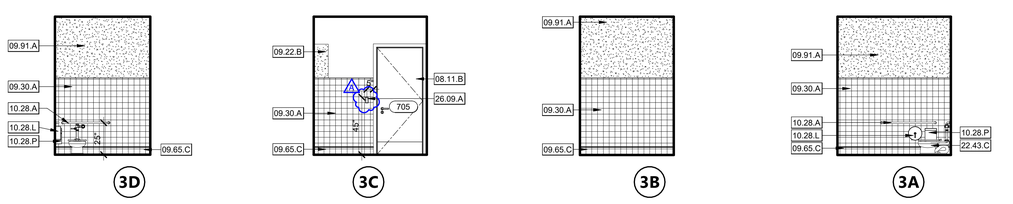
1/4" = 1'-0" | 2



CLEARANCE PLAN | **RESTROOM UNISEX SINGLE USER AGES 5-8** | **FLOOR PLAN**

BLDG. 7 FLOOR PLAN - STUDENT TOILET 705

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



RESTROOM AGES 5-8

BLDG. 7 - 705 - RR INTERIOR ELEVATIONS

1/4" = 1'-0" | 3

CLEARANCE TO FINISH SURFACE				
		FOR CHILDREN'S USE		CBC TABLE 11B-604.9
FIXTURE	ADULT	AGES 5-8	AGES 9-12	
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.	31" MAX.	31" 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.	44" MAX.	44" MAX.	
URINAL LIP HEIGHT	17" MAX.	17" MAX.	17" MAX.	

LEGEND - RESTROOM GENERAL NOTES

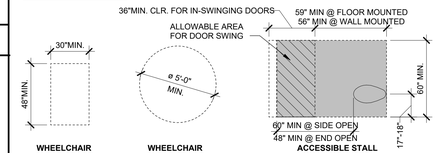
1. MOUNTING HEIGHTS SHOWN ARE TYPICAL, UNLESS OTHERWISE NOTED.
2. ALL ACCESSORIES SHALL BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 40" ABOVE FINISH FLOOR.
3. SLOPE FLOORS 1/8" PER FOOT MINIMUM AND 1/4" PER FOOT MAXIMUM, UNLESS NOTED OTHERWISE.
4. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS 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

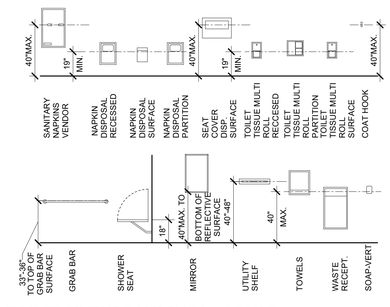
08.11.B	(N) WOOD DOOR AND FRAME, PAINTED
08.51.A	(N) CLERESTORY WINDOWS
09.22.B	(N) INFILL WALL. PATCH AND PAINT. MATCH EXISTING PAINT WHEN SURFACE IS NOT PART OF INTERIOR PAINTING SCOPE.
09.30.A	(N) CERAMIC TILE. REFER TO FINISH SCHEDULE.
09.65.C	(N) 6" WALL BASE. SEE FINISH SCHEDULE
09.91.A	ALL INTERIOR SURFACES TO BE PAINTED, SEE FINISH SCHEDULE FOR PAINT COLOR INFORMATION
10.28.A	(N) GRAB BAR. MAINTAIN 1-1/2" CLEAR AROUND/BELOW GRAB BAR. PER MOUNTING DETAILS
10.28.C	(N) ACC. MIRROR, PER MOUNTING DETAILS
10.28.L	(N) SURFACE MOUNT TOILET TISSUE DISPENSER. PER MOUNTING DETAILS
10.28.M	(N) SURFACE MOUNT TOILET SEAT PROTECTOR DISPENSER, PER MOUNTING DETAILS
10.28.N	(N) SURFACE MOUNT SOAP DISPENSER, PER MOUNTING DETAILS
10.28.O	(N) SURFACE MOUNT PAPER TOWEL DISPENSER. PER MOUNTING DETAILS
10.28.P	(N) SURFACE MOUNT TOILET TISSUE DISPOSAL DISPENSER
22.43.B	(N) ACC. LAVATORY, PER MOUNTING DETAILS AND PLUMBING DRAWINGS
22.43.C	(N) ACC. WATER CLOSET, PER MOUNTING DETAILS AND PLUMBING DRAWINGS
26.09.A	(N) LIGHT SWITCH. S.E.D.

LEGEND - ACCESSIBLE HEIGHTS CLEARANCES

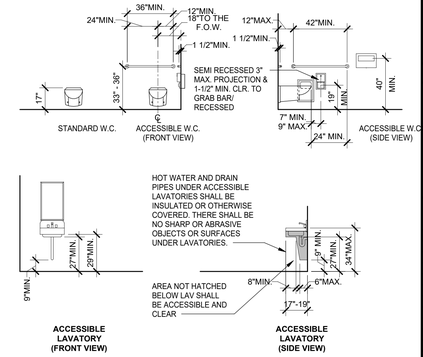
FOR ADDITIONAL ACCESS REQUIREMENTS, SEE 1G-900



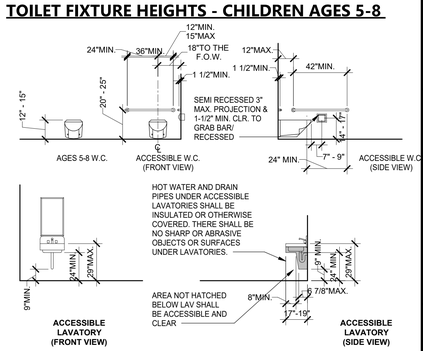
MOUNTING HEIGHTS



TOILET FIXTURE HEIGHTS - ADULT



TOILET FIXTURE HEIGHTS - CHILDREN AGES 5-8



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SHEET TITLE

RESTROOM PLAN ENLARGEMENTS

INC.1

DRAWN BY: DV JOB NUMBER: 23118.01

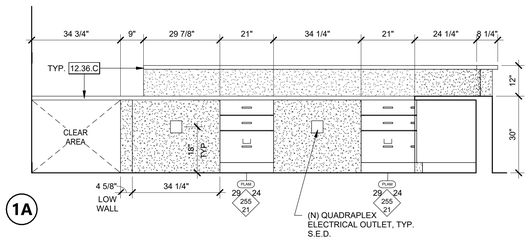
SHEET NO.

1A-502

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 4:01:44 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDIUSD_RIO VISTA ES MOD_INC01_A22.rvt



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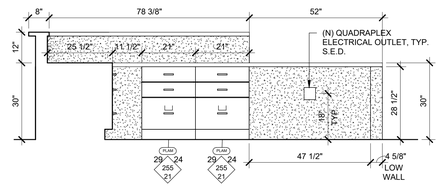
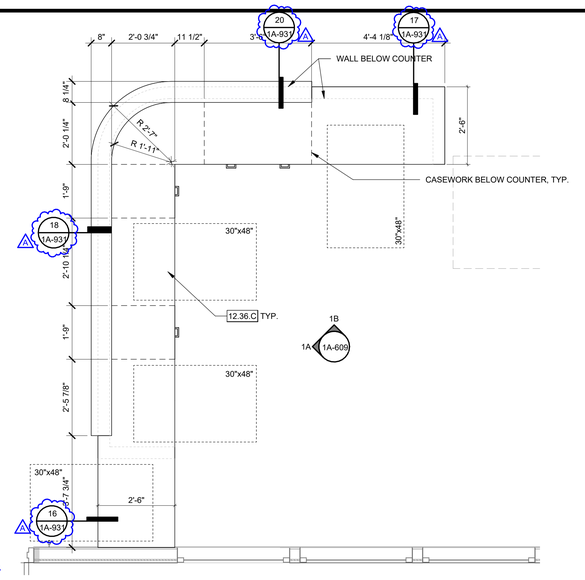


1B

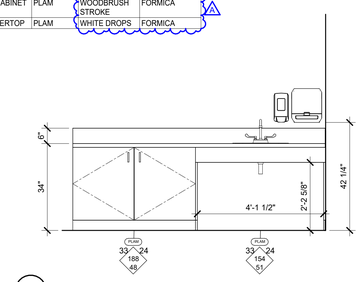
CASEWORK FINISHES - RECEPTION			
TYPE	FINISH	COLOR	REMARKS
BASE CABINET	PLAM	WOODBRUSH STROKE	FORMICA
COUNTERTOP	PLAM	WHITE DROPS	FORMICA

BLDG 5 - RECEPTION CASEWORK ELEVATIONS 1/2" = 1'-0" **2**



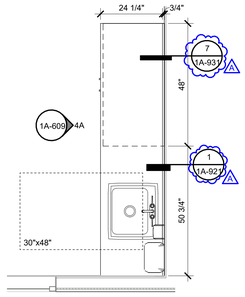
BLDG 5 RECEPTION - ENLARGED CASEWORK PLAN 1/2" = 1'-0" **1**

CASEWORK FINISHES - ROOM SINK			
TYPE	FINISH	COLOR	REMARKS
BASE CABINET	PLAM	WOODBRUSH STROKE	FORMICA
COUNTERTOP	PLAM	WHITE DROPS	FORMICA



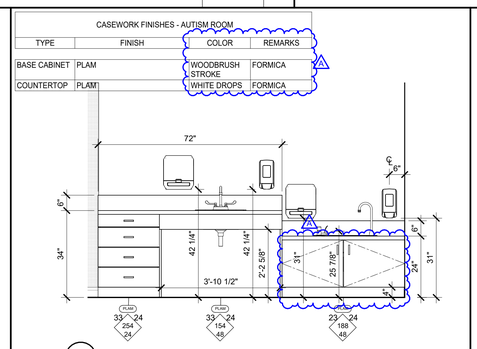
4A

TYPICAL - ROOM SINK CASEWORK ELEVATION 1/2" = 1'-0" **7**



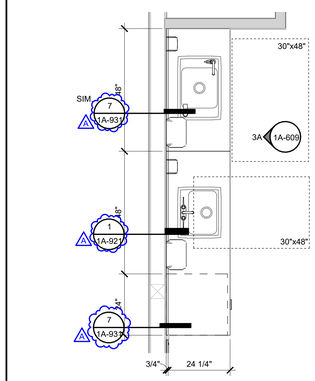
TYP. RM SINK CASEWORK PLAN 1/2" = 1'-0" **6**

CASEWORK FINISHES - AUTISM ROOM			
TYPE	FINISH	COLOR	REMARKS
BASE CABINET	PLAM	WOODBRUSH STROKE	FORMICA
COUNTERTOP	PLAM	WHITE DROPS	FORMICA



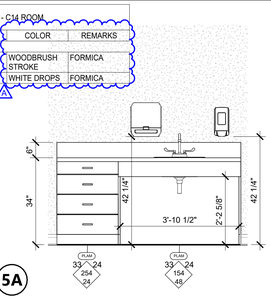
3A

BLDG 2 - RM C12 CASEWORK ELEVATION 1/2" = 1'-0" **5**



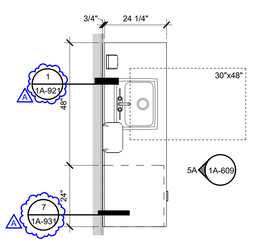
BLDG 2 - RM C12 CASEWORK PLAN 1/2" = 1'-0" **4**

CASEWORK FINISHES - C14 ROOM			
TYPE	FINISH	COLOR	REMARKS
BASE CABINET	PLAM	WOODBRUSH STROKE	FORMICA
COUNTERTOP	PLAM	WHITE DROPS	FORMICA



5A

BLDG 2 - RM C14 CASEWORK ELEVATION 1/2" = 1'-0" **9**



BLDG 2 - CLASSROOM C14 CASEWORK PLAN 1/2" = 1'-0" **8**

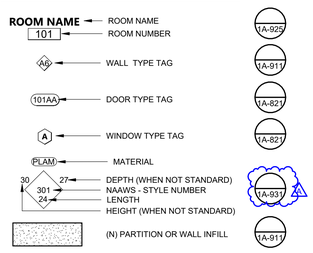
KEYNOTES

12.36.C (N) COUNTER AT SECRETARY. PLAM BASE AND QUARTZ COUNTERTOP.

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" FROM FF

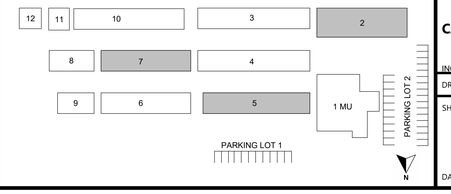
INTERIOR ELEVATION LEGEND



CLEARANCE TO FINISH SURFACE

FIXTURE	ADULT	FOR CHILDREN'S USE AGES 5-8	FOR CHILDREN'S USE AGES 9-12	CBC TABLE 11B-604.9
DISPENSER OR MIRROR HEIGHT	40" MAX.	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.	31" MAX.	31" 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.	44" MAX.	44" MAX.	
URINAL LIP HEIGHT	17" MAX.	17" MAX.	17" MAX.	

KEY PLAN



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SHEET TITLE

CASEWORK ELEVATIONS

INC.1

DRAWN BY: Author JOB NUMBER: 23118.01

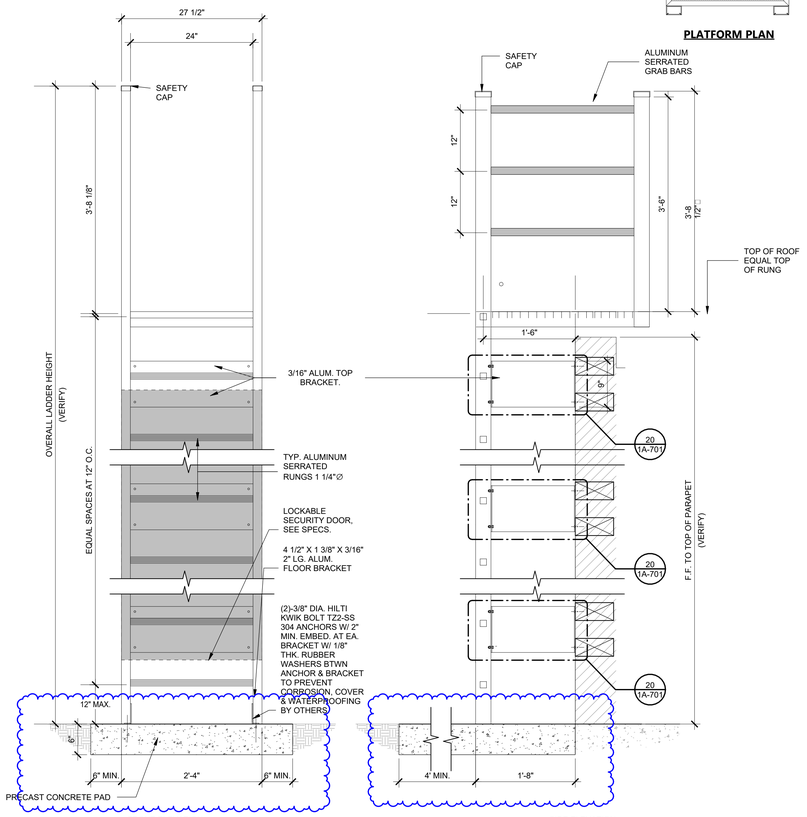
SHEET NO.

1A-609

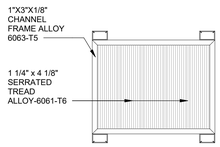
DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

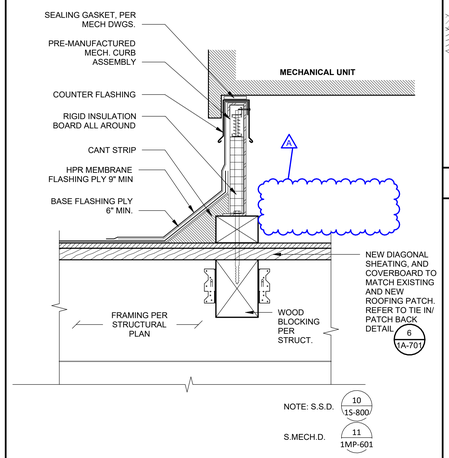
DATE PLOTTED: 4/16/2024 4:02:48 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



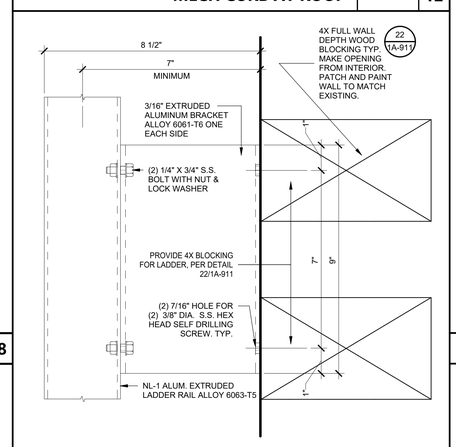
PLATFORM PLAN



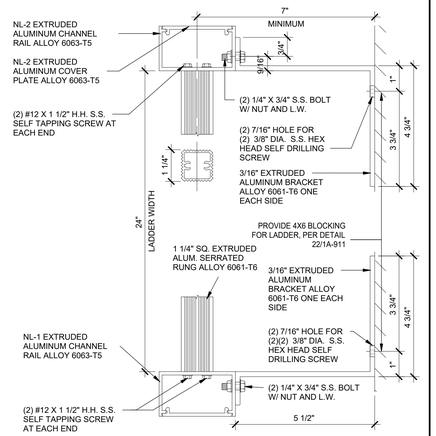
EXTERIOR ROOF ACCESS LADDER W/ PLATFORM | N.T.S. | 18



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

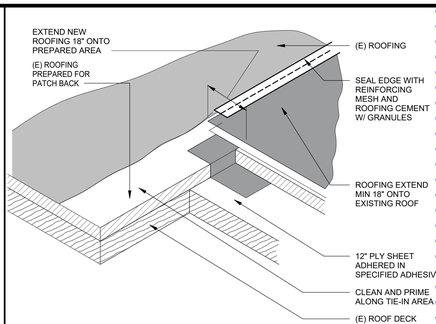


OFF FLOOR/ TOP BRACKET SIDE VIEW

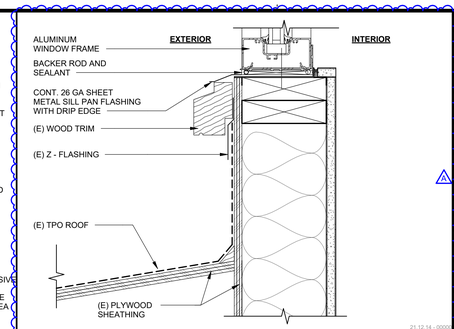


OFF FLOOR/ TOP BRACKET TOP VIEW

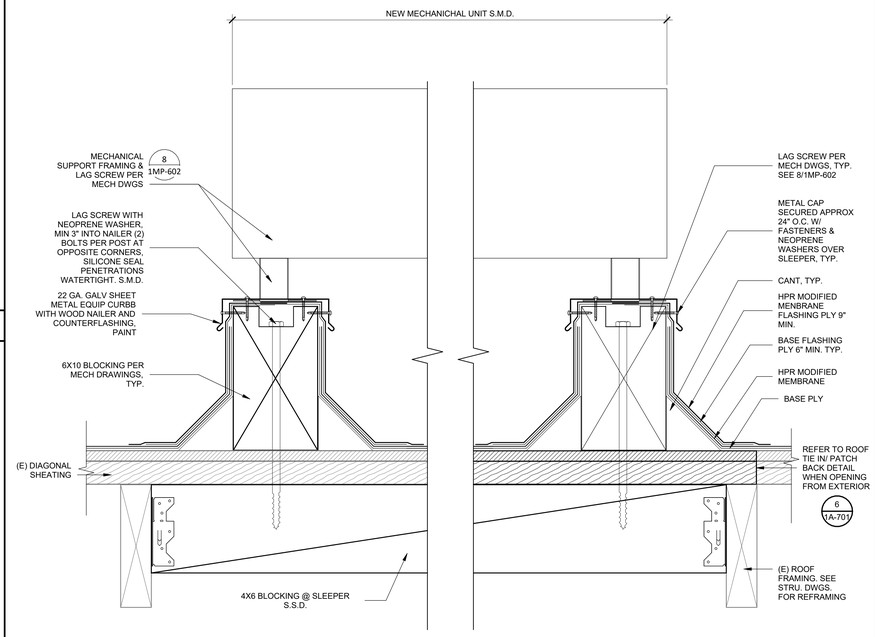
OFF FLOOR/ TOP BRACKET | N.T.S. | 15



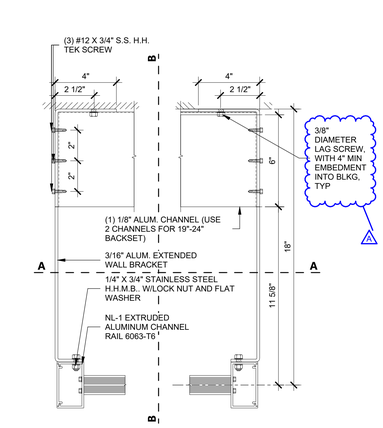
TIE IN / PATCH BACK | NTS | 6



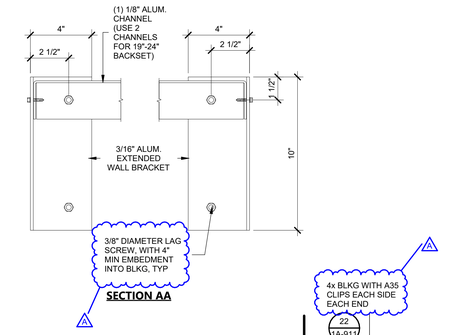
CLERESTORY @ ROOF | 3" = 1'-0" | 1



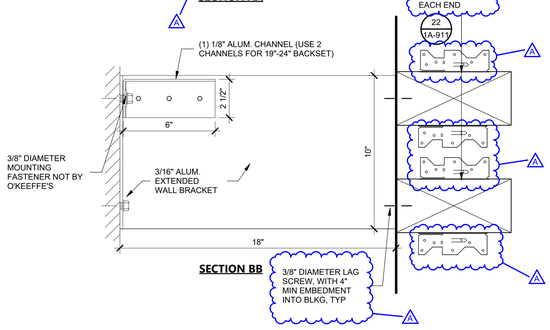
ROOF MECHANICAL EQUIPMENT SUPPORT | 3" = 1'-0" | 3



EXTENDED WALL BRACKET

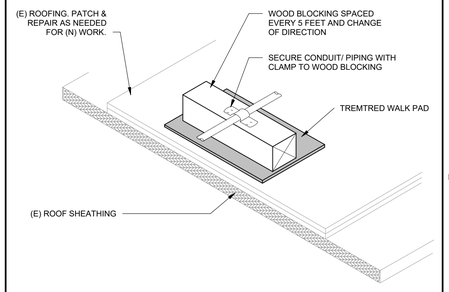


SECTION AA

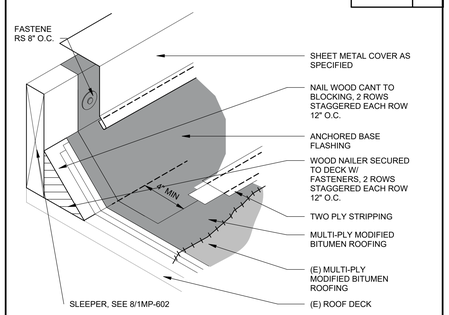


SECTION BB

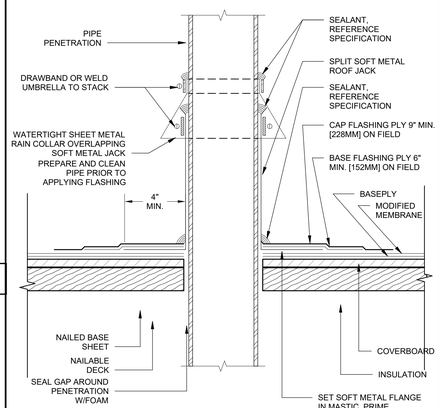
EXTENDED BRACKET | 3" = 1'-0" | 20



CONDUIT OR PIPING SUPPORT | NTS | 9



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 1MP-602

ROOF PENETRATION | N.T.S. | 5

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SHEET TITLE
EXTERIOR DETAILS

INC.1

DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.
1A-701

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

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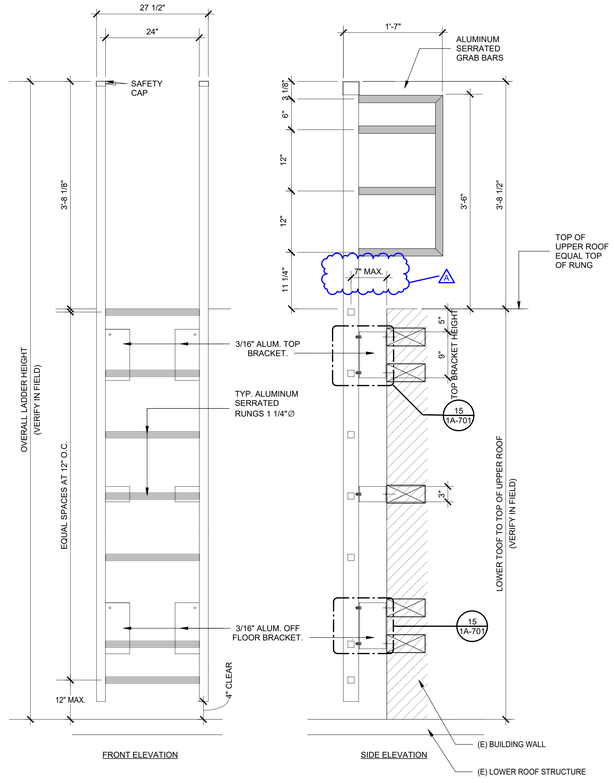

EXTERIOR UPPER ROOF ACCESS LADDER FIXED | N.T.S. | **1**

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	04-01-2024	BID SET
A	04-15-2024	ADDENDUM

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

PROJECT OWNER & TITLE

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

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

EXTERIOR DETAILS

INC.1

DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.

1A-702

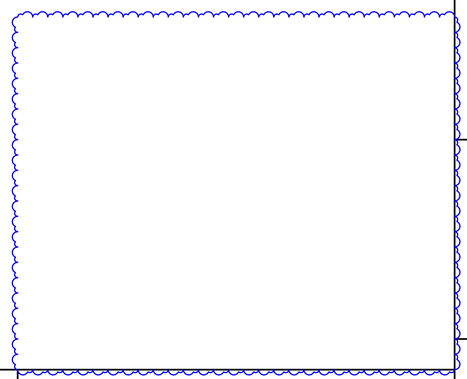
DATE: APRIL 12, 2024

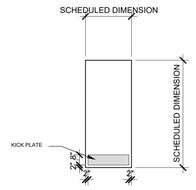
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 4:02:52 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt

DOOR SCHEDULE - INC. 01

MARK	ROOM	FIRE RATING	SIZE			DOOR			FRAME			DETAILS			PANIC HARDWARE	HARDWARE GROUP	COMMENTS
			WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL			
Building 1																	
MU1.A	MULTI-USE ROOM	20MIN.	3'-4"	7'-0"	1 3/4"	A	FRP		A (E)	HM	P	6/1A-821	7/1A-821	2/1A-821	P.H.	03	EXIT ONLY. NO DOOR HADWARE OUTSIDE
MU1.B	MULTI-USE ROOM	20MIN.	4'-10"	7'-0"	1 3/4"	A	FRP		BB (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	P.H.	03	
MU1.C	MULTI-USE ROOM	NR	3'-0"	7'-0"	1 3/4"	A	FRP		B (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	P.H.	03	
MU1.D	MULTI-USE ROOM	NR	3'-0"	7'-0"	1 3/4"	A	FRP		B (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	P.H.	03	
MU2.A	PLATFORM	20MIN.	3'-0"	7'-0"	1 3/4"	C	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	P.H.	02	
MU7	MECH	NR	3'-0"	7'-0"	1 3/4"	B	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	07	
MU8	LOCKER ROOM	NR	2'-8"	7'-0"	1 3/4"	A	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	08	
MU9	JAN	NR	2'-8"	7'-0"	1 3/4"	A	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	08	
MU12	KITCHEN	NR	3'-0"	7'-0"	1 3/4"	B	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	05	
MU13	GARBAGE	NR	3'-0"	7'-0"	1 3/4"	B	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	06	
MU15	STAFF DINING	NR	3'-0"	7'-0"	1 3/4"	B	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	04	
Building 2																	
12A.A	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	FRP	P	A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	03	
12A.B	CLASSROOM	NR	3'-0"	6'-8"	1 3/4"	B	WD		A	WD		13/1A-821	15/1A-821	2/1A-821		03	
12B.A	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	WD	P	A	WD	P	13/1A-821	15/1A-821	2/1A-821	-	11	
12B.B	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	WD	P	A	WD	P	13/1A-821	15/1A-821	2/1A-821	-	11	
12C.A	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	FRP	FF	A	HM	P	13/1A-821	15/1A-821	2/1A-821	P.H.	03	
12C.B	CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C	FRP	FF	A	HM	P	13/1A-821	15/1A-821	2/1A-821	P.H.	03	
12C.C	CLASSROOM	NR	3'-0"	6'-8"	1 3/4"	B	WD		A	WD		13/1A-821	15/1A-821	2/1A-821		12	
203A	STORAGE	NR	3'-0"	6'-8"	1 3/4"	A	WD	P	A	WD	P	13/1A-821	15/1A-821	2/1A-821		12	
205	READING ROOM	NR	6'-0"	7'-0"	1 3/4"	AA	FRP	P	AA (E)	WD	P	13/1A-821	15/1A-821	2/1A-821	P.H.	01	
206	ENTRY HALL	NR	6'-0"	7'-0"	1 3/4"	AA	FRP	P	AA (E)	WD	P	13/1A-821	15/1A-821	2/1A-821	P.H.	01	
216	RR	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	A	WD	P	13/1A-821	15/1A-821	2/1A-821		13	
217	RR	NR	3'-0"	7'-0"	1 3/4"	B	FRP	P	A	WD	P	13/1A-821	15/1A-821	2/1A-821		13	
218	STORAGE	NR	3'-0"	7'-0"	1 3/4"	A	WD	P		WD							
Building 5																	
501	TRANS VAULT	NR	4'-0"	6'-6"	1 3/4"	A	FRP	FF	A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	09	
502	PANEL	NR	3'-0"	7'-0"	1 3/4"	B	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	09	LOUVERS
503	TRAFFIC	NR	3'-0"	7'-0"	1 3/4"	B	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	09	LOUVERS
504	HALL	NR	3'-4"	7'-0"	1 3/4"	C	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	03	
505	OFFICE	NR	3'-0"	7'-0"	1 3/4"	A	WD		A	WD	P	13/1A-821	15/1A-821	2/1A-821		15	
506	UNISEX STUDENT TOILET	NR	3'-0"	7'-0"	1 3/4"	B	WD		A	WD	P	13/1A-821	15/1A-821	2/1A-821		14	
510	MDF CLOSET	NR	3'-0"	7'-0"	1 3/4"	A	WD		A	WD	P	13/1A-821	15/1A-821	2/1A-821		16	
513	WAITING	NR	3'-0"	7'-0"	1 3/4"	C	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	P.H.	03	
514	RECEPTION OFFICE	NR	3'-0"	7'-0"	1 3/4"	C	FRP	FF	A	WD	P	6/1A-821	7/1A-821	2/1A-821	-	03	
516	UNISEX STAFF RR	NR	3'-0"	7'-0"	1 3/4"	B	WD		A	WD	P	6/1A-821	7/1A-821	2/1A-821		14	
525	UNISEX STAFF RR	NR	3'-0"	7'-0"	1 3/4"	B	FRP	FF	A	HM	P	13/1A-821	15/1A-821	2/1A-821	-	10	
A6	TEACHER WORKROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	04	
A7	TEACHER TRAINING CENTER	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	-	04	
Building 7																	
700.A	KINDER CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP		A (E)	HM	P	6/1A-821	7/1A-821	2/1A-821	P.H.	03	
700.B	KINDER CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP	FF	A	HM		13/1A-821	15/1A-821	2/1A-821	P.H.	03	
701	KINDER CLASSROOM	NR	3'-4"	7'-0"	1 3/4"	C			A (E)	WD					P.H.		
701.A	KINDER CLASSROOM	NR	3'-0"	7'-0"	1 3/4"	C		P	B	WD					-		
702	RR	NR	3'-0"	7'-0"	1 3/4"	B	WD	P	A	WD	P	13/1A-821	15/1A-821	2/1A-821	-	17	
703	BREAK OUT ROOM	NR	3'-4"	7'-0"	1 3/4"	C	FRP		A (E)	WD	P	6/1A-821	7/1A-821	2/1A-821	P.H.	04	
704	BREAK OUT ROOM	NR	3'-0"	7'-0"	1 3/4"	A	WD	P	A	WD	P	13/1A-821	15/1A-821	2/1A-821		19	
705	STUDENT RR	NR	3'-0"	7'-0"	1 3/4"	B	WD	P	A	WD	P	13/1A-821	15/1A-821	2/1A-821		13	
706	BREAK OUT ROOM	NR	3'-0"	7'-0"	1 3/4"	A	WD		A	WD	P	13/1A-821	15/1A-821	2/1A-821		18	
707	CORRIDOR	NR	3'-4"	7'-0"	1 3/4"	C	FRP	P	A (E)	WD	P	13/1A-821	15/1A-821	2/1A-821	-	04	
708	CORRIDOR	NR	3'-0"	7'-0"	1 3/4"	B	WD	P	A	WD	P	13/1A-821	15/1A-821	2/1A-821		04	





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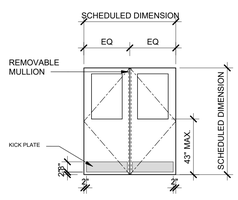

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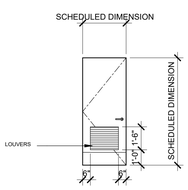

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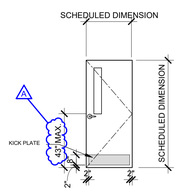

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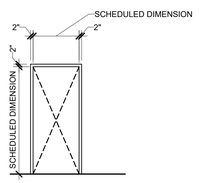

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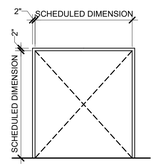

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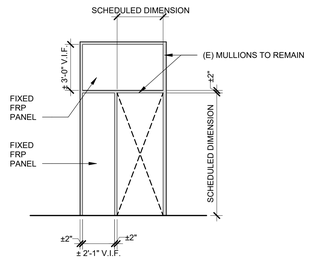

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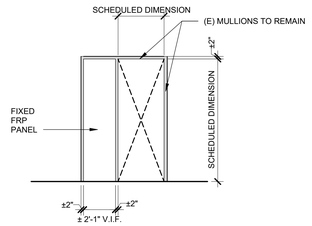

DOOR FRAME 'BB'

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 WOODEN FRAMES.
   IF NEW, STEELCRAFT "L" SERIES 16 GA HONEYCOMB CORE OR "S" OR "A" SERIES 16 GA TUBULAR FOR FULL GLASS, GALVANIZED, WITH GALVANIZED 14 GA FRAMES. USE MINIMUM 6" WIDE STILE ON ALL STILE & RAIL TYPE DOORS TO ACCOMMODATE EXIT DEVICES.
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 HOLLOW METAL DOORS PER THE DETAILS.
12. PROVIDE ACCESS CONTROL WIRING AND DOOR SWITCH WIRING PER HARDWARE SCHEDULE.
13. PROVIDE DOOR SWITCH WIRING PER HARDWARE SCHEDULE.
14. SEE SHEETS 1A-252 AND 1A-925 FOR SIGNAGE PLAN AND SIGNAGE DETAILS.
15. INTERIOR SWINGING, MANUALLY OPERATED EGRESS DOORS (OTHER THAN A FIRE DOOR): NOT TO EXCEED 5-POUNDS.
16. SWINGING, SLIDING, OR FOLDING DOORS, AND FIRE-RATED DOORS: NOT TO EXCEED 30 POUNDS TO SET THE DOOR IN MOTION, AND SHALL MOVE TO THE FULL-OPEN POSITION WITH NOT MORE THAN 15 POUNDS OF FORCE.
17. OPERABLE PARTS OF DOOR AND GATE HARWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND. WHERE SLIDING DOORS ARE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE FULLY EXPOSED AND USABLE FROM BOTH SIDES. CBC 11B-404.2.7
18. DOOR AND GATE CLOSERS SHALL BE ADJUSTABLE SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. CVC 11B-404.2.1
19. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT IN THE OPEN POSITION OF 70 DEGREES, THE DOOR AND GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.11B-404.2.8.2
20. ALL HARDWARE SHALL MEET THE REQUIREMENTS 11B-309.4
21. THRESHOLDS SHALL COMPLY WITH 11B-404.2.5.
22. FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALL PER DSA POLICY 99-08

LEGEND - DOOR MATERIALS

DOOR CONSTRUCTION AND MATERIAL:
HM - HOLLOW METAL
AL - ALUMINUM
WD - WOOD
FRP - FIBERGLASS-REINFORCED POLYMER

DOOR FACING AND FINISH:
SP - STEEL, PAINTED
K - KYNAR FINISH ON ALUMINUM
WS - WOOD VENEER, STAINED

FRAME MATERIAL:
HM - HOLLOW METAL, PAINTED
AL - ALUMINUM
WD - WOOD (EXISTING)

FRAME FINISH:
P - PAINTED STEEL
K - KYNAR FINISH ON ALUMINUM

FRAME TYPES:
A, B

GLASS:
ALL GLASS IS TEMPERED (SG - SAFETY GLAZING)

HARDWARE:
P.H. - PANIC HARDWARE

LEGEND - DOOR GLAZING NOTES

1. ALL GLAZING SHALL BE TEMPERED 1/4" CLEAR GLASS UNLESS DOOR IS FIRE-RATED. THEN SAFETY GLAZING SHALL MEET CURRENT FEDERAL STANDARDS WHERE GLAZING OCCURS IN RATED DOOR ASSEMBLY. (WIRE GLASS IS NOT ACCEPTABLE)
2. RATED GLAZING NOTES:
   A. FIRE-RESISTANCE-RATED GLAZING SHALL BE PERMITTED IN FIRE DOOR AND FIRE WINDOW ASSEMBLIES WHERE TESTED AND INSTALLED IN ACCORDANCE WITH THEIR LISTINGS AND WHERE IN COMPLIANCE WITH THE REQUIREMENTS OF CBC SECTION 716.3.
   B. CBC 716.3 MARKING FIRE-RATED GLAZING ASSEMBLIES: FIRE-RATED ASSEMBLIES SHALL BE MARKED IN ACCORDANCE WITH TABLES 716.3, 716.5, AND 716.6.
   C. CBC 716.3.1 FIRE-RATED GLAZING IDENTIFICATION: FOR FIRE-RATED GLAZING, THE LABEL SHALL BEAR THE IDENTIFICATION REQUIRED IN TABLES 716.3 AND 716.5. "D" INDICATES THAT THE GLAZING IS PERMITTED TO BE USED IN FIRE DOOR ASSEMBLIES AND THAT THE GLAZING MEETS THE FIRE PROTECTION REQUIREMENTS OF NFPA 252. "H" SHALL INDICATE THAT THE GLAZING MEETS THE HOSE STREAM REQUIREMENTS OF NFPA 252. "T" SHALL INDICATE THAT THE GLAZING MEETS THE TEMPERATURE REQUIREMENTS OF SECTION 716.5.5.1. THE PLACEHOLDER "XXX" REPRESENTS THE FIRE-RATING PERIOD IN MINUTES.
   D. CBC 716.3.2 FIRE-PROTECTION-RATED GLAZING IDENTIFICATION: FOR FIRE-PROTECTION-RATED GLAZING, THE LABEL SHALL BEAR THE FOLLOWING IDENTIFICATION REQUIRED IN TABLES 7.J.6.3 AND 716.6. "OH-XXX". "OB" INDICATES THAT THE GLAZING MEETS BOTH THE FIRE PROTECTION AND THE HOSE-STREAM REQUIREMENTS OF NFPA 257 OR UL 9 AND IS PERMITTED RO BE USED IN FIRE WINDOW OPENINGS. THE PLACEHOLDER "XXX" REPRESENTS THE FIRE-RATING PERIOD IN MINUTES.
   E. FIRE BARRIER: 3/4 HOUR GLAZING, MAX SIZE TESTED, MARKED D-H
   F. NFPA 257 OR CL 9 MEETS FIRE WINDOW ASSEMBLY CRITERIA INCLUDING THE HOSE STREAM TEST
   G. NFPA 252 OR UL 10B I OR UL 10C D = MEETS FIRE DOOR ASSEMBLY CRITERIA. H = MEETS FIRE DOOR ASSEMBLY HOSE STREAM TEST
   H. RATED GLAZING SHALL BE FIRELITE NT

ACCESSIBLE DOORS, GATES AND HARDWARE CBC 11B-404

DH1) PROVIDE ACCESSIBLE DOOR OR GATE LEAF WIDTH, MINIMUM 36" WIDE AND CAPABLE OF MAXIMUM 5LB. FORCE OPERATION PER 11B-404.2.9. (NOTE THAT THE MAXIMUM ALLOWED WIDTH FOR A SWINGING EGRESS DOOR OR GATE IS 48" NOMINAL PER CBC 1010.1.1.)

DH2) STOREROOM OR SIMILAR HARDWARE FUNCTION TYPES REQUIRE TWO-HAND OPERATION AND DO NOT COMPLY WITH 11B-404.2.7. (NOTE THAT ACCESSIBLE HARDWARE IS NOT REQUIRED TO MECHANICAL, ELECTRICAL OR SIMILAR ROOMS AS EXCEPTED IN 11B-203.5.)

DH3) PROVIDE CLASSROOM SECURITY HARDWARE. ROOMS WITH FIVE OR MORE OCCUPANTS IN KINDERGARTEN THROUGH TWELFTH-GRADE FACILITIES MUST BE LOCKABLE FROM THE INSIDE PER CBC 1010.1.11.) CLARIFY ON DOOR SCHEDULE WHICH DOORS ARE REQUIRED TO MEET THIS REQUIREMENT.

DH4) PROVIDE HARDWARE WITH 5LB. MAXIMUM UNLATCHING FORCE PER 11B-404.2.7 AND 11B-309.4. THIS REQUIREMENT APPLIES TO ALL DOOR HARDWARE, INCLUDING EXIT DEVICES.

DH5) UNLATCHING OF ANY DOOR SHALL NOT REQUIRE MORE THAN ONE OPERATION. SEE CBC 1010.1.9.5 FOR EXCEPTIONS.

DH6) PROVIDE ACCESSIBLE THRESHOLD OR THRESHOLD CONDITION PER 11B-404.2.5.

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

DH8) IN-DOOR GLAZING AND VISION LIGHTS SHALL HAVE BOTTOM EDGE MAXIMUM 43" ABOVE THE FINISH FLOOR OR GROUND SURFACE PER 11B-404.2.11

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

AGENCY APPROVAL DSA# 01-121440

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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION
	04-01-2024	BID SET
A	04-15-2024	ADDENDUM

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PROJECT OWNER & TITLE

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

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

SHEET TITLE

DOOR SCHEDULE

INC.1

DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.

1A-801

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt
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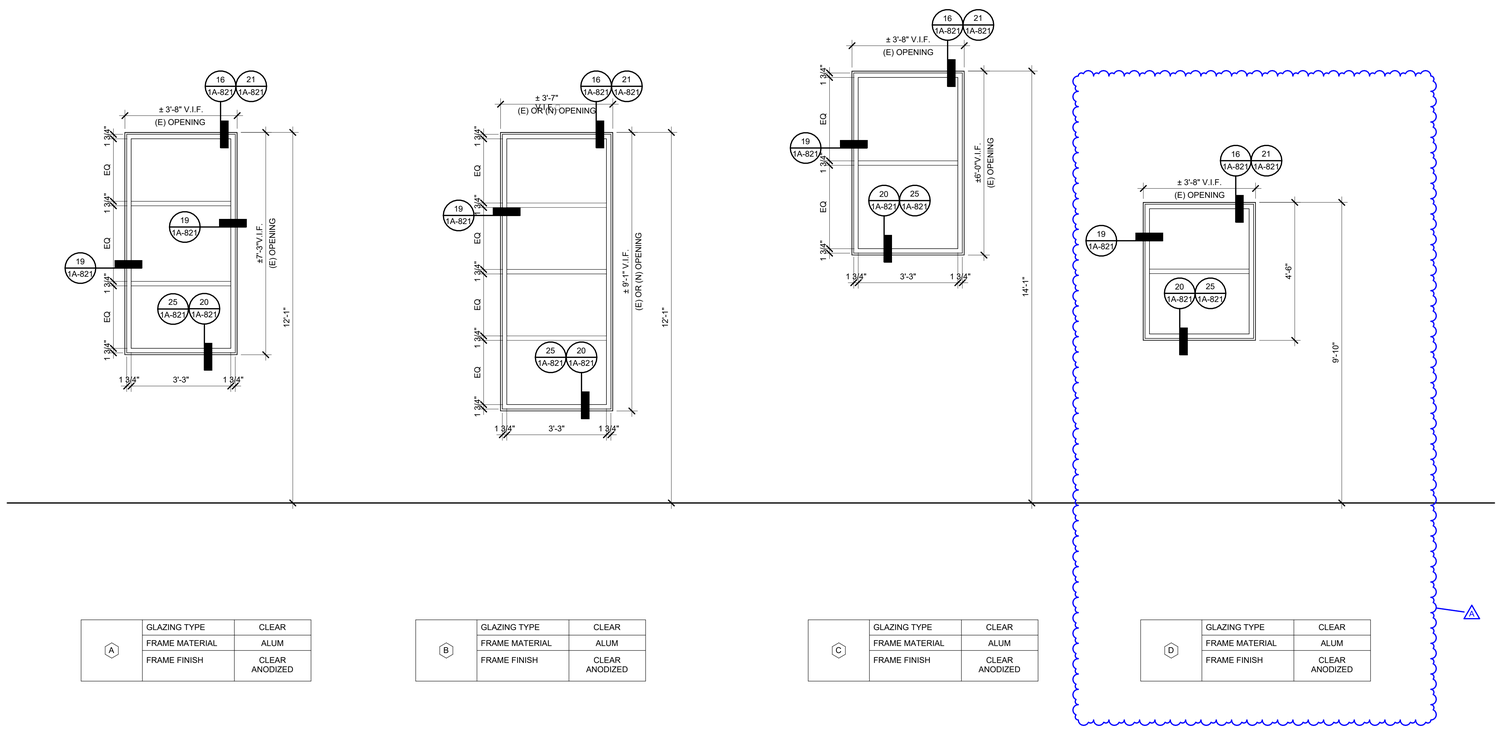

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	FRAME MATERIAL	ALUM
	FRAME FINISH	CLEAR ANODIZED

B	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUM
	FRAME FINISH	CLEAR ANODIZED

C	GLAZING TYPE	CLEAR
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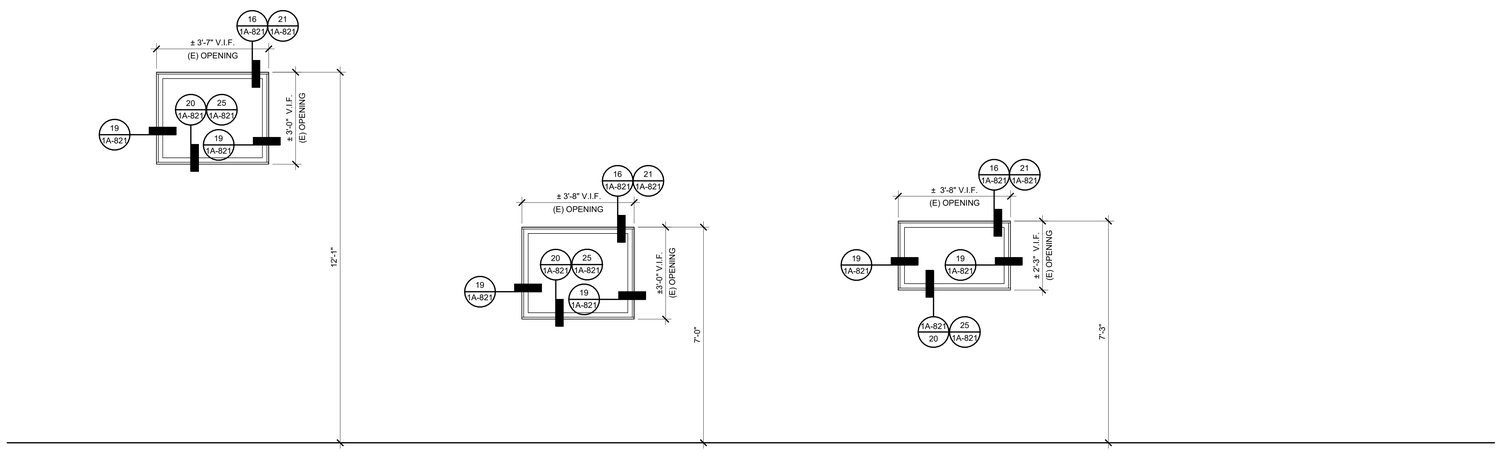
D	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUM
	FRAME FINISH	CLEAR ANODIZED



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	FRAME MATERIAL	ALUM
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C2	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUM
	FRAME FINISH	CLEAR ANODIZED

C3	GLAZING TYPE	CLEAR
	FRAME MATERIAL	ALUM
	FRAME FINISH	CLEAR ANODIZED

WINDOW LEGEND

KEYNOTES

WINDOWS GENERAL NOTES

1. EXTERIOR STOREFRONT BASIS OF DESIGN ALL WEATHER SERIES 5000.
2. ALL INTERIOR WINDOWS BASIS OF DESIGN ALL WEATHER SERIES 5000.
3. ALL GLASS TO BE TEMPERED PER SPECIFICATIONS.
4. ALL GLASS TO BE INSULATING, PER SPECIFICATIONS.
5. ALL EXISTING WIRE GLASS TO BE REPLACED TO TEMPERED SAFETY GLASS.

AGENCY APPROVAL DSA# 01-121440

196

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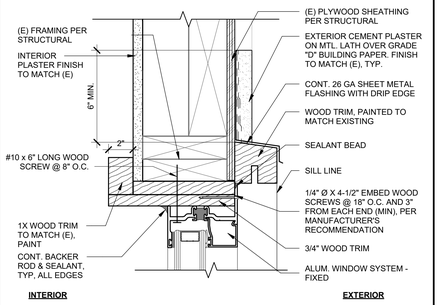
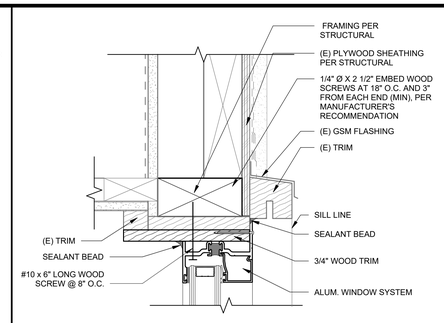
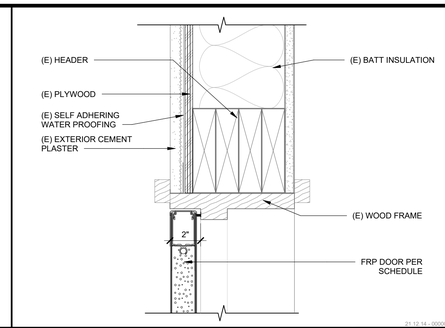


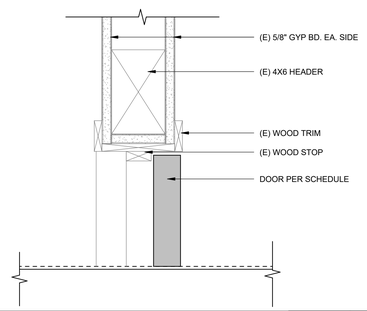
FIXED WINDOW HEAD (ALTERNATE) 3" = 1'-0" **21**



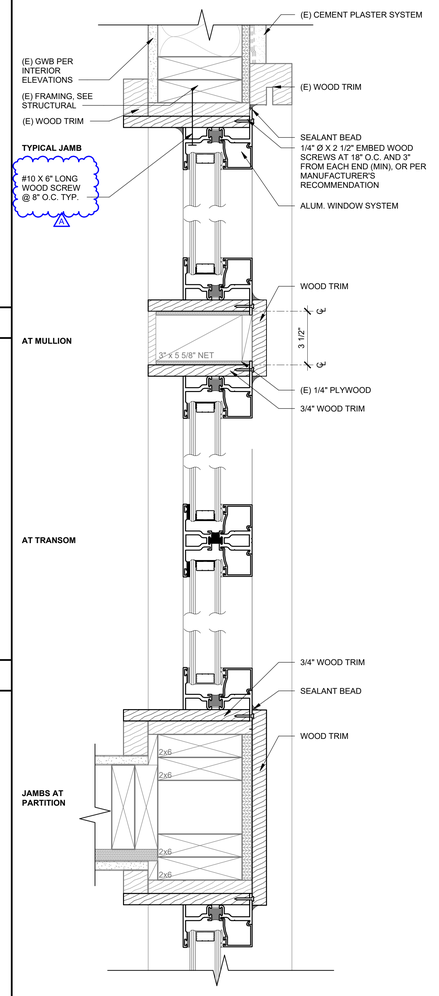
WINDOW (ALTERNATE) - HEAD 3" = 1'-0" **16**



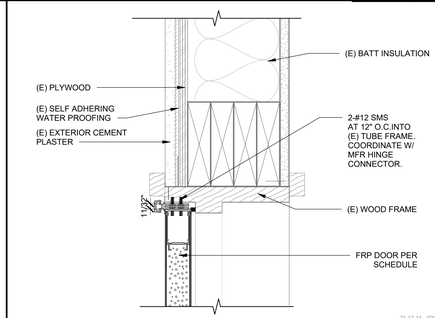
EXT. DOOR HEAD - (E) WD FRAME 3" = 1'-0" **6**



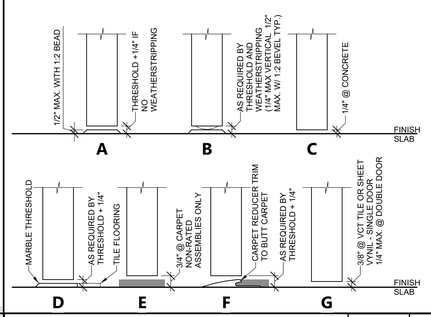
INT WD. DOOR WITH EXISTING FRAME 3" = 1'-0" **1**



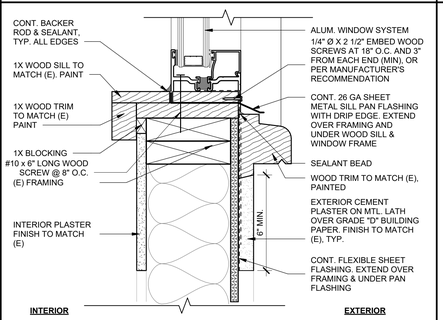
WINDOW (ALTERNATE) - JAMB 3" = 1'-0" **19**



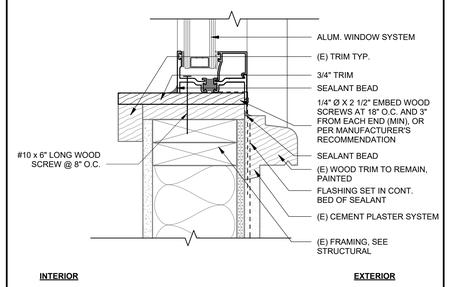
EXT. DOOR JAMB - (E) WD FRAME 3" = 1'-0" **7**



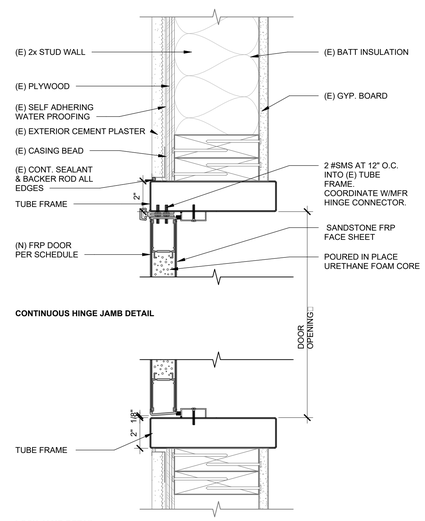
DOOR UNDERCUT CRITERIA 3" = 1'-0" **2**



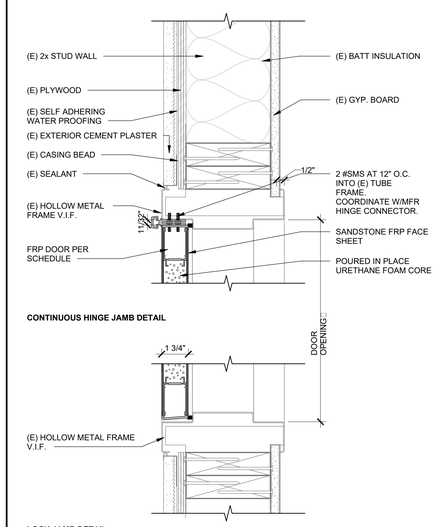
WINDOW SILL (ALTERNATE) 3" = 1'-0" **25**



WINDOW SILL 3" = 1'-0" **20**



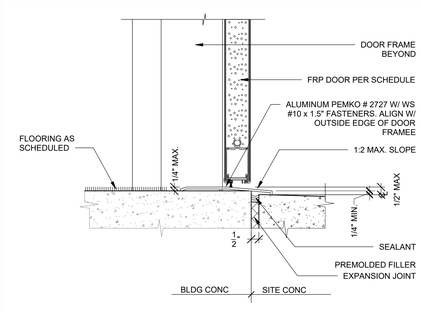
FRP HEAD DETAIL - HM FRAME 3" = 1'-0" **13**



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**



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

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DOOR AND WINDOW DETAILS

INC.1

DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.

1A-821

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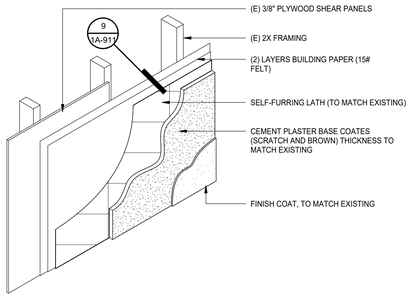
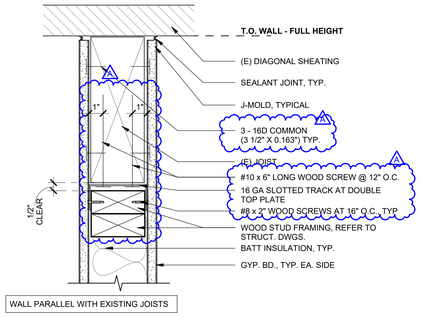


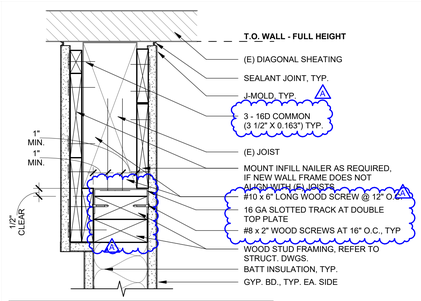
21.12.14 - 00000

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



WALL PARALLEL WITH EXISTING JOISTS

NBW @ ROOF DECK OPT 1 | 3" = 1'-0" | 16

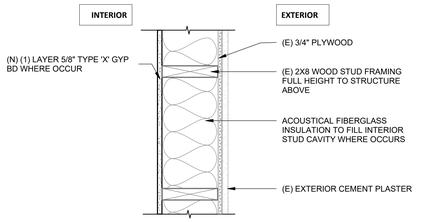


WALL PARALLEL WITH JOISTS (WHEN NOT ALIGNED W/ JOISTS)

NBW @ ROOF DECK OPT 2 | 3" = 1'-0" | 8

PLASTER DEMOLITION & REPAIR NOTES

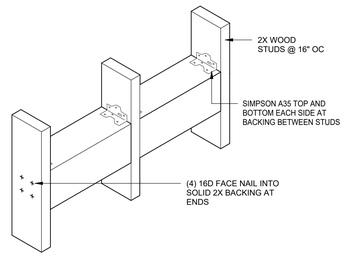
1. PLASTER DEMOLITION:
   A. STRAIGHT LINE OR SAW CUTS MUST BE MADE IRREGULAR BY CHIPPING AWAY THE EDGE.
   B. REMOVE ANY LOOSE MATERIAL AND EXPOSE APPROXIMATELY 2 INCHES OF THE EXISTING LATH AT ALL EDGES OF THE REPAIR AREA
2. INSTALLATION OF THE WATER RESISTIVE BARRIER (BUILDING PAPER)
   A MINIMUM 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.



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

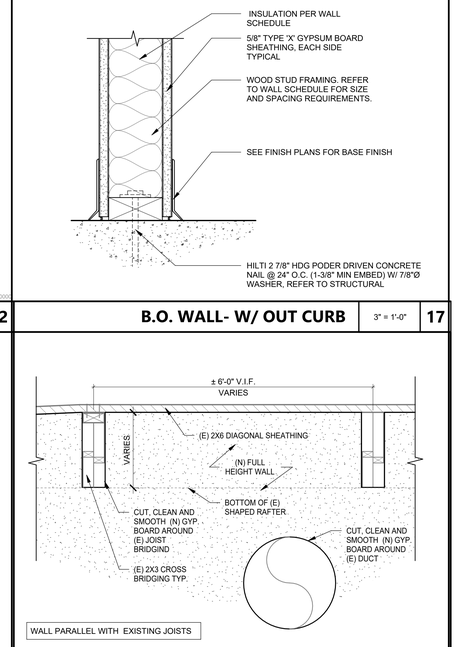
21.12.14 - 00000

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



21.12.14 - 00000

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



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

MIN HEADER @ LOAD BEARING WALLS

x4 WALLS	4x12	6' MAX SPAN
x6 WALLS	6x6	6' MAX SPAN

MIN HEADER @ NON-LOAD BEARING WALLS

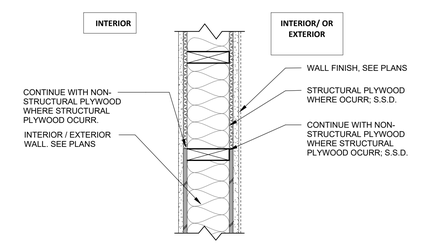
x4 WALLS	4x4	6' MAX SPAN
x6 WALLS	4x6 FLAT	6' MAX SPAN

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.

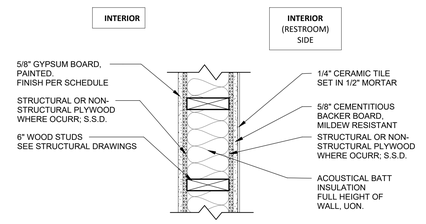
WOOD FRAMING NOTES

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.



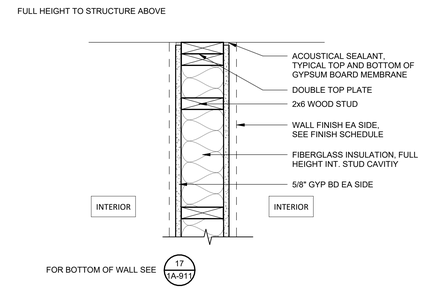
INFILL WALL TYPE
FOR BOTTOM OF INFIL WALL S.S.D.

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

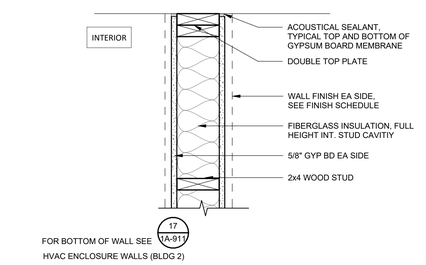


FOR BOTTOM OF WALL SEE 17 / 1A-911

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



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



WALL TYPE 5 | 1 1/2" = 1'-0" | 5

WALL PARALLEL WITH EXISTING JOISTS

CEMENT PLASTER @ EXTERIOR WALL | 1 1/2" = 1'-0" | 9

(N) WALL AT (E) JOIST BRIDGING | 3/4" = 1'-0" | 7

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SHEET TITLE

WALL TYPES & DETAILS

INC.1

DRAWN BY: MP JOB NUMBER: 23118.01

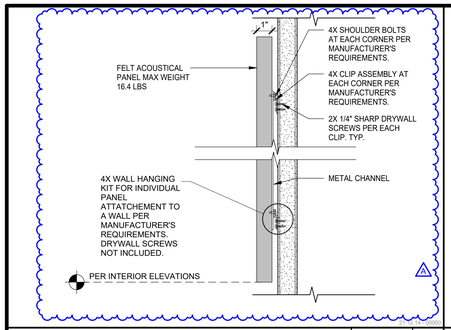
SHEET NO.

1A-911

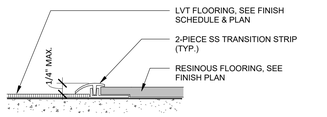
DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 4:03:03 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



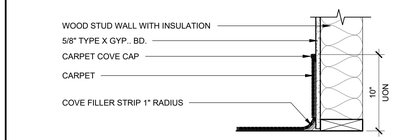
ACOUSTIC WALL PANELS | N.T.S. | 21



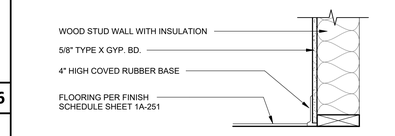
LVT FLOORING - EPOXY

NOTES:
1. INSTALL STRIP WITH FLANGE ON SIDE SHOWN.
2. PROVIDE STRIP AT ALL FLOOR MATERIAL TRANSITIONS.

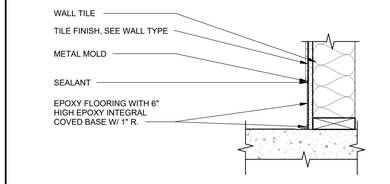
LVT TO EPOXY FLOORING TRANSITION | 12" = 1'-0" | 16



CARPET BASE — A



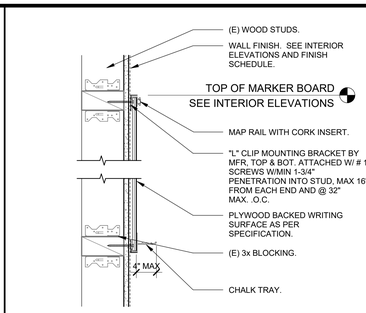
RUBBER BASE — B



EPOXY COVE BASE @ TOILET ROOMS — C

21.12.14 - 00000

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



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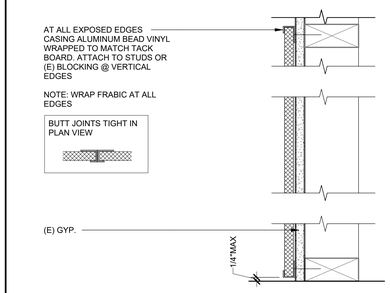
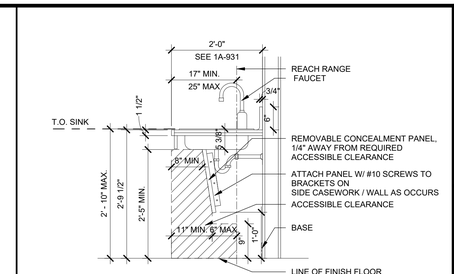
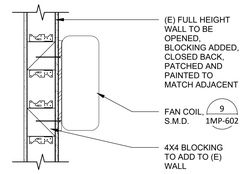
MARKER BOARD ANCHORAGE | 1 1/2" = 1'-0" | 6



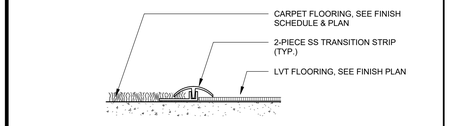
TACKBOARD | N.T.S. | 7



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



FAN COIL MOUNTING | 1" = 1'-0" | 2



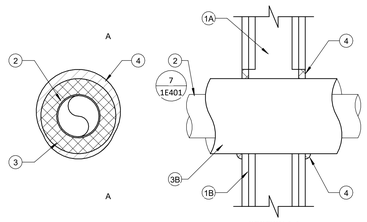
CARPET - LVT

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" | 23

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

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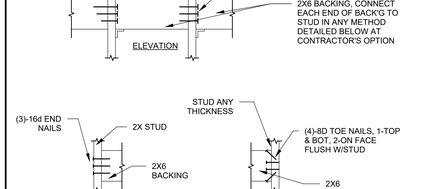
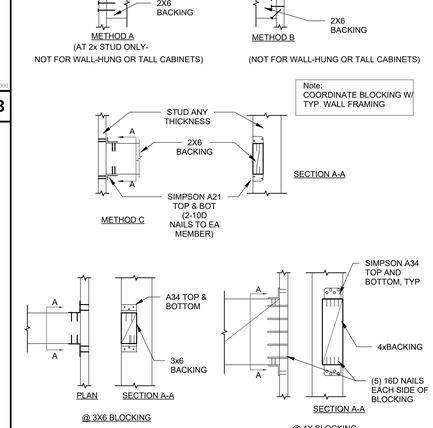
W-L-5257: PIPE @ WALL ASSEMBLY | 3" = 1'-0" | 18

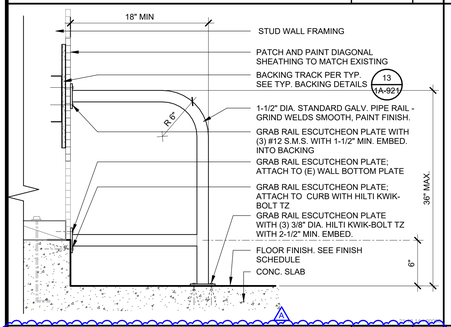




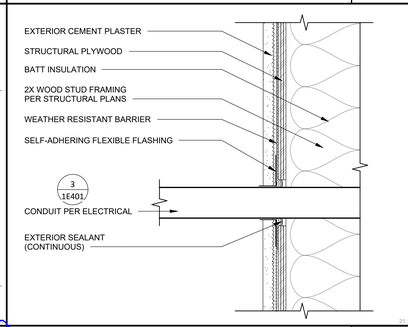
TYP. BACKING/BLOCKING - WOOD STUD | 1" = 1'-0" | 13

21.12.14 - 00000

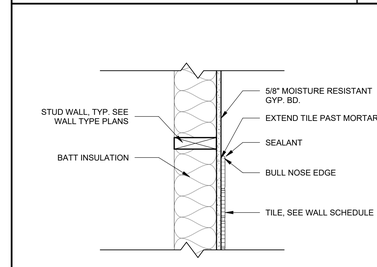
LAVATORY MOUNTING | 1" = 1'-0" | 3



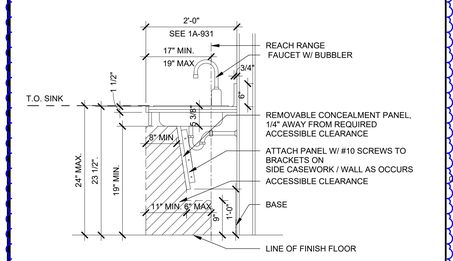
MPR DRINKING FOUNTAIN GRAB RAIL | 1 1/2" = 1'-0" | 8



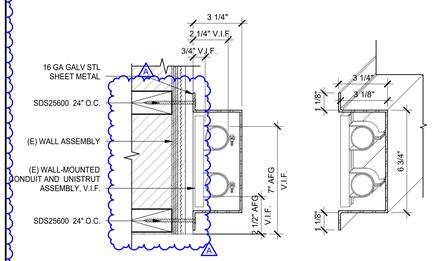
PENETRATION @ EXTERIOR WALL | 3" = 1'-0" | 19



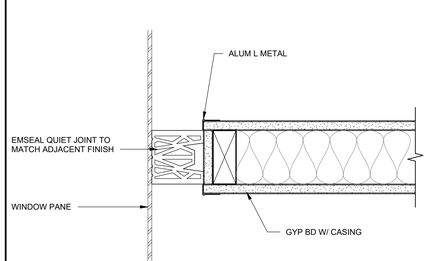
TILE TERMINATION | 1 1/2" = 1'-0" | 4



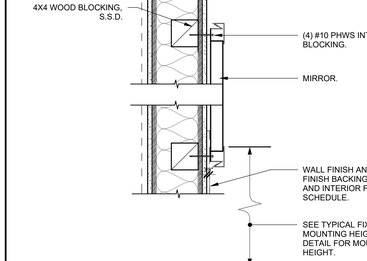
SINK TYPICAL MOUNTING - AGES 5-8 | 3/4" = 1'-0" | 25



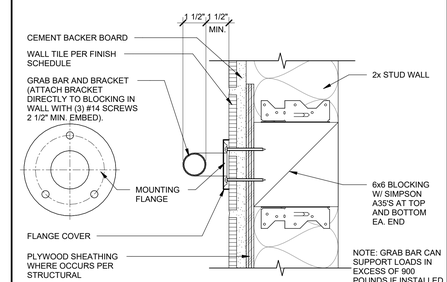
CONDUIT CHASE SECTION DTL | 3" = 1'-0" | 20



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



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



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

AGENCY APPROVAL DSA# 01-121440

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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION
1	04-01-2024	FOR PLAN CHECK ONLY, PER DSA IR_A-19
NO.	DATE	DESCRIPTION
A	04-15-2024	BID SET
		ADDENDUM

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

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

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

SHEET TITLE
INTERIOR DETAILS

INC.1

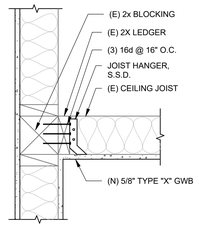
DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.
1A-921

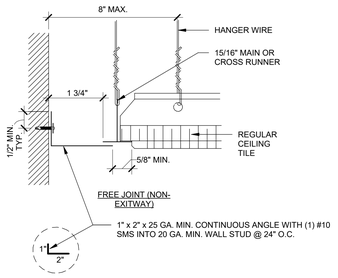
DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt
DATE PLOTTED: 4/16/2024 4:03:06 PM



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



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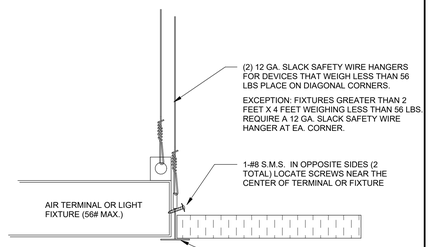
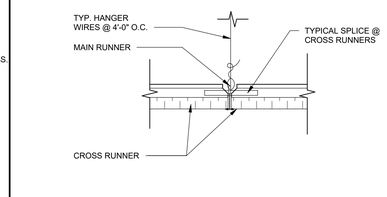
CEILING PERIMETER FOR TEGULAR TILE | 6" = 1'-0" | 16



21.12.14 - 00000

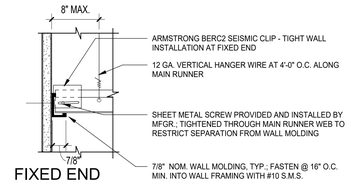
LIGHT FIXTURES/AIR TERMINAL SUPPORT | 6" = 1'-0" | 11

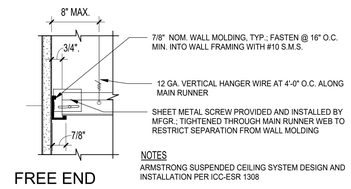


21.12.14 - 00000

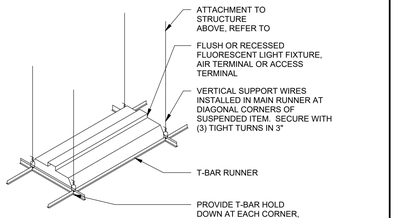
RUNNER SPLICE | 3" = 1'-0" | 6

FOR CEILING SYSTEM GENERAL NOTES SEE 1A-923



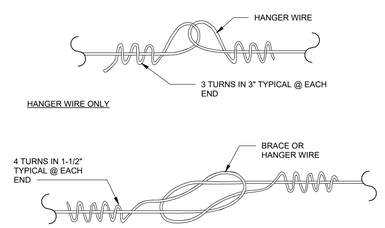


NOTES
ARMSTRONG SUSPENDED CEILING SYSTEM DESIGN AND INSTALLATION PER ICC-ESR 1308



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

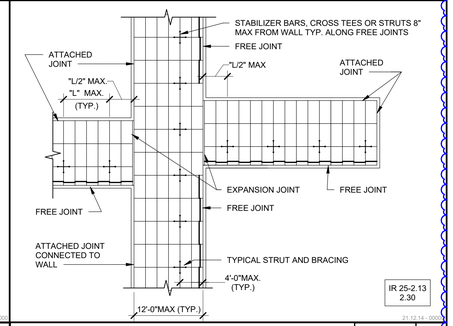


NOTES:
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

IR 25-2.13 6.10

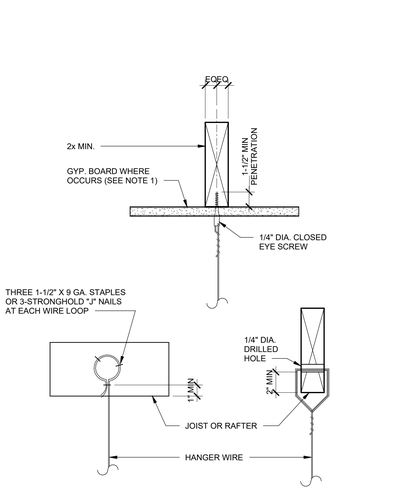
21.12.14 - 00000

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



21.12.14 - 00000

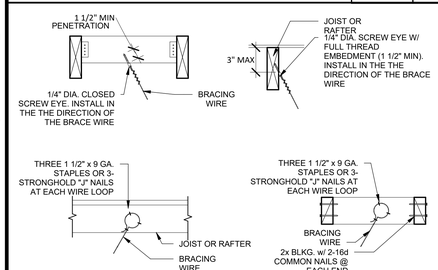
SUSP. CEILING-CORRIDOR CEILING PLAN | 3/32" = 1'-0" | 7



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.

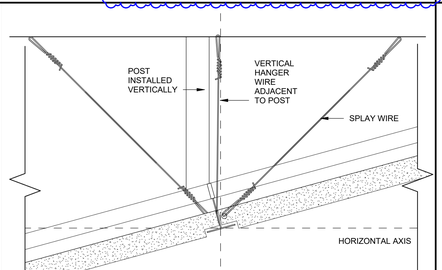
IR 25-2.19 4.25

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



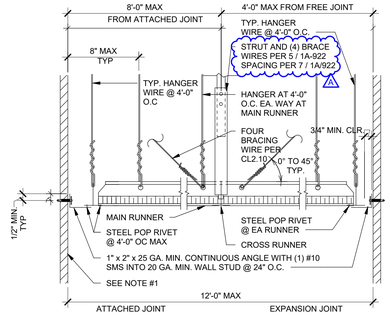
NOTES
1. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOUD DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

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



21.12.14 - 00000

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

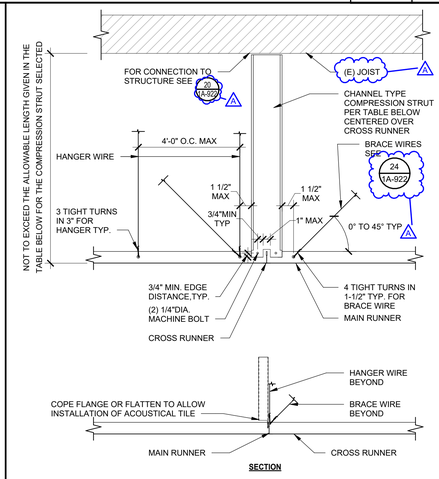


EXITWAY CORRIDOR DETAILS

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

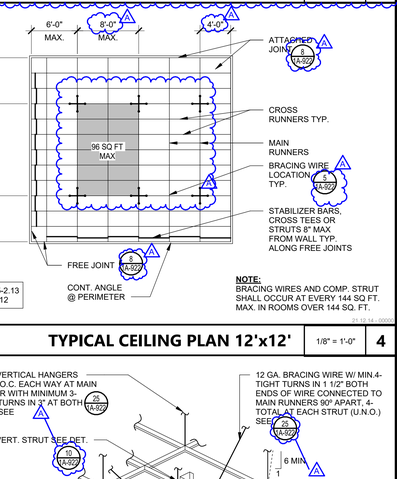


CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-10"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'10"
400S137-43	10'-10"

IR 25-2.13 3.10 3.21

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

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.



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

IR 25-2.13 2.12

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

IR 25-2.19 4.10

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

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

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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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION
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	04-15-2024	ADDENDUM

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PROJECT OWNER & TITLE
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RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS
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SHEET TITLE
CEILING DETAILS

ING.1

DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.
1A-922

DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt
DATE PLOTTED: 4/16/2024 4:03:10 PM

1. CEILING SYSTEM GENERAL NOTES:

1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E580-10A.

1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.

1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:

MANUFACTURER'S NAME ARMSTRONG® SQUARE LAY-IN
PRODUCT EVALUATION REPORT TYPE AND NUMBER ASTM C635 - 08 ICC ESR 1308
MANUFACTURER'S MODEL NUMBER - MAIN RUNNER PRELUDE® XL® 7321
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER XL7341

1.04 SEISMIC WALL CLIP: NOT USED

1.05 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.

1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ¾" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE ¾" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP.

2. MATERIALS:

2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641-09A. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.

2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653-11, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A2.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007, INCLUDING SUPPLEMENT 2 DATED 2010 (AISI S100-07/S2-10). MATERIAL 43 MIL (18 GAGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES:

3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.

3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.

3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.

3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE. (E.G. BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE. SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.)

4. FASTENERS:

4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

6. LIGHT FIXTURES:

6.01 ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

6.02 SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

6.03 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

6.04 LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.

EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

6.05 ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

7. SERVICES WITHIN THE CEILING:

7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.

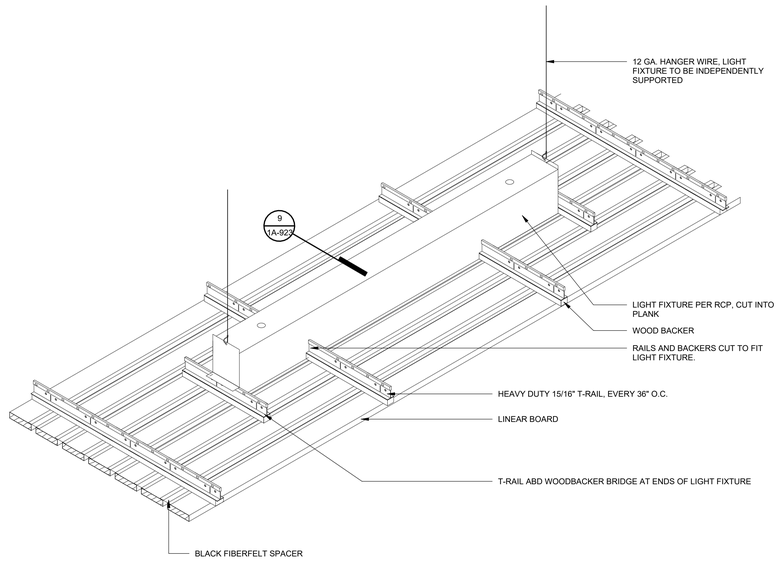
7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

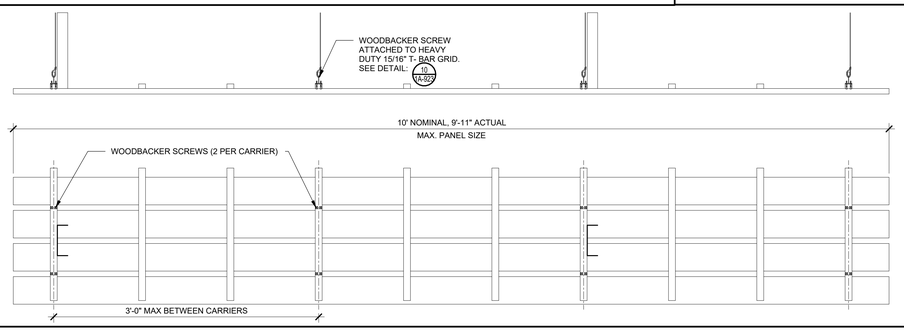
7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING:

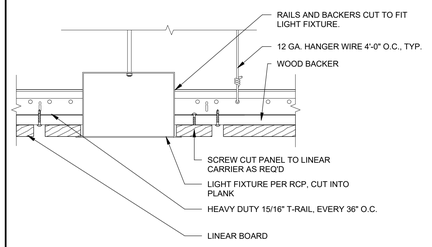
8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LB. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.



LINEAR LIGHT FIXTURES @ PANELISED CEILING | 1 1/2" = 1'-0" | **1**

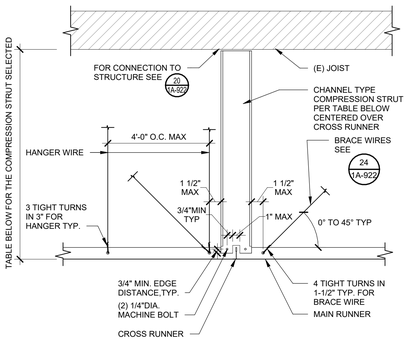


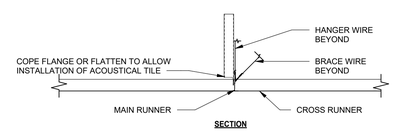
WOODBACKER CLIP PLACEMENT DETAIL | 1 1/2" = 1'-0" | **14**



WOODWORKS LINEAR @ LIGHT FIXTURE | 3" = 1'-0" | **9**

NOT TO EXCEED THE ALLOWABLE LENGTH SHOWN IN THE TABLE BELOW FOR THE COMPRESSION STRUT SELECTED

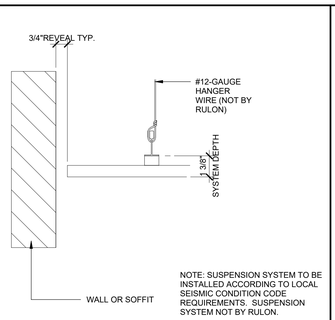




SECTION

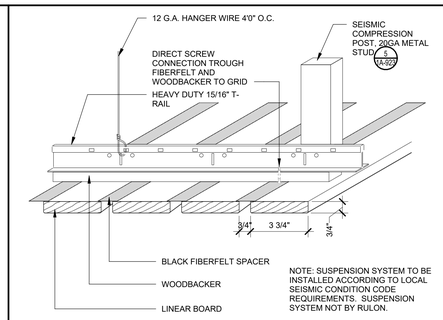
CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-10"
250S137-33	6'-10"
362S137-33	8'-0"

PANELIZED CEILING CH TYPE STRUT | 1 1/2" = 1'-0" | **5**



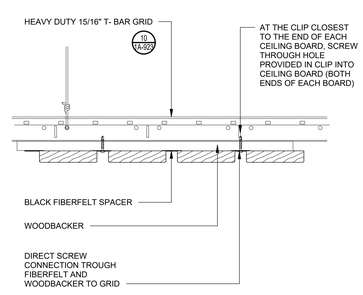
NOTE: SUSPENSION SYSTEM TO BE INSTALLED ACCORDING TO LOCAL SEISMIC CONDITION CODE REQUIREMENTS. SUSPENSION SYSTEM NOT BY RULON.

LINEAR PANELIZED CEILING - CLR | 3" = 1'-0" | **25**

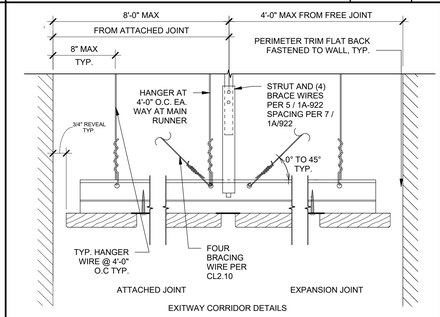


NOTE: SUSPENSION SYSTEM TO BE INSTALLED ACCORDING TO LOCAL SEISMIC CONDITION CODE REQUIREMENTS. SUSPENSION SYSTEM NOT BY RULON.

PANELIZED CEILING (ISOMETRIC) | 3" = 1'-0" | **20**



SCREW ATTACHMENT (FROM BELOW) | 3" = 1'-0" | **15**



LINEAR PANELIZED CEILING SECTION | N.T.S. | **10**

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SHEET TITLE

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DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.

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DATE: APRIL 12, 2024

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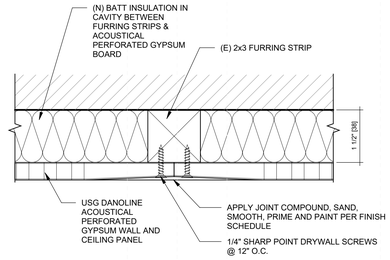
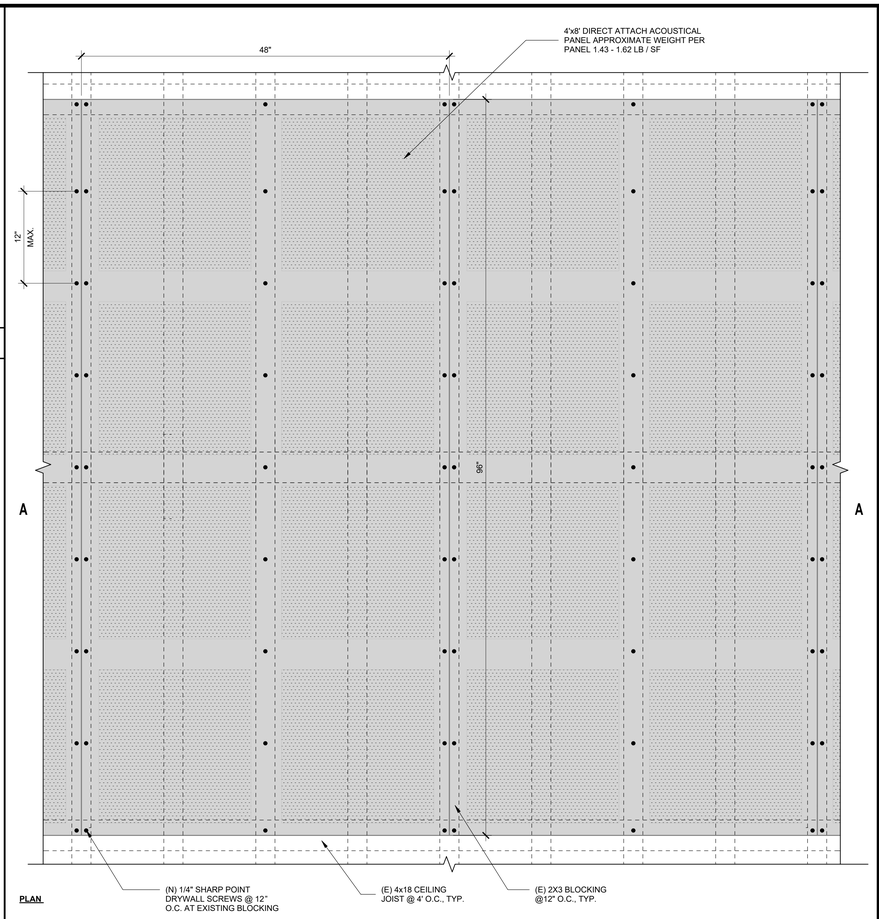
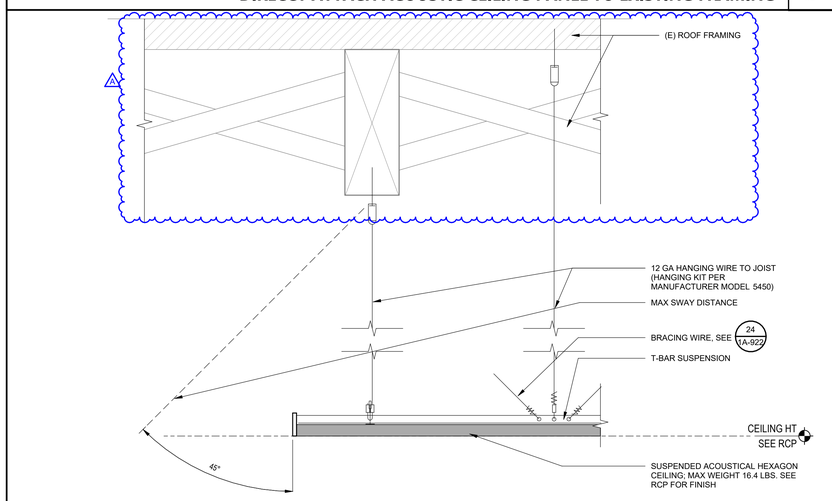


CEILING ATTACHMENT | N.T.S. | **11**



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



SUSPENDED ACOUSTIC HEXAGON CEILING (BLDG 2) | 3" = 1'-0" | **5**

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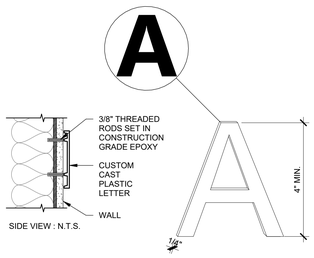
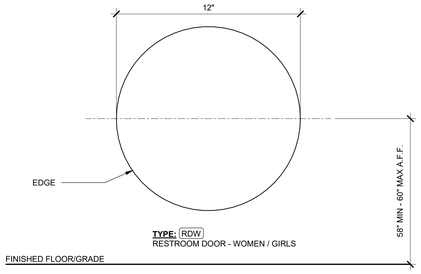
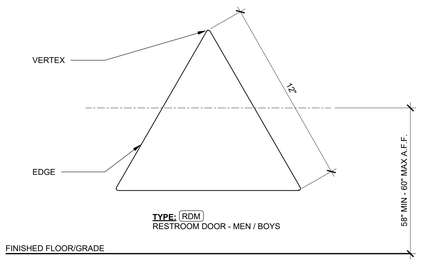
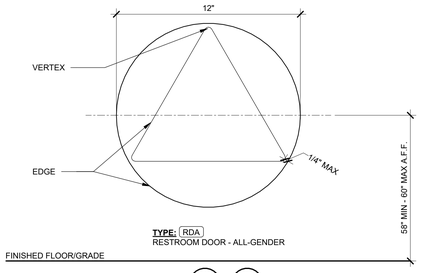


CAST PLASTIC LETTERS | 1 1/2" = 1'-0" | 21







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

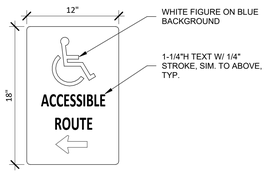
NOTE 5: VERTICES ON TRIANGLES SHALL BE RADIUSED BETWEEN 1/8" MIN AND 1/4" MAX.

NOTE 6: CIRCLE & TRIANGLE SYMBOL SHALL BE 1/4" THICK.

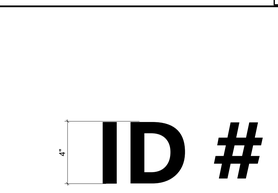
NOTE 7: THE INSCRIBED TRIANGLE SHALL BE 1/4" THICK CONTRASTING COLOR ON A 1/4" THICK CIRCLE (1/2" TOTAL THICKNESS) THAT IS IN CONTRAST WITH THE DOOR COLOR (NOTE 3)

21.12.14 - 00000

DOOR SYMBOLS - RESTROOM | 3" = 1'-0" | 18



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



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

NOTE 2: SIGNAGE MOUNTING PER

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

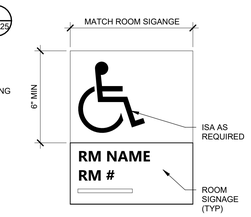
NOTE 1: FOR CHARACTERS AND BRAILLE REQUIREMENTS SEE (1 1A-925)

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

NOTE 3: FOR LOCATION AND MOUNTING SEE (4 1A-925) & (5 1A-925)

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

NOTE 5: ISA SHALL CONTRAST WITH THE BACKGROUND



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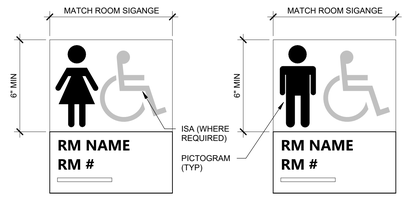
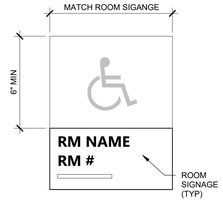
SIGNAGE - ROOM - ISA | 3" = 1'-0" | 11





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

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

NOTE 3: FOR LOCATION AND MOUNTING SEE (4 1A-925) & (5 1A-925)

NOTE 4: PICTOGRAMS SHALL BE PER (6 1A-925)

NOTE 5: ISA SYMBOL REQUIRED AT RESTROOMS IN BUILDINGS WHERE NOT ALL RESTROOMS ARE ACCESSIBLE.

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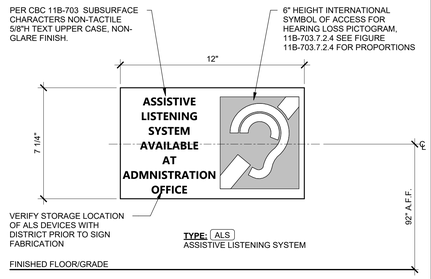
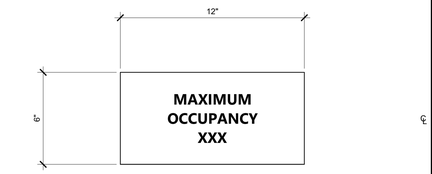
SIGNAGE - RESTROOMS - PICTOGRAMS | 3" = 1'-0" | 13



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



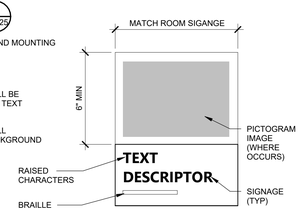
SIGNAGE - MAXIMUM OCCUPANCY | 3" = 1'-0" | 15

NOTE 1: FOR SIGNAGE SEE (2 1A-925) (3 1A-925) (10 1A-925)

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

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

NOTE 4: PICTOGRAM SHALL CONTRAST WITH THE BACKGROUND



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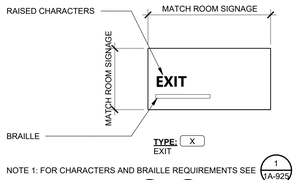
SIGNAGE - PICTOGRAMS | 3" = 1'-0" | 6



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

NOTE 2: FOR SIGN DESIGN SEE (2 1A-925) (3 1A-925)

NOTE 3: FOR LOCATION AND MOUNTING SEE (4 1A-925) & (5 1A-925)

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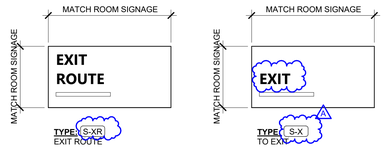
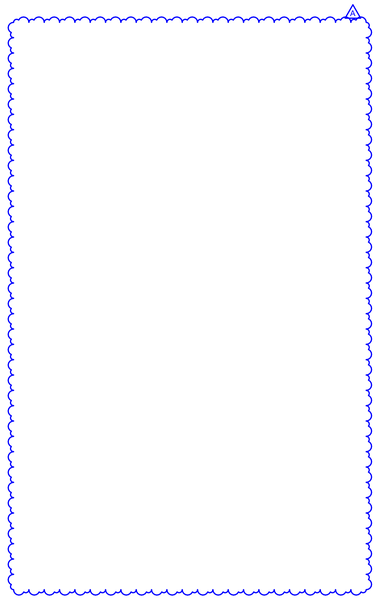
SIGNAGE - EXIT | 3" = 1'-0" | 7





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

NOTE 2: FOR SIGN DESIGN SEE (2 1A-925) (3 1A-925)

NOTE 3: FOR LOCATION AND MOUNTING SEE (4 1A-925) & (5 1A-925)

NOTE 4: WHEN PICTOGRAMS ARE USED, SEE (6 1A-925)

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

SIGNAGE - EXIT ROUTES | 3" = 1'-0" | 10

1. PROVIDE SIGNS WHERE INDICATED ON PLANS.
2. RAISED CHARACTERS SHALL COMPLY WITH SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE.
   - DEPTH: RAISED CHARACTERS SHALL BE 1/32INCH MINIMUM ABOVE THEIR BACKGROUND
   - CASE: CHARACTERS SHALL BE UPPER CASE
   - STYLE: CHARACTERS SHALL BE SANS SERIF
   - PROPORTIONS: THE WIDTH OF LETTER "O" SHALL BE 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF LETTER "T"
   - HEIGHT: 5/8 INCH MINIMUM AND 2 INCHES MAXIUM
3. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTION 11B-703.3.
   - DIMENSIONS: BASE DOT DIAMTER 0.059 INCHES TO 0.063 INCHES; SPACING IN EACH CELL AT 0.10 INCHES ON CENTER; SPACING BETWEEN CELLS TO BE 0.30 INCHES; DOT HEIGHT TO BE BETWEEN 0.025 INCHES TO 0.037 INCHES WITH DOMED TOPS
   - POSITION: BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT
4. CHARACTERS AND SYMBOLS SHALL BE LIGHT-ON-DARK OR DARK-ON-LIGHT CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND.
5. FOR ALL SIGNS MOUNTED ON GLAZING COORDINATE OPPOSITE SIDE SIGN IN THE SAME LOCATION. WHERE NO SIGN IS SPECIFIED ON OPPOSITE SIDE, PROVIDE A BLANK SIGN TO MATCH PER (4 1A-925)

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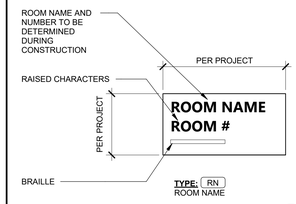
SIGNAGE - GENERAL NOTES | 12" = 1'-0" | 1



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

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

NOTE 3: FOR ROOM NAMES THAT REQUIRE MULTIPLE LINES OF TEXT, EXPAND THE SIGN VERTICALLY TO ACCOMMODATE THE TEXT

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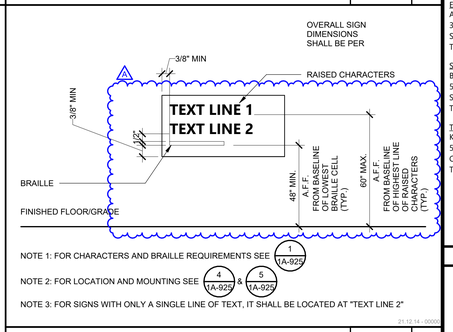
SIGNAGE - ROOM IDENTIFICATION | 3" = 1'-0" | 2



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

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

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

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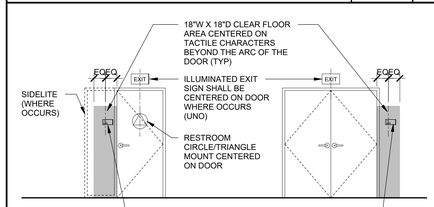
SIGNAGE - CODE DIMENSIONS | 3" = 1'-0" | 3



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

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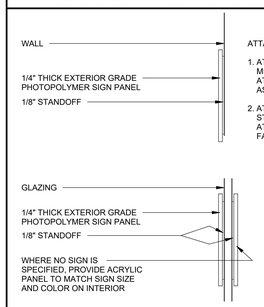
SIGNAGE - MOUNTING LOCATIONS | 1/4" = 1'-0" | 4



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

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

REVISIONS

NO.	DATE	DESCRIPTION
	04-01-2024	BID SET
A	04-15-2024	ADDENDUM

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SHEET TITLE

SIGNAGE DETAILS

INC.1

DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.

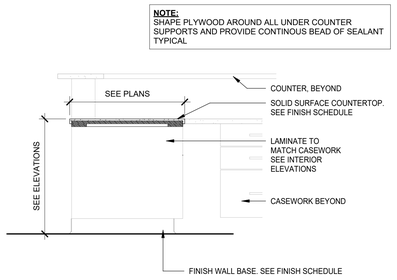
1A-925

DATE: APRIL 12, 2024

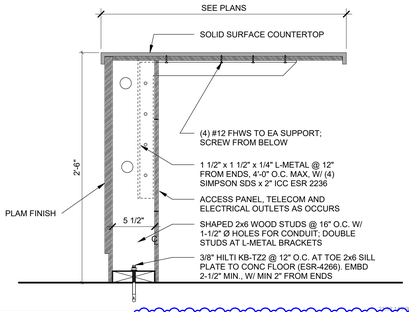
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 4/16/2024 4:03:16 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt

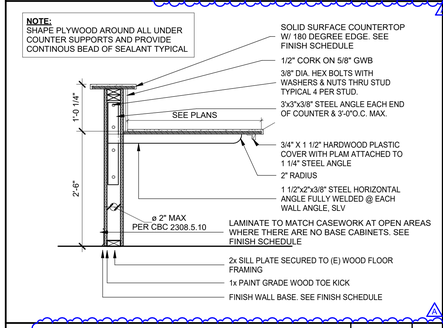
DATE PLOTTED: 4/16/2024 4:03:18 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_INC01_A22.rvt



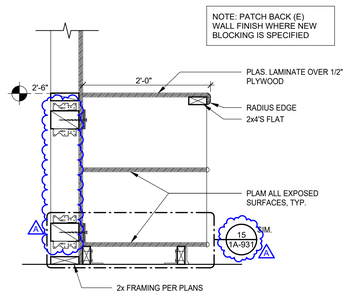
RECEPTION ADA COUNTER | 3/4" = 1'-0" | 16



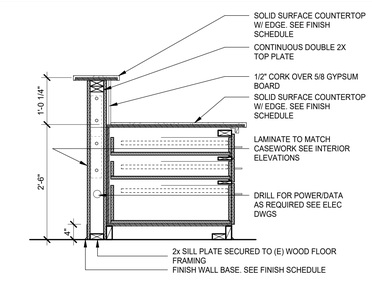
RECEPTION COUNTER | 1 1/2" = 1'-0" | 17



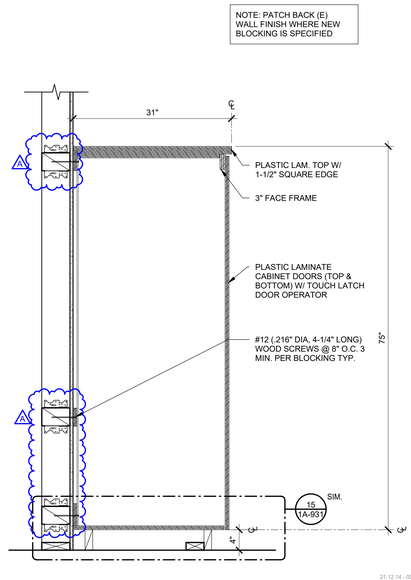
RECEPTION TRANSACTION COUNTER | 3/4" = 1'-0" | 18



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



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



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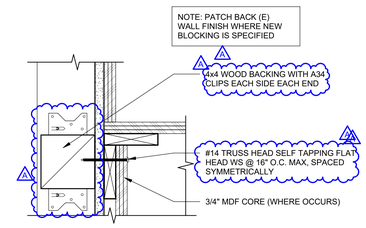
IDF CABINET | 1" = 1'-0" | 12



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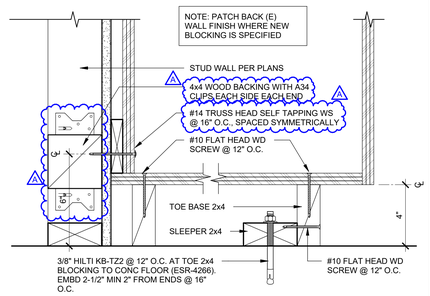
CABINETRY BLOCKING - COUNTER | 3" = 1'-0" | 14



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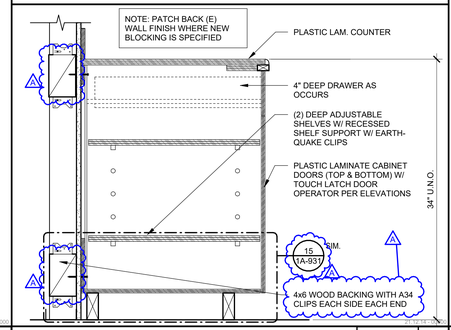
CABINETRY BLOCKING - BASE | 3" = 1'-0" | 15



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BASE CABINETS | 1 1/2" = 1'-0" | 7

CASEWORK NOTES

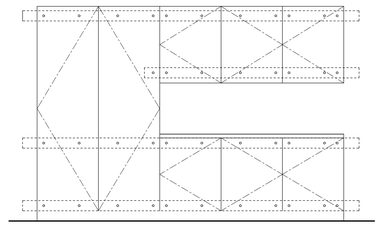
1. SEE INTERIOR ELEVATIONS AND FLOOR PLAN FOR CABINET CONFIGURATIONS AND DIMENSIONS. ONLY THOSE CABINETS CALLED OUT ON INTERIOR ELEVATIONS AND FLOOR PLAN SHALL BE PROVIDED
2. DOOR SWINGS SHALL BE AS SHOWN ON INTERIOR ELEVATIONS, IF NOT ELEVATED, SWINGS SHALL BE AS SHOWN ON DETAIL SHEET ILLUSTRATIONS. 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 ½" 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-[illegible] SEE STRUCTURAL DRAWINGS.

SYMBOLS AND NOTATIONS FOR CABINETS

HEIGHT (WHEN NOT STANDARD) — PLAM — MATERIAL
30 — 27 — DEPTH (WHEN NOT STANDARD)
LENGTH — 301 — 24 — NAAWS - STYLE NUMBER

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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REVISIONS

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A	04-15-2024	ADDENDUM

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SHEET TITLE

CASEWORK DETAILS

INC.1

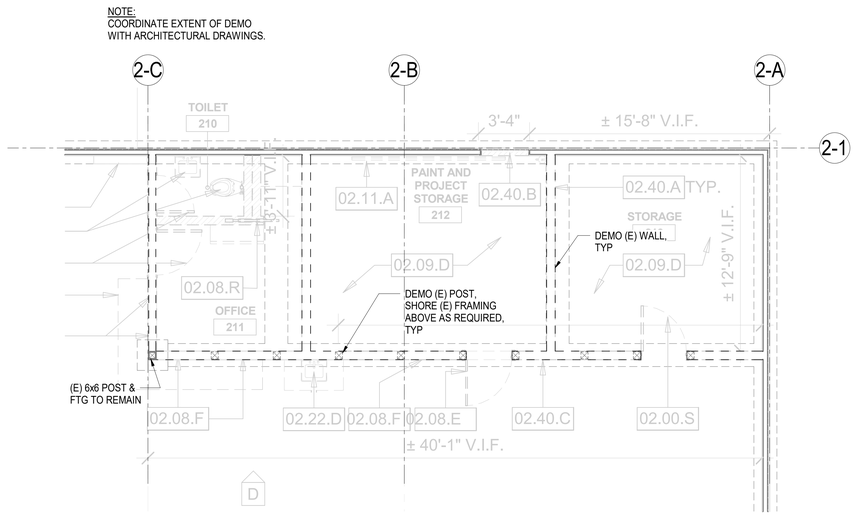
DRAWN BY: MP JOB NUMBER: 23118.01

SHEET NO.

1A-931

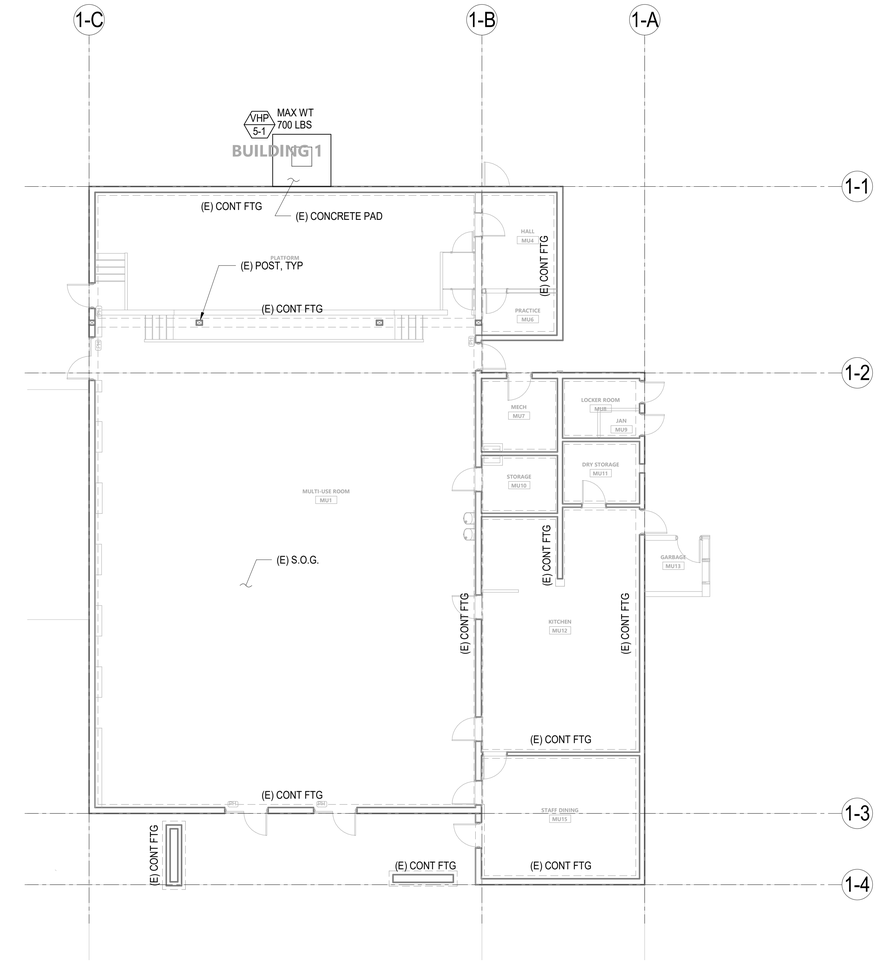
DATE: APRIL 12, 2024

CONSTRUCTION DOCUMENTS



3 PARTIAL FOUNDATION DEMO PLAN BUILDING 2

1/4" = 1'-0"

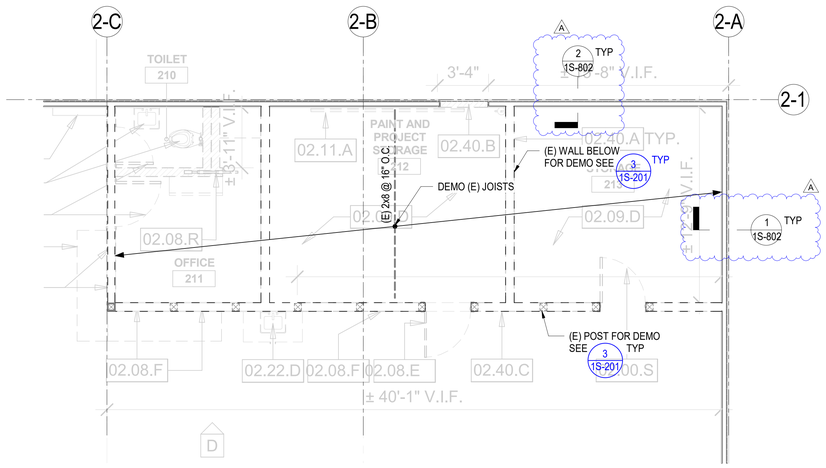


1 FOUNDATION PLAN BUILDING 1

1/8" = 1'-0"

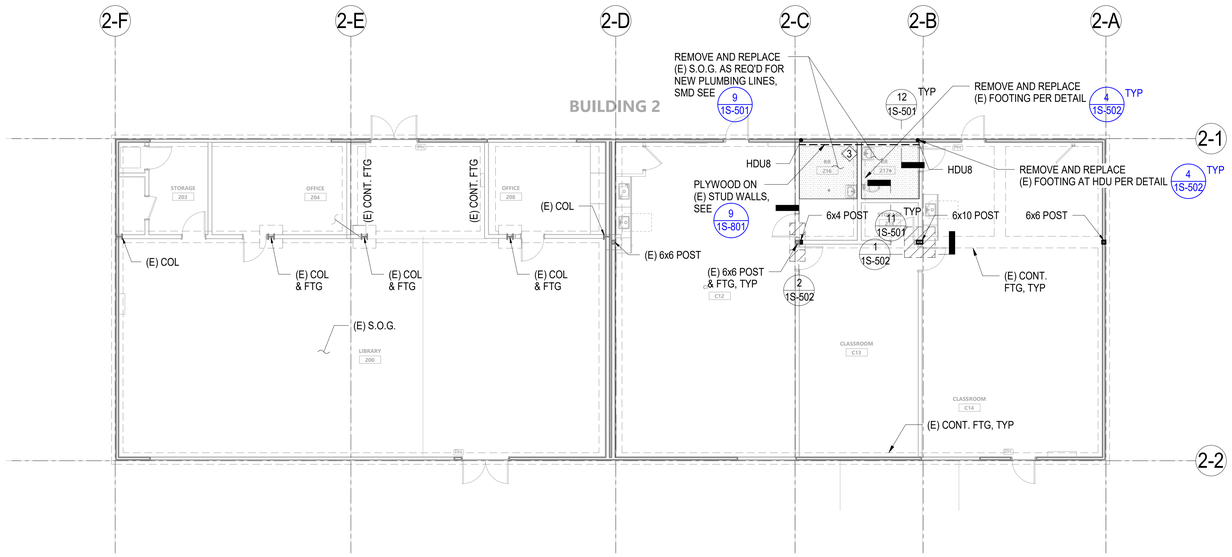
SHEET NOTES:

1. SEE GENERAL NOTES ON SHEET 1S-100.
2. SEE TYPICAL CONCRETE DETAILS ON SHEETS 1S-501.
3. REMOVE & REPLACE (E) S.O.G. AS REQUIRED, SEE SHEET 1S-501, COORDINATE WITH ARCH AND M/E/P DWGS.
4. SEE TYPICAL FRAMING DETAILS ON SHEETS 1S-800 AND 1S-801.
5. COORDINATE LOCATION OF MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SMD FOR ANCHORAGE REQUIREMENTS.



4 (E) MEZZANINE DEMO PLAN BUILDING 2

1/4" = 1'-0"



2 FOUNDATION PLAN BUILDING 2

1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
GOKHAN AKALAN
NO. 5694
STRUCTURAL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
A	04/16/2024	BID ADDENDUM 01

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

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

SHEET TITLE
BUILDING 1 & 2 - FOUNDATION PLANS

INC.1

DRAWN BY: SN JOB NUMBER: 23118.01

SHEET NO.
1S-201

DATE: JANUARY 16, 2024

AGENCY APPROVAL DSA#

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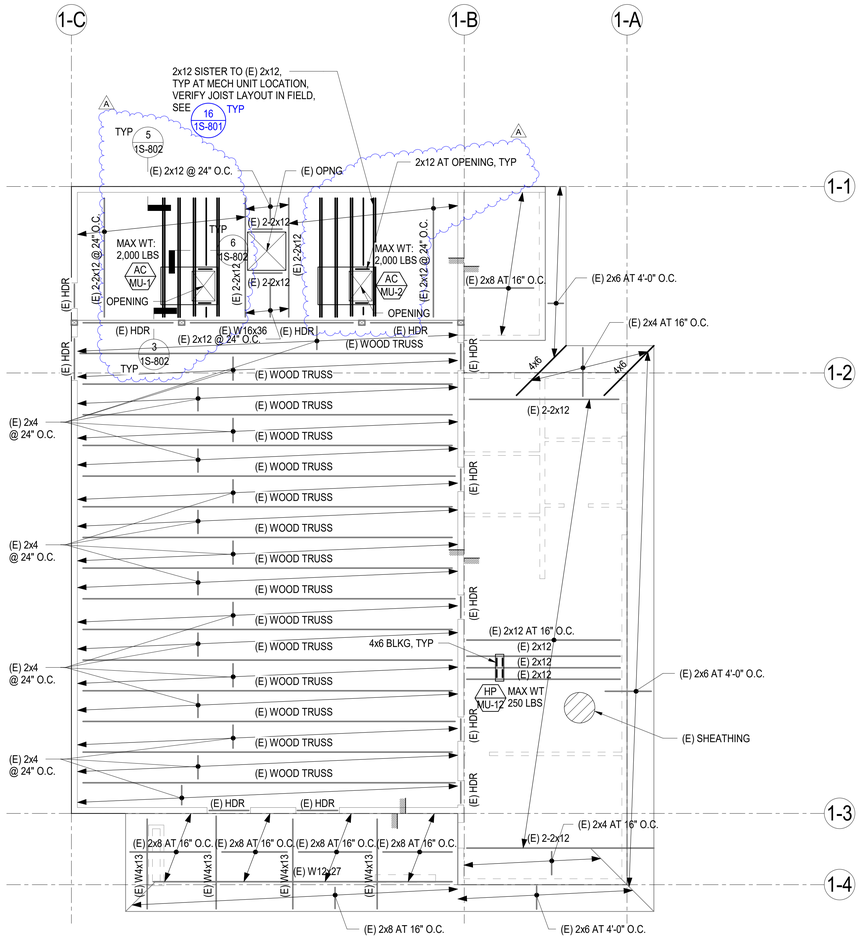
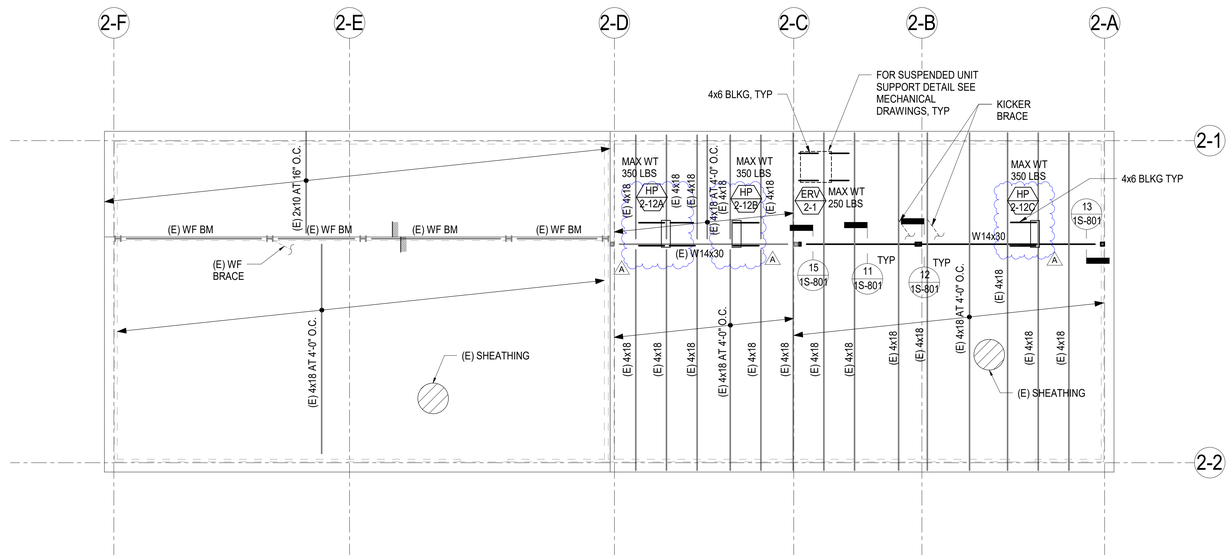


1 LOWER ROOF FRAMING PLAN BUILDING 1

1/8" = 1'-0"



2 ROOF FRAMING PLAN BUILDING 2

1/8" = 1'-0"

SHEET NOTES:
1. SEE GENERAL NOTES ON SHEET 1S-100.
2. SEE TYPICAL FRAMING DETAILS ON SHEETS 1S-800 AND 1S-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 1S-800

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Bay Point, CA 94565

SHEET TITLE
BUILDING 1 & 2 - ROOF FRAMING PLANS

INC.1

DRAWN BY: SN JOB NUMBER: 23118.01

SHEET NO.
1S-203

DATE: JANUARY 16, 2024

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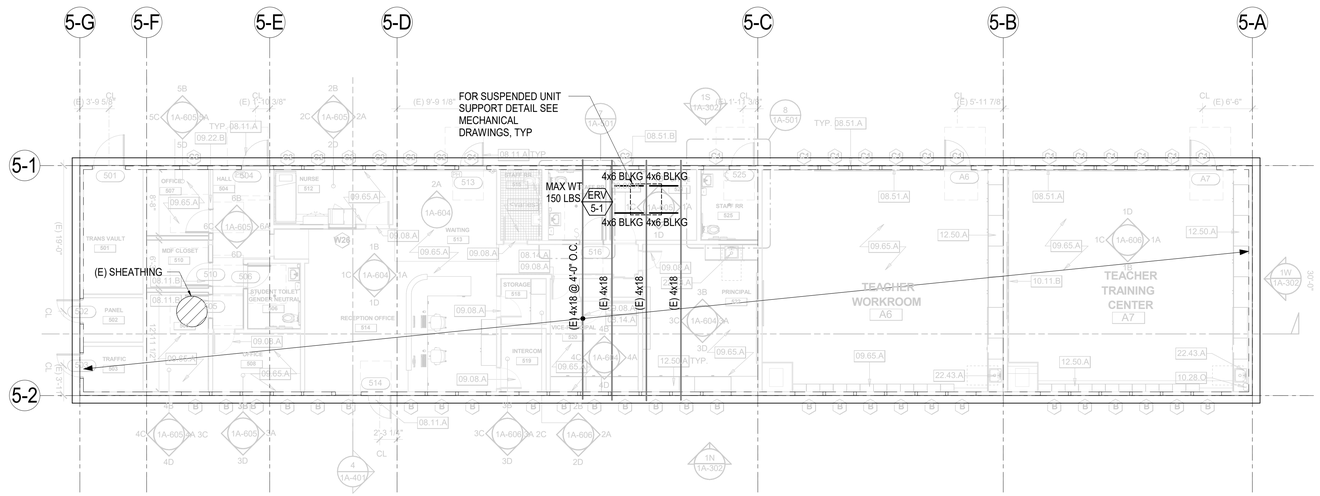
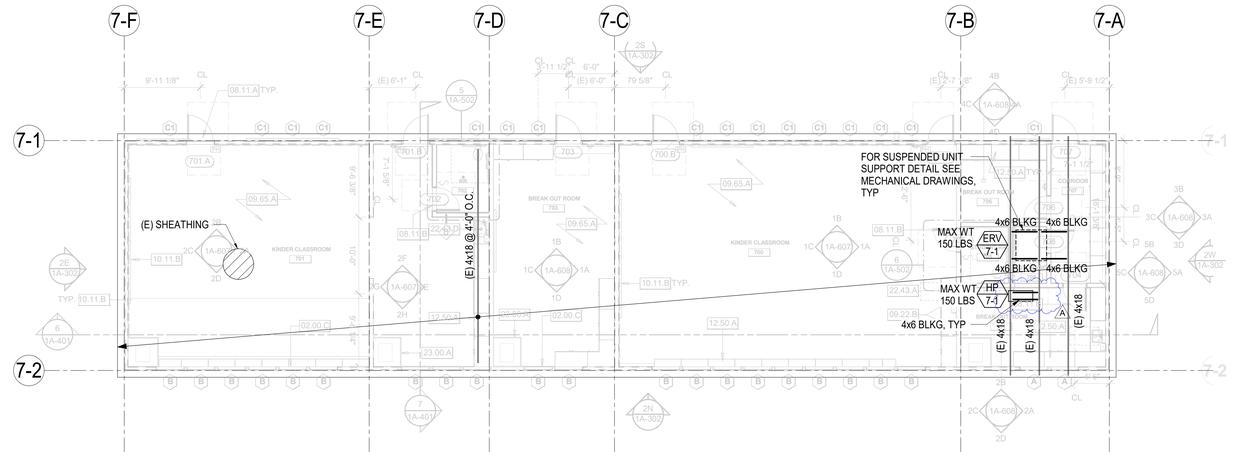


1 ROOF FRAMING PLAN - BUILDING 5

1/8" = 1'-0"



2 ROOF FRAMING PLAN - BUILDING 7

1/8" = 1'-0"

SHEET NOTES:

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

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SHEET TITLE

BUILDING 5 & 7 FRAMING PLANS

INC.1

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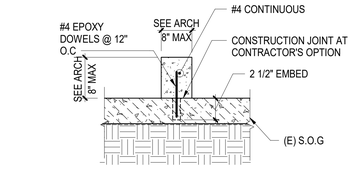
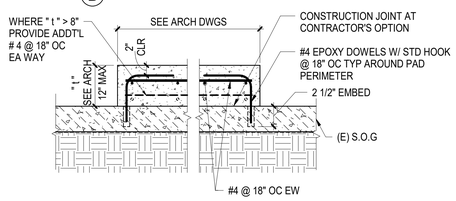


B CURB AT SLAB-ON-GRADE



A HOUSEKEEPING PAD

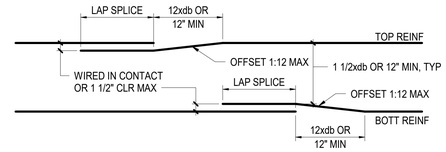
CONCRETE STRENGTH		3000 PSI			
REINFORCING CONFIGURATION		CASE 1		CASE 2	
BAR SIZE \ BAR LOCATION		TOP	OTHER	TOP	OTHER
"CLASS A LAP SPLICE AND STRAIGHT DEVELOPMENT LENGTH Ld (INCHES)"	#3	22	17	32	25
	#4	29	22	43	33
	#5	36	28	54	41
	#6	43	33	64	50
	#7	63	48	94	72
	#8	72	55	107	82
CLASS B LAP SPLICE (INCHES)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

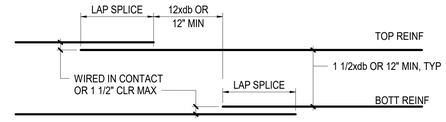
   OTHER ELEMENTS:
   - CONCRETE COVER >= db AND
   - CENTER-TO-CENTER SPACING >= 3x db

   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.



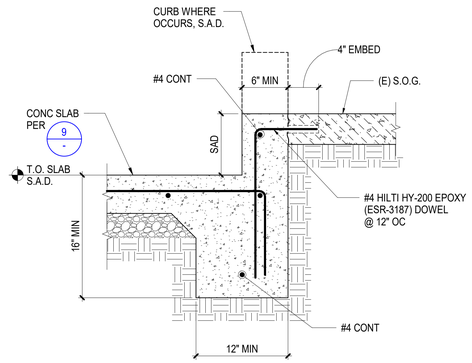
a BEAM SPLICE DETAIL



b STRAGGERED WALL OR SLAB SPLICE DETAIL

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

NTS

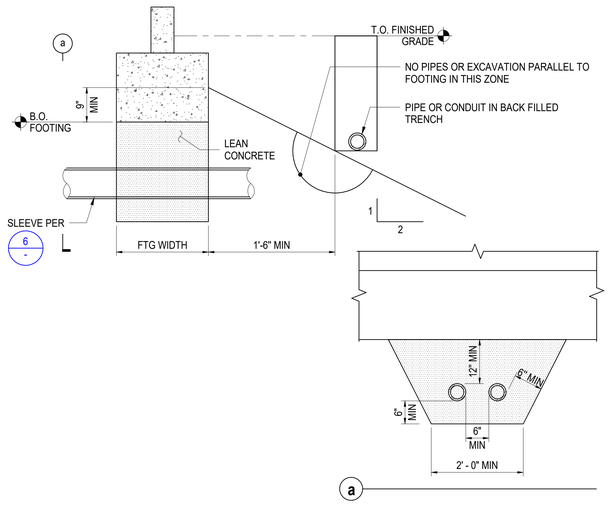


11 DEPRESSED SLAB DETAIL

1 1/2" = 1'-0"

7 LAP SPLICE + STRAIGHT BAR DEVELOPMENT LENGTHS

NTS

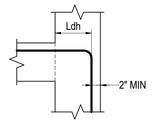


8 TYPICAL EXCAVATION PARALLEL TO FTG

NTS

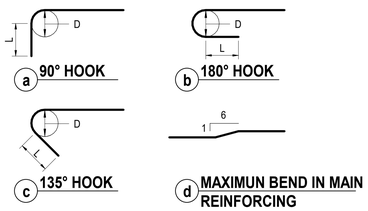
HOOKED BAR DEVELOPMENT LENGTH, Ldh			
BAR SIZE	CONCRETE STRENGTH		
	3000 PSI	4000 PSI	5000 PSI
#3	0' - 8"	0' - 7"	0' - 6"
#4	0' - 11"	0' - 9"	0' - 9"
#5	1' - 2"	1' - 0"	0' - 11"
#6	1' - 4"	1' - 2"	1' - 1"
#7	1' - 7"	1' - 5"	1' - 3"
#8	1' - 10"	1' - 7"	1' - 5"

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



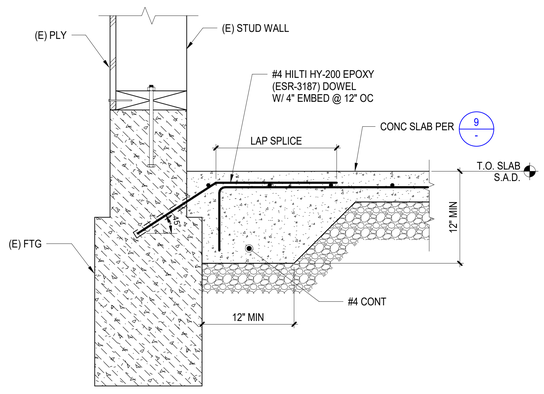
MAIN REINFORCING HOOKS			
BAR SIZE	BEND DIAMETER, D (IN)	90° HOOK L (IN)	180° HOOK L (IN)
#3	2 1/4	4 1/2	2 1/2
#4	3	6	2 1/2
#5	3 3/4	7 1/2	2 1/2
#6	4 1/2	9	3
#7	5 1/4	10 1/2	3 1/2
#8	6	12	4

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

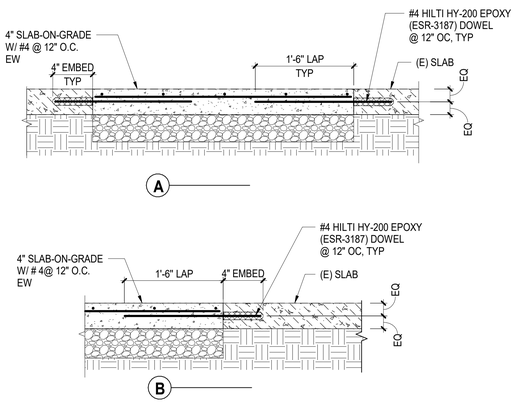
NTS

NOTE:
1. DO NOT DAMAGE (E) FOOTING REINFORCING BARS.



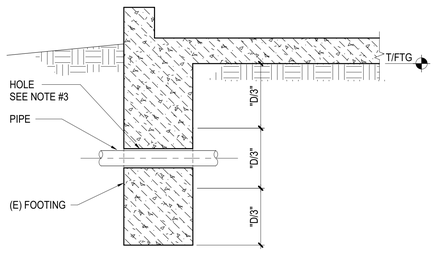
12 SECTION AT EXISTING FOOTING

1 1/2" = 1'-0"



9 SLAB-ON-GRADE AT (E) SLAB

NTS



NOTES:
1. PRIOR TO DRILLING FOR HOLE, LOCATE (E) REINFORCING. DO NOT CUT (E) REINFORCING AND MAINTAIN 1 1/2" CLR AROUND HOLE.
2. MAXIMUM PIPE SIZE 6" DIA UNLESS OTHERWISE NOTED.
3. PROVIDE 1" MINIMUM GAP BETWEEN PIPE AND HOLE ALL AROUND PIPE.
4. LOCATE PIPE WITHIN MIDDLE 1/3 OF (E) FOOTING DEPTH.
5. MINIMUM CLEAR DISTANCE BETWEEN SLEEVES SHALL BE 4x LARGEST SLEEVE DIAMETER.
6. CAULK SEAL GAP AT SLEEVE-TO-PIPE/CONDUIT INTERFACE ON EXTERIOR SIDE OF FOOTING.

6 PIPE PENETRATION THRU (E) FOOTING

1" = 1'-0"

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SHEET TITLE
TYPICAL CONCRETE DETAILS

INC:1

DRAWN BY: SN JOB NUMBER: 23118.01

SHEET NO.
1S-501

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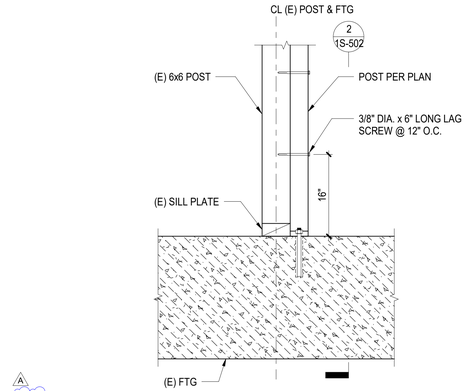
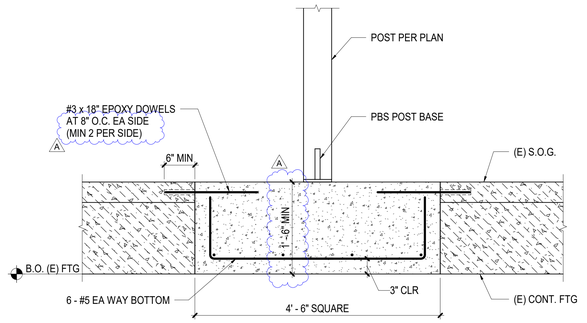


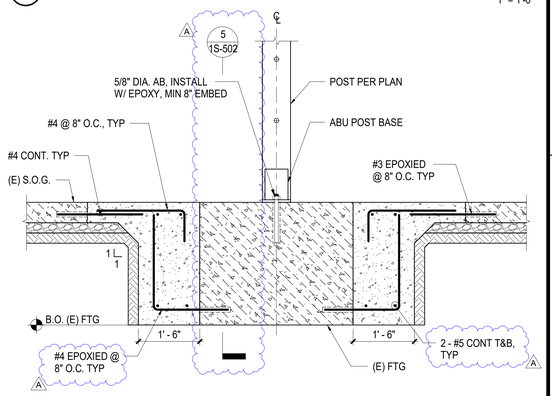
5 POST DETAIL AT (E) POST

1" = 1'-0"



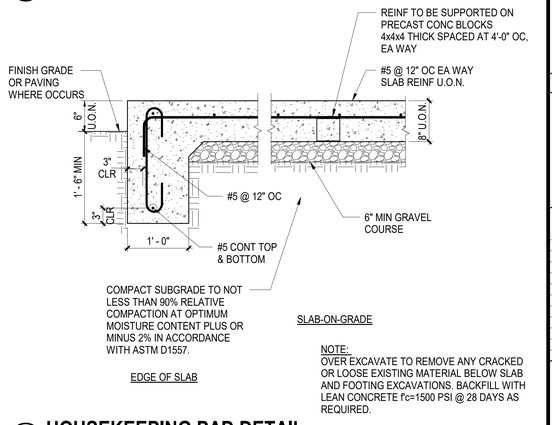
1 SECTION AT NEW FTG

1" = 1'-0"



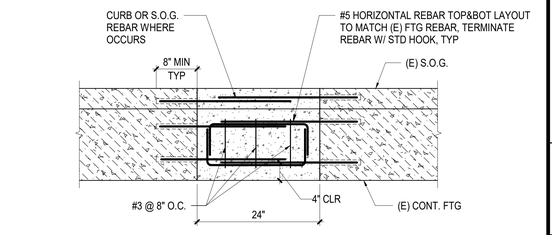
2 (E) FTG ENLARGEMENT

1" = 1'-0"



3 HOUSEKEEPING PAD DETAIL

NTS



4 (E) FTG REPLACEMENT DETAIL

1" = 1'-0"

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER GONKHAN AKALAN NO. 5694 STRUCTURAL STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
1		FOR PLAN CHECK ONLY, PER DSA IR_A-19
A	04/16/2024	BID ADDENDUM 01

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

PROJECT OWNER & TITLE

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

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

CONCRETE DETAILS

INC.1

DRAWN BY: SN JOB NUMBER: 23118.01

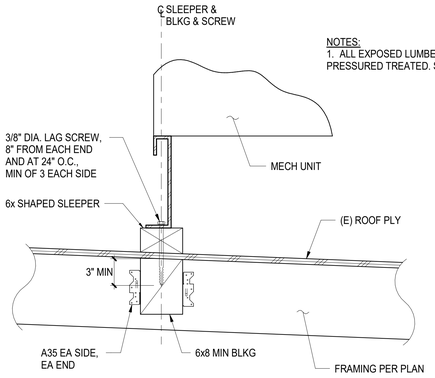
SHEET NO.

1S-502

DATE: JANUARY 16, 2024

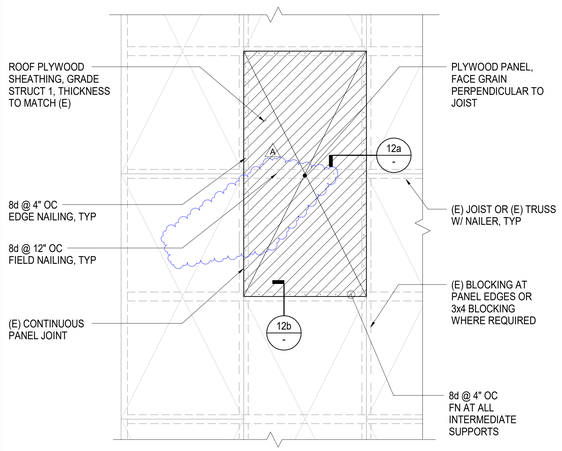
CONSTRUCTION DOCUMENT

DATE PLOTTED: 4/16/2024 12:58:29 PM FILE LOCATION: C:\Users\Ventura Priego\Desktop\Work from Home COVID19\23161 - Rio Vista ES Modernization\Drawings\Structural\Increment 1\23161 - Rio Vista ES Modernization - R23.rvt



10 MECHANICAL UNIT SUPPORT DETAIL

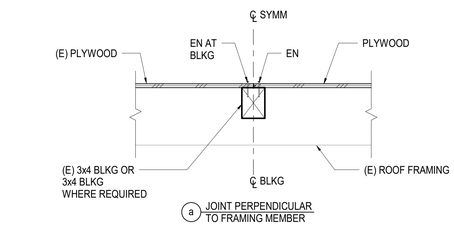
NTS

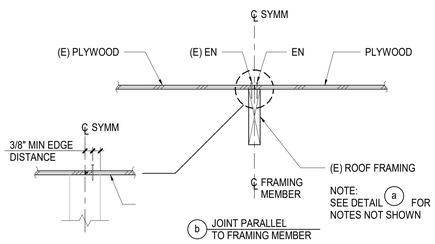


NOTES:
1. FOR 8d NAILS, PROVIDE 1 3/8 MIN PENETRATION INTO FRAMING.
2. REPLACE DAMAGED SHEET FULLY.

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 A	Face nail
4. Ceiling joist attached to parallel rafter (heel joint)	Per Table 2308.7.3.1.	Face nail
5. Collar tie to rafter	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
6. Rafter or roof truss to top plate	3-10 common (3" × 0.148"); or 3-16d box (3 1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, 7/16" crown	Toenail[c]
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3"14 gage staples, 7/16" crown; or	End nail
	3-10d common (3 1/2" × 0.148"); or 4-16d box (3 1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Toenail
WALL		
8. Stud to stud (not at braced wall panels)	16d common (3 1/2" × 0.162");	24" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	16d box (3 1/2" × 0.135"); or	12" o.c. face nail
	3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	12" o.c. face nail
10. Built-up header (2" to 2" header)	16d common (3 1/2" × 0.162"); or	16" o.c. each edge, face nail
	16d box (3 1/2" × 0.135")	12" o.c. each edge, face nail
11. Continuous header to stud	4-8d common (2 1/2" × 0.131"); or 4-10d box (3" × 0.128")	Toenail
12. Top plate to top plate	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
13. Top plate to top plate, at end joints	8-16d common (3 1/2" × 0.162"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (3 1/2"x0.163"); or	16" o.c. face nail
	16d box (3 1/2" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2-16d common (3 1/2 " × 0.162"); or 3-16d box (3 1/2" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	16" o.c. face nail
16. Stud to top or bottom plate	4-8d common (2 1/2" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown; or	Toenail
	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	End nail
17. Top plates, laps at corners and intersections	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Face nail
18. 1" brace to each stud and plate	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" 14 gage staples, 7/16" crown	Face nail
19. 1" × 6" sheathing to each bearing	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
20. 1" × 8" and wider sheathing to each bearing	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128")	Face nail

FASTENING SCHEDULE (CONT.)

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
FLOOR		
21. Joist to sill, top plate, or girder	3-8d common (2 1/2" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Toenail
22. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common (2 1/2" × 0.131"); or floor 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	6" o.c., toenail
23. 1" × 6" subfloor or less to each joist	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
24. 2" subfloor to joist or girder	2-16d common (3 1/2" × 0.162")	Face nail
25. 2" planks (plank & beam – floor & roof)	2-16d common (3 1/2" × 0.162")	Each bearing, face nail
26. Built-up girders and beams, 2" lumber layers	20d common (4" × 0.192")	32" o.c., face nail at top and bottom staggered on opposite sides
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	24" o.c. face nail at top and bottom staggered on opposite sides
	And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Ends and at each splice, face nail
27. Ledger strip supporting joists or rafters	3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Each joist or rafter, face nail
28. Joist to band joist or rim joist	3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	End nail
29. Bridging or blocking to joist, rafter or truss	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Each end, toenail
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing		
		Edges (inches) / **Intermediate supports (inches)**
30. 3/8" – 1/2"	6d common or deformed (2" × 0.113") (subfloor and wall)	6 / 12
	8d common or deformed (2 1/2" × 0.113") (roof)	6 / 12
	2 3/8" × 0.113" nail (subfloor and wall)	6 / 12
	1 3/4" 16 gage staple, 7/16" crown (subfloor and wall)	4 / 8
	2 3/8" × 0.113" nail (roof)	4 / 8
	1 3/4" 16 gage staple, 7/16" crown (roof)	3 / 6
31. 19/32" – 3/4"	8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113") (subfloor and wall)	6 / 12
	8d common or deformed 2 1/2" x 0.131"); (roof) or RSRS-01 (2 3/8" x 0.113") nail (roof)[d]	6 / 12
	2 3/8" × 0.113" nail; or 2" 16 gage staple, 7/16" crown	4 / 8
32. 7/8" – 1 1/4"	10d common (3" × 0.148"); or 8d deformed (2 1/2" × 0.131")	6 / 12
Other exterior wall sheathing		
33. 1/2" fiberboard sheathingb	1 1/2" galvanized roofing nail (7/16" head diameter); or 1 1/4" 16 gage staple with 7/16" or 1" crown	3 / 6
34. 25/32" fiberboard sheathingb	1 3/4" galvanized roofing nail (7/16" diameter head); or 1 1/2" 16 gage staple with 7/16" or 1" crown	3 / 6
Wood structural panels, combination subfloor underlayment to framing		
35. 3/4" and less	8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113")	6 / 12
36. 7/8" – 1"	8d common (2 1/2" × 0.131"); or 8d deformed (2 1/2" × 0.131")	6 / 12
37. 1 1/8" – 1 1/4"	10d common (3" × 0.148"); or 8d deformed (2 1/2" × 0.131")	6 / 12
Panel siding to framing		
38. 1/2" or less	6d corrosion-resistant siding (1 7/8" × 0.106"); or 6d corrosion-resistant casing (2" × 0.099")	6 / 12
39. 5/8"	8d corrosion-resistant siding (2 3/8" × 0.128"); or 8d corrosion-resistant casing (2 1/2 " × 0.113")	6 / 12
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing [a]		
		Edges (inches) / **Intermediate supports (inches)**
40. 1/4 "	4d casing (1 1/2" × 0.080"); or 4d finish (1 1/2" × 0.072")	6 / 12
41. 3/8 "	6d casing (2" × 0.099"); or 6d finish (Panel supports at 24 inches)	6 / 12

For SI: 1 inch = 25.4 mm.

a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. Nails for wall sheathing are permitted to be common, box or casing.
b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).
c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.
d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

9 NAILING SCHEDULE

NTS

AGENCY APPROVAL DSA#

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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
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1936 Carlotta Dr. Concord
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

NAILING SCHEDULE

INC.1

DRAWN BY: SN JOB NUMBER: 23118.01

SHEET NO.

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DATE: JANUARY 16, 2024

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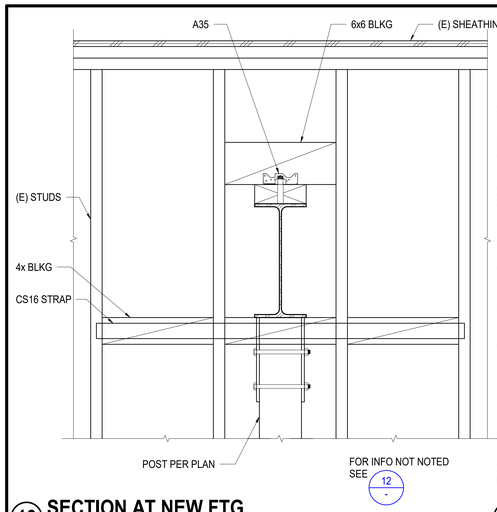
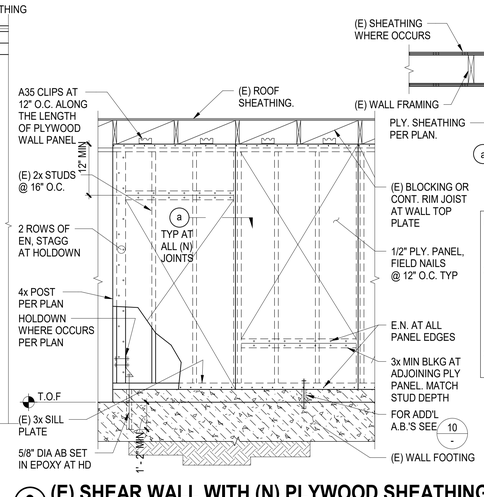


13 SECTION AT NEW FTG

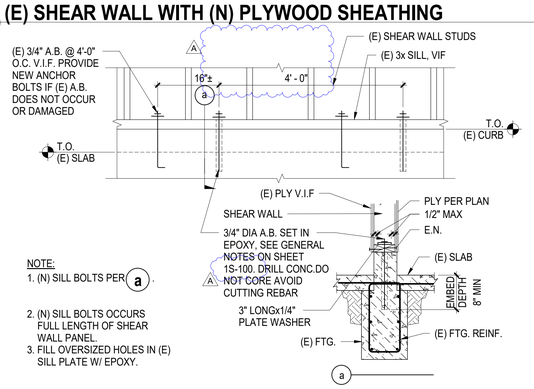
1 1/2" = 1'-0"



NOTES:
1. PRE-DRILL ALL HOLES IN (E) SEASONED DRY LUMBER.
2. WHERE EXISTING PLY OCCURS; VERIFY EXISTING EDGE NAIL SPACING IN FIELD. PROVIDE ADDITIONAL NAIL TO MATCH EDGE NAIL SPACING PER PLAN. NAIL SIZE TO MATCH (E) EDGE NAIL (MIN 8d).
3. X DENOTES EDGE NAIL SPACING IN INCHES PER PLAN. USE 10d NAILS.

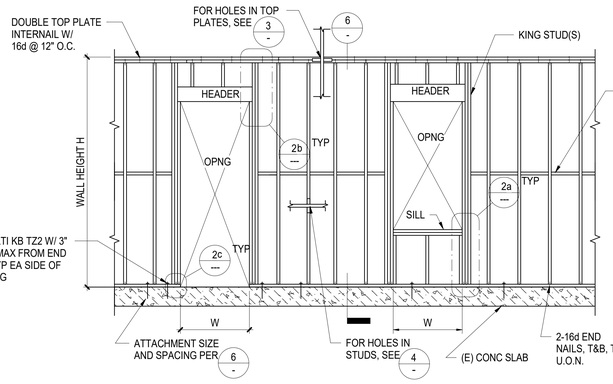
9 (E) SHEAR WALL WITH (N) PLYWOOD SHEATHING

NTS



NOTE:
1. (N) SILL BOLTS PER a .
2. (N) SILL BOLTS OCCURS FULL LENGTH OF SHEAR WALL PANEL.
3. FILL OVERSIZED HOLES IN (E) SILL PLATE W/ EPOXY.

5 TYPICAL INTERIOR NON-BEARING WALL FRAMING



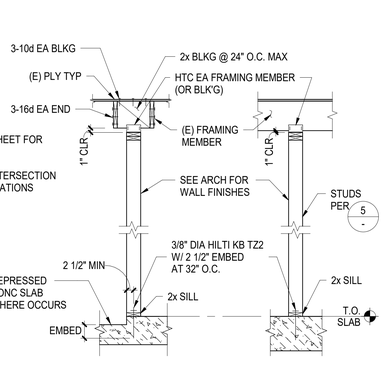
NON-BEARING WALL STUD SCHEDULE		
WALL HEIGHT	STUD SIZE	SPACING
H < 14'-0"	2x6 2x4	16"

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.



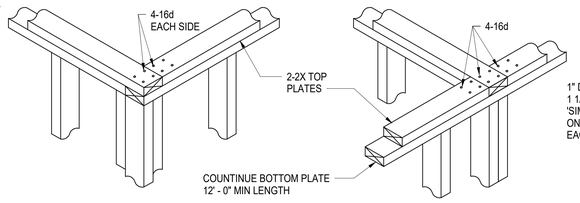
NOTES:
1. SEE DETAIL 5 ON THIS SHEET FOR TYPICAL WALL FRAMING.
2. FOR PARTITION WALL INTERSECTION DETAILS & STUD CONFIGURATIONS SEE 7 -

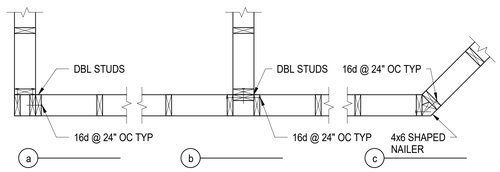
a PARTITION PARALLEL TO JOIST

b PARTITION PERPENDICULAR TO JOIST

6 NON-BEARING WALL PARTITION

NTS

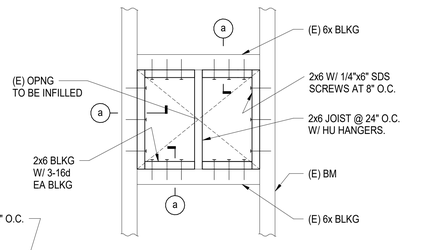




a b c

7 WALL INTERSECTIONS

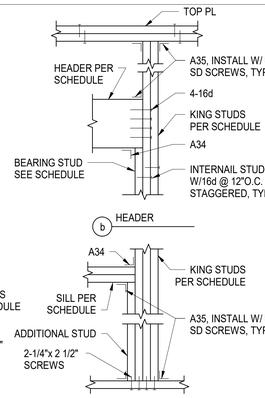
NTS



2 WALL OPENING

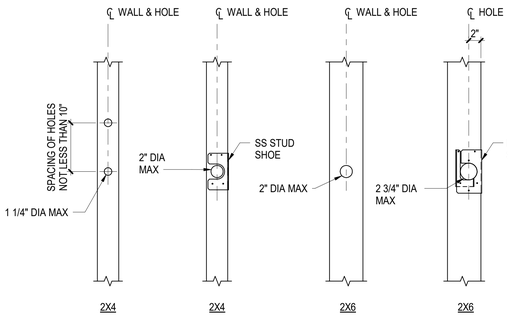
NTS

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



3 TOP PLATE PENETRATIONS

NTS

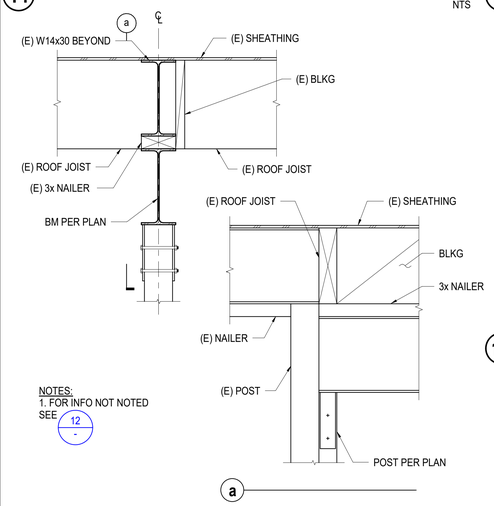


4 PENETRATIONS IN STUDS

NTS

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

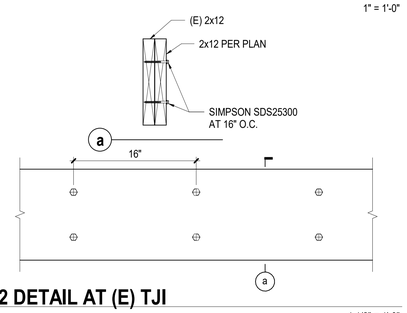
NTS



NOTES:
1. FOR INFO NOT NOTED SEE 12 -

15 STEEL BEAM TO POST CONNECTION DETAIL

1" = 1'-0"

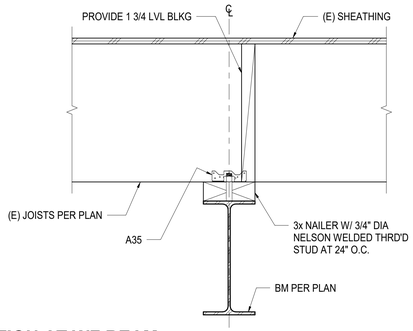


16 2x12 DETAIL AT (E) TJI

1 1/2" = 1'-0"

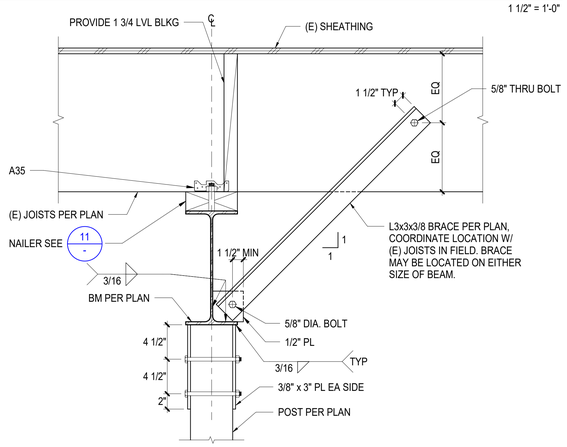
10 (N) ADDITIONAL SILL ANCHOR BOLTS

NTS



11 SECTION AT WF BEAM

1 1/2" = 1'-0"



12 DETAIL AT WF OVER NEW POST

1 1/2" = 1'-0"

8 INFILL OF EXISTING OPENING

NTS

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

REVISIONS

NO.	DATE	DESCRIPTION
1		FOR PLAN CHECK ONLY, PER DSA IR_A-19
A	04/16/2024	BID ADDENDUM 01

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
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Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

FRAMING DETAILS

INC.1

DRAWN BY: SN JOB NUMBER: 23118.01

SHEET NO.

1S-801

DATE: JANUARY 16, 2024

AGENCY APPROVAL DSA#

CONSTRUCTION DOCUMENT

DATE PLOTTED: 4/16/2024 12:58:30 PM FILE LOCATION: C:\Users\Ventura Priego\Desktop\Work from Home COVID\19231161 - Rio Vista ES Modernization\Drawings\StructuralIncrement 1\23161 - Rio Vista ES Modernization - R23.rvt

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	INTEGRAL 0-10V DIMMING DRIVER	120	4" WIDE LINEAR DIRECT/INDIRECT LED PENDANT. WHITE FINISH. TOP GLOW AND BOTTOM GLOW DIFFUSERS. FLAT ENDCAPS. T6 EXTRUDED ALUMINUM HOUSING. INTEGRAL OCCUPANCY SENSOR AND DAYLIGHT SENSOR.	FINELITE HP4 SERIES HP-4-P-ID-__-S-B-840-TG-BG-96LG-120-SC-FC-10%-FA50-Cx-FE-SW-W601 OR APPROVED EQUAL	THROUGHOUT	3.4 /FT	1. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF. 2. PROVIDE LENGTHS AS SHOWN ON PLANS. 3. SEE DETAILS 3 & 4/1E402.
L1E	8.1 /FT	LED	4000	80	954 /FT	118	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-F-96LG-120-SC-FC-10%-Cx-FE-SW-LGD18W-W601 OR APPROVED EQUAL	THROUGHOUT	3.4 /FT	1. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF. 2. PROVIDE LENGTHS AS SHOWN ON PLANS. 3. SEE DETAILS 3 & 4/1E402.
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.
L2E	7.1 /FT	LED	4000	80	720 /FT	102	INTEGRAL 0-10V DIMMING DRIVER	120	SIMILAR TO TYPE "L2" EXCEPT WITH UL LISTED EMERGENGY BATTERY PACK WITH MINIMUM 90 MINUTE RUNTIME.	FINELITE HP4 SERIES HP-4-R-D-__-H-840-BG-96LG-120-SC-FC-10%-FA50-Cx-FE-SW-LGD18W-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.
L3	9.3 /FT	LED	4000	80	926 /FT	100	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-__-V-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.
L4	9.2 /FT	LED	4000	80	822 /FT	89	INTEGRAL 0-10V DIMMING DRIVER	120	2" 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 HP2 SERIES HP-2-SM-D-__-V-840-BG-96LG-120-SC-FC-10%-FA50-Cx-FE-SW-W601 OR APPROVED EQUAL	RECEPTION OFFICE	3.4 /FT	1. MOUNT BOTTOM OF FIXTURE AT CEILING HEIGHT. 2. PROVIDE LENGTHS AS SHOWN ON PLANS. 3. SEE DETAIL 7 & 8/1E402.
L4E	9.2 /FT	LED	4000	80	822 /FT	89	INTEGRAL 0-10V DIMMING DRIVER	120	SIMILAR TO TYPE "L4" EXCEPT WITH UL LISTED EMERGENGY BATTERY PACK WITH MINIMUM 90 MINUTE RUNTIME.	FINELITE HP2 SERIES HP-2-SM-D-__-V-840-BG-96LG-120-SC-FC-10%-FA50-Cx-FE-SW-LGD18W-W601 OR APPROVED EQUAL	RECEPTION OFFICE	3.4 /FT	1. MOUNT BOTTOM OF FIXTURE AT CEILING HEIGHT. 2. PROVIDE LENGTHS AS SHOWN ON PLANS. 3. SEE DETAIL 7 & 8/1E402.
R1	27.8	LED	3500	80	2005	72.1	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	4.5" DIAMETER ROUND LED DOWNLIGHT. DIE CAST ALUMINUM TRIM WITH FORGED ALUMINUM HEAT SINK. CLEAR SEMI-SPECULAR REFLECTOR. FLUSH DIFFUSE LENS. HIGH EFFICIENCY REFLECTOR.	HE WILLIAMS 4DR SERIES 4DR-L20-8-35-DIM-UNV HOUSING WITH L-W-OF-CS-MWT-AD TRIM AND N-F1 MOUNTING OR APPROVED EQUAL	THROUGHOUT	11	1. RECESS MOUNT BOTTOM OF FIXTURE TO CEILING. 2. SEE DETAIL 5/1E402.
R1E	27.8	LED	3500	80	2005	72.1	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	SIMILAR TO TYPE "R1" EXCEPT WITH INTEGRAL UL LISTED BATTERY PACK WITH MINIMUM 90 MIN RUNTIME.	HE WILLIAMS 4DR SERIES 4DR-L30-8-35-EM/10W-DIM-UNV HOUSING WITH L-W-OF-CS-MWT-AD TRIM AND N-F1 MOUNTING OR APPROVED EQUAL	THROUGHOUT	11	1. RECESS MOUNT BOTTOM OF FIXTURE TO CEILING. 2. SEE DETAIL 5/1E402.
W1	4.6 /FT	LED	4000	80	477 /FT	107	INTEGRAL 0-10V DIMMING DRIVER	120	4" WIDE LINEAR DIRECT LED WALL MOUNT. WHITE FINISH. TOP GLOW AND BOTTOM GLOW DIFFUSERS. FLAT ENDCAPS. T6 EXTRUDED ALUMINUM HOUSING. INTEGRAL OCCUPANCY SENSOR AND DAYLIGHT SENSOR.	FINELIGHT HP4 SERIES HP-4-WM-D-__-B-840-BG-96LG-120-SC-FC-10%-MB-FE-SW-W601 OR APPROVED EQUAL	THROUGHOUT	3.4 /FT	1. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF. 2. PROVIDE LENGTHS AS SHOWN ON PLANS. 3. SEE DETAIL 6/1E402.
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.
X2	5.0	LED	N/A	N/A	N/A	N/A	ELECTRONIC, INTEGRAL	UNIVERSAL	SELF POWERED MAIN/REMOTE EXIT SIGN COMBINATION (MAIN UNIT). BRUSHED ALUMINUM FACEPLATES WITH GREEN LETTERING. RECESSED FLOOR PROXIMITY UNIT. VANDAL RESISTANT FLOOR PROXIMITY UNIT. INTEGRAL UL LISTED EMERGENCY BATTERY PACK WITH MINIMUM 90 MINUTE RUNTIME.	EMERGILITE PRESTIGE FLOOR PROXIMITY SERIES DXN-1-G-M-N MAIN UNIT WITH LL-G-R-VR1 FLOOR PROXIMITY UNIT OR APPROVED EQUAL	CLASSROOMS, CORRIDORS	3	1. MOUNT BOTTOM OF MAIN FIXTURE AT 8'-0" AFF. ABOVE EGRESS DOOR. 2. PROVIDE MOUNTING HARDWARE, QUANTITY/DIRECTION OF ARROWS, AND QUANTITY OF FACES AS INDICATED ON PLANS. 3. WHERE NO EGRESS DOOR IS PRESENT, MOUNT UNITS STACKED IN APPROXIMATE LOCATION SHOWN.

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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PROFESSIONAL STAMP

REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
SCHEDULES

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E002

DATE: DECEMBER 06, 2023

EQUIPMENT SCHEDULE

EQUIPMENT DESIGNATION	EQUIPMENT TYPE	LOCATION	PACKAGE UNITS MCA	PACKAGE UNITS MOCP	AMPS	HORSEPOWER	KVA	VOLTAGE/PHASE, QTY WIRES	CONNECTION TO EMS	INTERLOCK WITH	MOTOR STARTERS TYPE	MOTOR STARTERS S.STARTER NEMA SIZE	MOTOR STARTERS AUXILIARY DEVICES IN STARTERS	CONTROL DEVICES	CONNECTION TO FA PANEL	CONTROL WIRING AS REQUIRED	FUSED DISCONNECT SWITCH	LOCKOUT TOGGLE SWITCH	CONDUIT (IN)	POWER WIRING	REMARKS
AC-MU-1	AIR CONDITIONING	BLDG 1	30.0	35				480/3, 3W							E		E		3/4	(3) #8 + (1) #10	UNIT WITH 4000 CFM AND SMOKE DETECTOR IN SUPPLY DUCT. CONNECT TO FIRE ALARM SYSTEM FOR AUTOMATIC SHUTDOWN.
PE-MU-1	POWER EXHAUST	BLDG 1	3.9	20		2.0		480/3, 3W									E		3/4	(3) #12 + (1) #12	POWER EXHAUST FOR AC-MU-1
AC-MU-2	AIR CONDITIONING	BLDG 1	30.0	35				480/3, 3W							E		E		3/4	(3) #8 + (1) #10	UNIT WITH 4000 CFM AND SMOKE DETECTOR IN SUPPLY DUCT. CONNECT TO FIRE ALARM SYSTEM FOR AUTOMATIC SHUTDOWN.
PE-MU-2	POWER EXHAUST	BLDG 1	3.9	20		2.0		480/3, 3W									E		3/4	(3) #12 + (1) #12	POWER EXHAUST FOR AC-MU-2
VHP-5-1	OUTDOOR UNIT HEAT PUMP	OUTSIDE BLDG 1 (SERVES BLDG 5)	43.0	70				208/3, 3W									E		1	(3) #6 + (1) #10	
BC-5-1	BRANCH CONTROLLER	BLDG 1	1.6	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
ERV-2-1	ENERGY RECOVERY VENTILATOR	BLDG 2	10.4	20			1.0	208/1, 2W									E		3/4	(2) #12 + (1) #12	
AH-2-12A	AIR HANDLER	BLDG 2	5.63	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	PROVIDE 120V CIRCUIT FOR CONDENSING PUMP
AH-2-12B	AIR HANDLER	BLDG 2	4.13	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	PROVIDE 120V CIRCUIT FOR CONDENSING PUMP
AH-2-12C	AIR HANDLER	BLDG 2	5.63	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	PROVIDE 120V CIRCUIT FOR CONDENSING PUMP
FC-2-213	FAN COIL	BLDG 2	-	-				-									E		3/4	(2) #12 + (1) #12	INDOOR UNIT POWERED BY OUTDOOR UNIT. PROVIDE 120V CIRCUIT FOR CONDENSING PUMP.
FC-2-204	FAN COIL	BLDG 2	-	-				-									E		3/4	(2) #12 + (1) #12	INDOOR UNIT POWERED BY OUTDOOR UNIT. PROVIDE 120V CIRCUIT FOR CONDENSING PUMP.
FC-MU-12	FAN COIL	BLDG 2	-	-				-									E		3/4	(2) #8 + (1) #10	INDOOR UNIT POWERED BY OUTDOOR UNIT. PROVIDE 120V CIRCUIT FOR CONDENSING PUMP
HP-2-12A	HEAT PUMP	BLDG 2	29.0	40				208/1, 2W									E		3/4	(2) #8 + (1) #10	
HP-2-12B	HEAT PUMP	BLDG 2	29.0	40				208/1, 2W									E		3/4	(2) #8 + (1) #10	
HP-2-12C	HEAT PUMP	BLDG 2	29.0	40				208/1, 2W									E		3/4	(2) #8 + (1) #10	
HP-2-213	HEAT PUMP	BLDG 2	11.0	30				208/1, 2W									E		3/4	(2) #12 + (1) #12	
HP-2-204	HEAT PUMP	BLDG 2	11.0	30				208/1, 2W									E		3/4	(2) #12 + (1) #12	
HP-MU-12	FAN COIL	BLDG 2	25.0	35				208/1, 2W									E		3/4	(2) #8 + (1) #10	
ERV-5-1	ENERGY RECOVERY VENTILATOR	BLDG 5	5.2	20			0.5	208/1, 2W		VHP-5-1							E		3/4	(2) #12 + (1) #12	
IU-5-521	VRF INDOOR FAN COIL	BLDG 5	0.25	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-5-522	VRF INDOOR FAN COIL	BLDG 5	0.35	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-5-520	VRF INDOOR FAN COIL	BLDG 5	0.33	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-5-513	VRF INDOOR FAN COIL	BLDG 5	2.13	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-5-514	VRF INDOOR FAN COIL	BLDG 5	2.88	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-5-512	VRF INDOOR FAN COIL	BLDG 5	0.33	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-5-508	VRF INDOOR FAN COIL	BLDG 5	0.25	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-5-505	VRF INDOOR FAN COIL	BLDG 5	0.25	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-5-507	VRF INDOOR FAN COIL	BLDG 5	0.25	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-5-510	VRF INDOOR FAN COIL	BLDG 5	-	-				-									E		3/4	(2) #12 + (1) #12	INDOOR UNIT POWERED BY OUTDOOR UNIT.
OU-5-510	VRF INDOOR FAN COIL	BLDG 5	11.0	30				208/1, 2W									E		3/4	(2) #12 + (1) #12	
WH-5-506	WATER HEATER	BLDG 5	17.9	20			3.1	208/1, 2W									E		3/4	(2) #10 + (1) #10	
WH-5-516	WATER HEATER	BLDG 5	17.9	20			3.1	208/1, 2W									E		3/4	(2) #10 + (1) #10	
WH-5-522	WATER HEATER	BLDG 5	17.9	20			3.1	208/1, 2W									E		3/4	(2) #10 + (1) #10	
WH-5-525	WATER HEATER	BLDG 5	17.9	20			3.1	208/1, 2W									E		3/4	(2) #10 + (1) #10	
ERV-7-1	ENERGY RECOVERY VENTILATOR	BLDG 7	4.3	20			0.2	208/1, 2W									E		3/4	(2) #12 + (1) #12	
HP-7-1	HEAT PUMP	BLDG 7	29.0	40				208/1, 2W									E		3/4	(2) #8 + (1) #10	
IU-7-704	VRF INDOOR FAN COIL	BLDG 7	0.28	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-7-706	VRF INDOOR FAN COIL	BLDG 7	0.28	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
IU-7-707	VRF INDOOR FAN COIL	BLDG 7	0.25	20				208/1, 2W									E		3/4	(2) #12 + (1) #12	
EF-7-702	EXHAUST FAN	BLDG 7	1.3	20			0.128	120/1, 2W													

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		
		E	FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR			OL	OVERLOAD RELAY		
CMCP	COMBINATION MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR	EMS	ENERGY MANAGEMENT SYSTEM	MCA	MINIMUM CIRCUIT AMPS	PL	LED PILOT LIGHT RED ON, GREEN OFF	SS	ELECTRONIC SOFT STARTER
				MOCP	MAXIMUM OVER CURRENT PROTECTION	PS	START/STOP PUSH BUTTON	TS	TIME SWITCH
CMFS	COMBINATION MOTOR STARTER WITH FUSED SWITCH	EPO	EMERGENCY POWER OFF BUTTON	MAN	MANUAL STARTER (<10HP)	SD	SMOKE DETECTOR	VFD	VARIABLE FREQUENCY DRIVE
		FA	FIRE ALARM	MS	MAGNETIC STARTER	SM	ON/OFF TOGGLE DISCONNECT @ MOTOR	WP	WEATHERPROOF

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. ALL MECHANICAL UNITS SHALL BE FUSED PER MOCP VALUES SHOWN ON MECHANICAL SCHEDULES. SEE MECHANICAL DRAWINGS.

FILE LOCATION: C:\Users\116503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWGs\Rio Vista\Inc 1\2347.50 - RV - 1E000 - General Information.dwg
LAST SAVED ON: 4/10/24 at 7:13pm. PLOTTED ON: 4/10/24 at 8:15pm
DATE PLOTTED:
FILE LOCATION:

AGENCY APPROVAL

196
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PROFESSIONAL STAMP

REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
SCHEDULES

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E003

DATE: DECEMBER 06, 2023

PANEL MB1

VOLTAGE: 480/277 V
PHASE/WIRE: 3 PH 4W
MAIN AMPS: 125 A
BUS AMPS: 125 A
AIC RATING 25000 A
MOUNTING: SURFACE
BUSSING: TIN-PLATED COPPER
LOCATION: BLDG 1

PHASE A: 15022 VA
PHASE B: 15022 VA
PHASE C: 15022 VA
CONNECTED: 45066 VA 54.2 A
DEMAND: 50055 VA 60.2 A

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT	CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
		A	6651	LM		1	2		M	6651	A		
4	AC-MU-1	B	6651	LM	45/3	3	4	45/3	M	6651	B	AC-MU-2	
		C	6651	LM		5	6		M	6651	C		
		A	860	M		7	8		M	860	A		
	PE-MU-1	B	860	M	20/3	9	10	20/3	M	860	B	PE-MU-2	
		C	860	M		11	12		M	860	C		
	SPACE	A				13	14				A	SPACE	
	SPACE	B				15	16				B	SPACE	
	SPACE	C				17	18				C	SPACE	
	SPACE	A				19	20				A	SPACE	

GENERAL NOTES
a. PANEL MB1 FED FROM DP3.
b.
c.
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SCHEDULE NOTES
1.
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5.
6.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	0.00	0.00	0.00	100%	0.00
L	LIGHTING	0.00	0.00	0.00	125%	0.00
R	RECEPTACLES	0.00	0.00	0.00	100%/50%	0.00
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	0.00	0.00	0.00	100%	0.00
M	MOTORS	25.11	0.00	25.11	100%	25.11
LM	LARGEST MOTOR	19.95	0.00	19.95	125%	24.94
WH	WATER HEATER	0.00	0.00	0.00	125%	0.00
C	CONTINUOUS	0.00	0.00	0.00	125%	0.00

PANEL MB1A

VOLTAGE: 208/120 V
PHASE/WIRE: 3 PH 4W
MAIN AMPS: 125 A
BUS AMPS: 125 A
AIC RATING 10000 A
MOUNTING: SURFACE
BUSSING: TIN-PLATED COPPER
LOCATION: BLDG 1

PHASE A: 6137 VA
PHASE B: 5097 VA
PHASE C: 5431 VA
CONNECTED: 16666 VA 46.3 A
DEMAND: 19964 VA 55.5 A

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT	CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
	OUTDOOR REC	A	540	R	20/1	1	2		LM	4131	A		
	DOOR ACTUATOR	B	800	G	20/1	3	4	70/3	LM	4131	B	VHP-5-1	
	SPARE	C			20/1	5	6		LM	4131	C		
	SPARE	A			20/1	7	8	20/2	M	166	A	BC-5-1	
	SPARE	B			20/1	9	10		M	166	B		
	SPARE	C			20/1	11	12	20/2	R	1300	C	L6-20R IDF	1
	SPARE	A			20/1	13	14		R	1300	A		1
	SPARE	B			20/1	15	16	20/1			B	SPARE	
	SPARE	C			20/1	17	18	20/1			C	SPARE	
	SPARE	A			20/1	19	20	20/1			A	SPARE	
	SPARE	B			20/1	21	22	20/1			B	SPARE	
	SPARE	C			20/1	23	24	20/1			C	SPARE	
	SPARE	A			20/1	25	26	20/1			A	SPARE	
	SPARE	B			20/1	27	28	20/1			B	SPARE	
	SPARE	C			20/1	29	30	20/1			C	SPARE	
	SPARE	A			20/1	31	32	20/1			A	SPARE	
	SPARE	B			20/1	33	34	20/1			B	SPARE	
	SPARE	C			20/1	35	36	20/1			C	SPARE	
	SPARE	A			20/1	37	38	20/1			A	SPARE	
	SPARE	B			20/1	39	40	20/1			B	SPARE	
	SPARE	C			20/1	41	42	20/1			C	SPARE	

GENERAL NOTES
a. PANEL MB1A FED FROM DPC.
b.
c.
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f.

SCHEDULE NOTES
1. ESTIMATED LOAD SHOWN ONLY. VERIFY FINAL LOCATION OF CIRCUITS PRIOR TO COMMENCEMENT OF WORK.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	0.00	0.00	0.00	100%	0.00
L	LIGHTING	0.00	0.00	0.00	125%	0.00
R	RECEPTACLES	3.14	0.00	3.14	100%/50%	3.14
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	0.00	0.00	0.00	100%	0.00
M	MOTORS	0.33	0.00	0.33	100%	0.33
LM	LARGEST MOTOR	12.39	0.00	12.39	125%	15.49
WH	WATER HEATER	0.00	0.00	0.00	125%	0.00
C	CONTINUOUS	0.80	0.00	0.80	125%	1.00

(E)PANEL CB2A

VOLTAGE: 208/120 V
PHASE/WIRE: 3 PH 4W
MAIN AMPS: 225 A
BUS AMPS: 225 A
AIC RATING 10000 A
MOUNTING: SURFACE
BUSSING: TIN-PLATED COPPER
LOCATION: BLDG 2

PHASE A: 6110 VA
PHASE B: 4220 VA
PHASE C: 4470 VA
CONNECTED: 14800 VA 41.1 A
DEMAND: 14395 VA 40 A

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT	CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
	REC	A	900	R	20/1	1	2	20/1	R	540	A	CR REC	
	REC	B	360	R	20/1	3	4	20/1	R	540	B	CR REC	
	SPARE	C			20/1	5	6	20/1	R	720	C	CR REC	
	CR/OFC REC	A	720	R	20/1	7	8	20/1	R	720	A	CR REC	
	BR/OFC REC	B	540	R	20/1	9	10	20/1	R	720	B	COMPUTER RM REC	
	BR CNTR REC	C	360	R	20/1	11	12	20/1	R	720	C	COMPUTER RM REC	
	REC	A	720	R	20/1	13	14	20/1			A	SPARE	
	SPARE	B			20/1	15	16	20/1			B	SPARE	
	CNTR REC	C	360	R	20/1	17	18	20/2	R	1300	C	L6-20R IDF	1
	CNTR REC	A	360	R	20/1	19	20		R	1300	A		1
	CNTR REC	B	540	R	20/1	21	22	20/1	R	360	B	CONNECTRAC FLOOR	
	CNTR REC	C	360	R	20/1	23	24	20/1			C	SPARE	
	LTG	A	800	L	20/1	25	26	20/1			A	SPARE	
	LTG	B	860	L	20/1	27	28	20/1			B	SPARE	
	LTG	C	650	L	20/1	29	30	20/1			C	SPARE	
	EXIT SIGNS	A	50	L	20/1	31	32	20/1			A	SPARE	
2	(R)BPS#2	B	300	C	20/1	33	34	20/1			B	SPARE	
	SPARE	C			20/1	35	36	20/1			C	SPARE	
	SPARE	A			20/1	37	38	20/1			A	SPARE	
	SPARE	B			20/1	39	40	20/1			B	SPARE	
	SPARE	C			20/1	41	42	20/1			C	SPARE	

GENERAL NOTES
a.
b.
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SCHEDULE NOTES
1. ESTIMATED LOAD SHOWN ONLY. VERIFY FINAL LOCATION OF CIRCUITS PRIOR TO COMMENCEMENT OF WORK.
2. PROVIDE RED CIRCUIT BREAKER LOCKOUT FOR FA CKT.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	0.00	0.00	0.00	100%	0.00
L	LIGHTING	2.36	0.00	2.36	125%	2.95
R	RECEPTACLES	12.14	0.00	12.14	100%/50%	11.07
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	0.00	0.00	0.00	100%	0.00
M	MOTORS	0.00	0.00	0.00	100%	0.00
LM	LARGEST MOTOR	0.00	0.00	0.00	125%	0.00
WH	WATER HEATER	0.00	0.00	0.00	125%	0.00
C	CONTINUOUS	0.30	0.00	0.30	125%	0.38

(E)PANEL CB2B

VOLTAGE: 208/120 V
PHASE/WIRE: 3 PH 4W
MAIN AMPS: 225 A
BUS AMPS: 225 A
AIC RATING 10000 A
MOUNTING: SURFACE
BUSSING: TIN-PLATED COPPER
LOCATION: BLDG 2

PHASE A: 13167 VA
PHASE B: 9479 VA
PHASE C: 9830 VA
CONNECTED: 32476 VA 90.2 A
DEMAND: 34889 VA 96.9 A

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT	CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
	HP-2-12A	A	2412.8	LM	40/2	1	2	40/2	M	2412.8	A	HP-2-12B	
		B	2412.8	LM		3	4		M	2412.8	B		
	HP-2-12C	C	2412.8	LM	40/2	5	6	20/2	M	866	C	ERV-2-1	
		A	2412.8	LM		7	8		M	866	A		
	AH-2-12A	B	341.12	M	20/2	9	10	30/2	M	915.2	B	HP-2-213	
		C	341.12	M		11	12		M	915.2	C		
	AH-2-12B	A	341.12	M	20/2	13	14	20/2	M	341.12	A	AH-2-12C	
		B	341.12	M		15	16		M	341.12	B		
	HP-MU-12	C	2080	M	35/2	17	18	20/2	R	500	C	L6-20R IDF	
		A	2080	M		19	20		M	500	A		
	CONDENS PUMP	B	900	M	20/1	21	22	30/2	M	915.2	B	HP-2-204	
	CONDENS PUMP	C	900	M	20/1	23	24		M	915.2	C		
	CONDENS PUMP	A	900	M	20/1	25	26	20/1			A	SPARE	
	CONDENS PUMP	B	900	M	20/1	27	28	20/1			B	SPARE	
	CONDENS PUMP	C	900	M	20/1	29	30	20/1			C	SPARE	
	CONDENS PUMP	A	900	M	20/1	31	32	20/1			A	SPARE	
	SPARE	B			20/1	33	34	20/1			B	SPARE	
	SPARE	C			20/1	35	36	20/1			C	SPARE	
	SPARE	A			20/1	37	38	20/1			A	SPARE	
	SPARE	B			20/1	39	40	20/1			B	SPARE	
	SPARE	C			20/1	41	42	20/1			C	SPARE	

GENERAL NOTES
a.
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SCHEDULE NOTES
1. ESTIMATED LOAD SHOWN ONLY. VERIFY FINAL LOCATION OF CIRCUITS PRIOR TO COMMENCEMENT OF WORK.
2. PROVIDE RED CIRCUIT BREAKER LOCKOUT FOR FA CKT.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	0.00	0.00	0.00	100%	0.00
L	LIGHTING	0.00	0.00	0.00	125%	0.00
R	RECEPTACLES	1.00	0.00	1.00	100%/50%	1.00
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	0.00	0.00	0.00	100%	0.00
M	MOTORS	21.83	0.00	21.83	100%	21.83
LM	LARGEST MOTOR	9.65	0.00	9.65	125%	12.06
WH	WATER HEATER	0.00	0.00	0.00	125%	0.00
C	CONTINUOUS	0.00	0.00	0.00	125%	0.00

(E)PANEL CSP1

VOLTAGE: 208/120 V
PHASE/WIRE: 3 PH 4W
MAIN AMPS: 200 A
BUS AMPS: 225 A
AIC RATING 10000 A
MOUNTING: SURFACE
BUSSING: TIN-PLATED COPPER
LOCATION: BLDG 5

PHASE A: 11780 VA
PHASE B: 8480 VA
PHASE C: 7780 VA
CONNECTED: 28040 VA 77.9 A
DEMAND: 21495 VA 59.7 A

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT	CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
	REC	A	1080	R	20/1	1	2	20/1	R	1080	A	TRAINING REC	
	REC	B	900	R	20/1	3	4	20/1	R	1080	B	TRAINING REC	
	(R)TIME CLOCK	C	300	L	20/1	5	6	20/1	R	720	C	TRAINING REC	
	OFC REC	A	1080	R	20/1	7	8	20/1	R	1080	A	TRAINING REC	
	MECH SERVICE REC	B	900	R	20/1	9	10	20/1	R	1080	B	TRAINING REC	
	MECH SERVICE REC	C	720	R	20/1	11	12	20/1	R	900	C	OFC REC	
	OFC REC	A	900	R	20/1	13	14	20/1	R	540	A	OFC REC	
	REC	B	900	R	20/1	15	16	20/1	R	900	B	TRAINING REC	
	OFC RECEPT REC	C	720	R	20/1	17	18	20/1			C	SPARE	
	OFC RECEPT REC	A	1080	R	20/1	19	20	20/1			A	SPARE	
	UTIL REC	B	540	R	20/1	21	22	20/1			B	SPARE	
	OFC REC	C	720	R	20/1	23	24	20/2	R	1300	C	L6-20R IDF	1
	OFC REC	A	900	R	20/1	25	26		R	1300	A		1
	LTG	B	600	L	20/1	27	28	20/1	C	300	B	(E)FACP	2
	LTG	C	550	L	20/1	29	30	20/2	R	1300	C	L6-20R IDF	1
	LTG	A	600	L	20/1	31	32		R	1300	A		1
	LTG	B	600	L	20/1	33	34	20/1	R	500	B	DED. CKT-MDF RCK	1
	EXIT SIGNS	C	50	L	20/1	35	36	20/1	R	500	C	DED. CKT-MDF RCK	1
	REC	A	540	R	20/1	37	38	20/1	C	300	A	DED. CKT-IAC PNL	
	SPARE	B			20/1	39	40	20/1			B	SPARE	
	SPARE	C			20/1	41	42	20/1			C	SPARE	

GENERAL NOTES
a.
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SCHEDULE NOTES
1. ESTIMATED LOAD SHOWN ONLY. VERIFY EXACT EQPT LOAD BASED ON FINAL EQPT SELECTION.
2. PROVIDE RED CIRCUIT BREAKER LOCKOUT FOR FA CKT.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	0.00	0.00	0.00	100%	0.00
L	LIGHTING	2.70	0.00	2.70	125%	3.38
R	RECEPTACLES	24.74	0.00	24.74	100%/50%	17.37
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	0.00	0.00	0.00	100%	0.00
M	MOTORS	0.00	0.00	0.00	100%	0.00
LM	LARGEST MOTOR	0.00	0.00	0.00	125%	0.00
WH	WATER HEATER	0.00	0.00	0.00	125%	0.00
C	CONTINUOUS	0.60	0.00	0.60	125%	0.75

(E)PANEL NA

VOLTAGE: 208/120 V
PHASE/WIRE: 3 PH 4W
MAIN AMPS: MLO
BUS AMPS: 100 A
AIC RATING 10000 A
MOUNTING: SURFACE
BUSSING: TIN-PLATED COPPER
LOCATION: BLDG 5

PHASE A: 6216 VA
PHASE B: 8531 VA
PHASE C: 4785 VA
CONNECTED: 19532 VA 54.3 A
DEMAND: 19748 VA 54.9 A

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT	CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
	OU-5-510 (OU FEEDS IU 5-510)	A	998.4	M	30/2	1	2	20/2	LM	432.64	A	ERV-5-1	
		B	998.4	M		3	4		LM	432.64	B		
	IU-5-514/512/508/510 505/507	C	315	M	20/2	5	6	20/2	LM	470	C	IU-5-521/522/520/513	
		A	315	M		7	8		M	470	A		
	WH-5-506	B	1550	H	20/2	9	10	20/2	H	1550	B	WH-5-516	
		C	1550	H		11	12		H	1550	C		
	WH-5-525	A	1550	H	20/2	13	14	20/2	H	1550	A	WH-5-522	
		B	1550	H		15	16		H	1550	B		
	SPARE	C			20/1	17	18	20/1	R	900	C	COPIER	
	SPARE	A			20/1	19	20	20/1	R	900	A	COPIER	
	SPARE	B			20/1	21	22	20/1	R	900	B	FRIDGE	
	SPARE	C			20/1	23	24	20/1			C	SPARE	
	SPARE	A			20/1	25	26	20/1			A	SPARE	
	SPARE	B			20/1	27	28	20/1			B	SPARE	
	SPARE	C			20/1	29	30	20/1			C	SPARE	
	SPARE	A			20/1	31	32	20/1			A	SPARE	
	SPARE	B			20/1	33	34	20/1			B	SPARE	
	SPARE	C			20/1	35	36	20/1			C	SPARE	
	SPARE	A			20/1	37	38	20/1			A	SPARE	
	SPARE	B			20/1	39	40	20/1			B	SPARE	
	SPARE	C			20/1	41	42	20/1			C	SPARE	

GENERAL NOTES
a.
b.
c.
d.
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f.

SCHEDULE NOTES
1. ESTIMATED LOAD SHOWN ONLY. VERIFY EXACT EQPT LOAD BASED ON FINAL EQPT SELECTION.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	0.00	0.00	0.00	100%	0.00
L	LIGHTING	0.00	0.00	0.00	125%	0.00
R	RECEPTACLES	2.70	0.00	2.70	100%/50%	2.70
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	12.40	0.00	12.40	100%	12.40
M	MOTORS	3.57	0.00	3.57	100%	3.57
LM	LARGEST MOTOR	0.87	0.00	0.87	125%	1.08
WH	WATER HEATER	0.00	0.00	0.00	125%	0.00
C	CONTINUOUS	0.00	0.00	0.00	125%	0.00

(E)PANEL NE

VOLTAGE: 208/120 V
PHASE/WIRE: 3 PH 4W
MAIN AMPS: 225 A
BUS AMPS: 225 A
AIC RATING 10000 A
MOUNTING: SURFACE
BUSSING: TIN-PLATED COPPER
LOCATION: BLDG 7

PHASE A: 6893 VA
PHASE B: 8826 VA
PHASE C: 8304 VA
CONNECTED: 24023 VA 66.7 A
DEMAND: 24078 VA 66.9 A

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT	CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
	CR REC	A	360	R	20/1	1	2	20/1	R	900	A	CR REC	
	CR REC	B	360	R	20/1	3	4	20/1	R	720	B	CR REC	
	CR REC	C	360	R	20/1	5	6	20/1	R	1080	C	OFC REC	
	CR REC	A	360	R	20/1	7	8	20/1	R	1080	A	OFC REC	
	REC	B	1080	R	20/1	9	10	20/1	R	720	B	CR REC	
	CR/OFC REC	C	1080	R	20/1	11	12	20/1	R	720	C	CR REC	
	CNTR/RR/CORR REC	A	900	R	20/1	13	14	20/2	R	1300	A	L6-20R IDF	1
	CR/OFC REC	B	1080	R	20/1	15	16		R	1300	B		1
	LTG	C	1000	L	20/1	17	18	20/1	R	360	C	CR REC	
	LTG	A	850	L	20/1	19	20	20/1	R	360	A	CR REC	
	LTG	B	250	L	20/1	21	22	20/1			B	SPARE	
2	(R)BPS#7	C	300	C	20/1	23	24	20/1			C	SPARE	
	EF-7-702	A	125	M	20/1	25	26	20/1			A	SPARE	
	SPARE	B			20/1	27	28	20/1			B	SPARE	
	EXIT SIGNS	C	30	L	20/1	29	30	20/1			C	SPARE	
	IU-7-704/706/707	A	300	M	20/2	31	32	20/1			A	SPARE	
		B	300	M		33	34	20/1			B	SPARE	
	ERV-7-1	C	358	M	20/2	35	36	20/1			C	SPARE	
		A	358	M		37	38	20/1			A	SPARE	
	HP-7-1	B	3016	LM	40/2	39	40	20/1			B	SPARE	
		C	3016	LM		41	42	20/1			C	SPARE	

GENERAL NOTES
a.
b.
c.
d.
e.
f.

SCHEDULE NOTES
1. ESTIMATED LOAD SHOWN ONLY. VERIFY FINAL LOCATION OF CIRCUITS PRIOR TO COMMENCEMENT OF WORK.
2. PROVIDE RED CIRCUIT BREAKER LOCKOUT FOR FA CKT.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	0.00	0.00	0.00	100%	0.00
L	LIGHTING	2.13	0.00	2.13	125%	2.66
R	RECEPTACLES	14.12	0.00	14.12	100%/50%	12.06
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	0.00	0.00	0.00	100%	0.00
M	MOTORS	1.44	0.00	1.44	100%	1.44
LM	LARGEST MOTOR	6.03	0.00	6.03	125%	7.54
WH	WATER HEATER	0.00	0.00	0.00	125%	0.00
C	CONTINUOUS	0.30	0.00	0.30	125%	0.38

AGENCY APPROVAL

196

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PROFESSIONAL STAMP



REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
SCHEDULES

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E004

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWGs\Rio Vista\inc 1\2347.50 - RV - 1E000 - General Information.dwg
LAST SAVED ON: 4/10/24 at 7:13pm, PLOTTED ON: 4/10/24 at 8:16pm
DATE PLOTTED: FILE LOCATION:

GENERAL DEMOLITION NOTES

A. UNLESS OTHERWISE NOTED, 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.

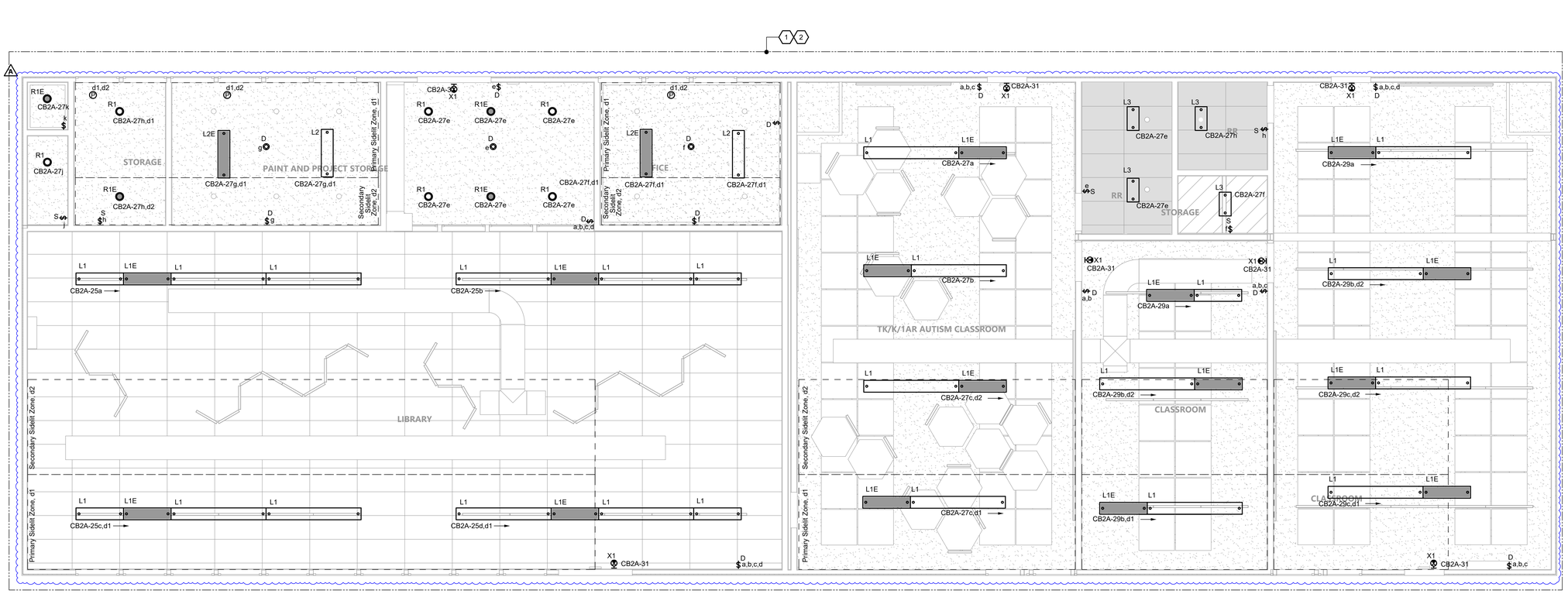
K. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

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.



1 BLDG 2 - LIGHTING PLAN

1/4" = 1'-0"

1996
991 W HEDDING STREET, SUITE 101
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AGENCY APPROVAL

CONSULTANTS

PROFESSIONAL STAMP

REVISIONS

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-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE

LIGHTING PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.

1E201

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWGs\Rio Vista\Inc 1\23477.50 - RV - 1E200 - Lighting Plan.dwg
LAST SAVED ON: 4/10/24 at 7:15pm, PLOTTED ON: 4/10/24 at 8:41pm

DATE PLOTTED:

FILE LOCATION:

GENERAL DEMOLITION NOTES

A. UNLESS OTHERWISE NOTED, 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.

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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.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

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GENERAL NOTES

A. 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.

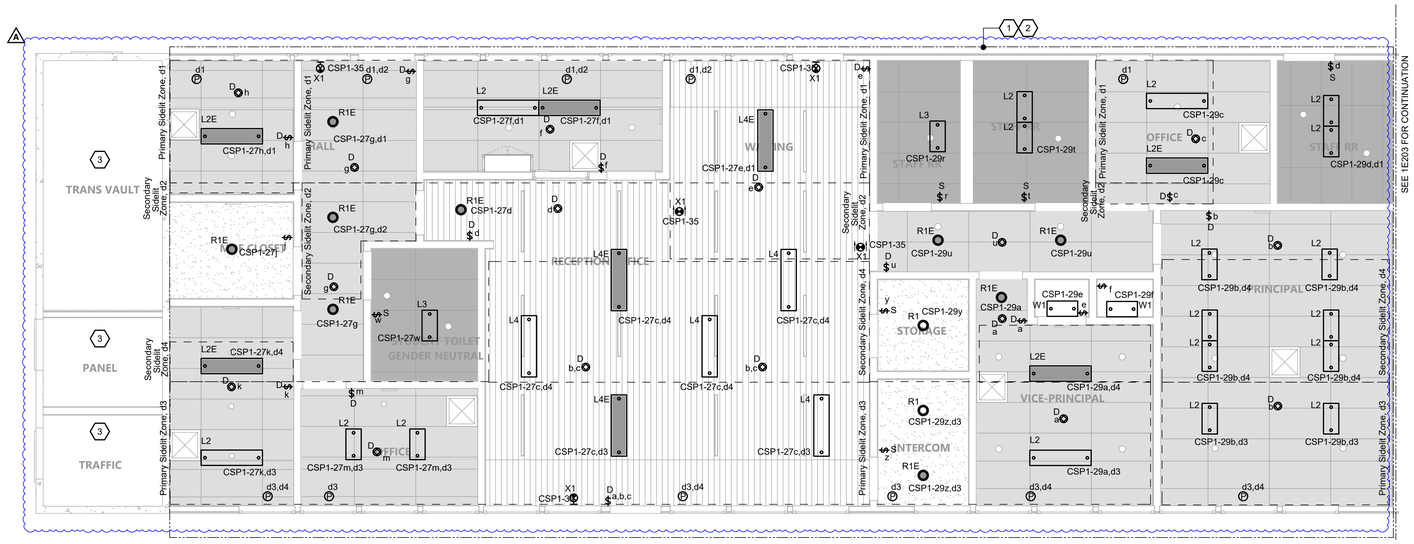
J. SEE SHEET 1E402 FOR LIGHT FIXTURE MOUNTING DETAILS.

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.



1 **BLDG 5 - LIGHTING PLAN**
1/4" = 1'-0"

AGENCY APPROVAL

196

991 W HEDDING STREET, SUITE 101
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TEL (408) 715-4470

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PROFESSIONAL STAMP

REVISIONS

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-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
LIGHTING PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E202

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\18503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\RIo Vista\Inc 1\2347.50 - RV - 1E200 - Lighting Plan.dwg
LAST SAVED ON: 4/10/24 at 7:15pm, PLOTTED ON: 4/10/24 at 8:41pm

DATE PLOTTED:

FILE LOCATION:

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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.

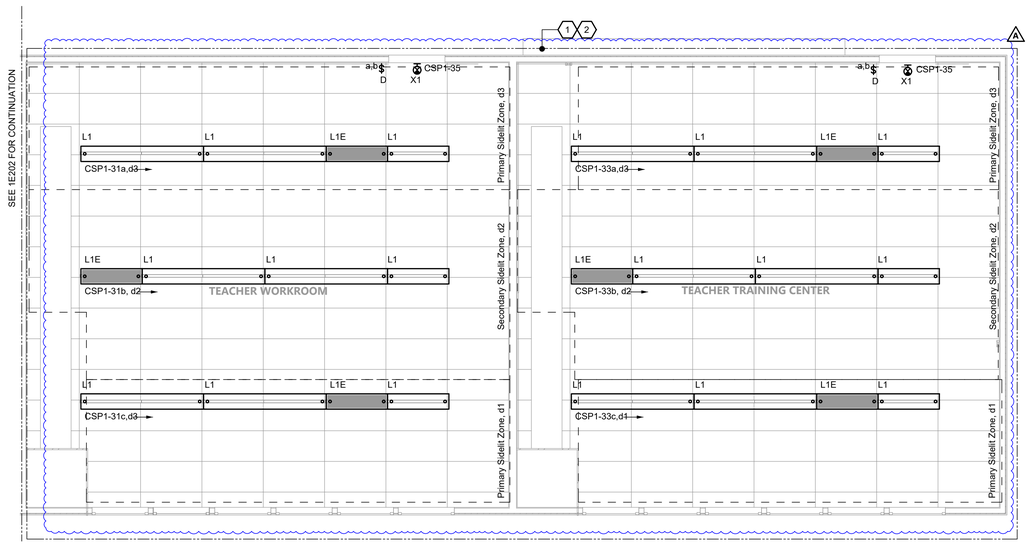
J. SEE SHEET 1E402 FOR LIGHT FIXTURE MOUNTING DETAILS.

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.



1 **BLDG 5 - LIGHTING PLAN**
1/4" = 1'-0"

AGENCY APPROVAL

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Concord, CA 94519

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SHEET TITLE
LIGHTING PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E203

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\18503\OneDrive\Desktop\mt diablo\CAD 041024\05_Drawings\01_DWG\Rio Vista\inc 1\2347.50 - RV - 1E200 - Lighting Plan.dwg
LAST SAVED ON: 4/10/24 at 7:15pm, PLOTTED ON: 4/10/24 at 8:41pm
DATE PLOTTED: FILE LOCATION:

GENERAL DEMOLITION NOTES

A. UNLESS OTHERWISE NOTED, 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.

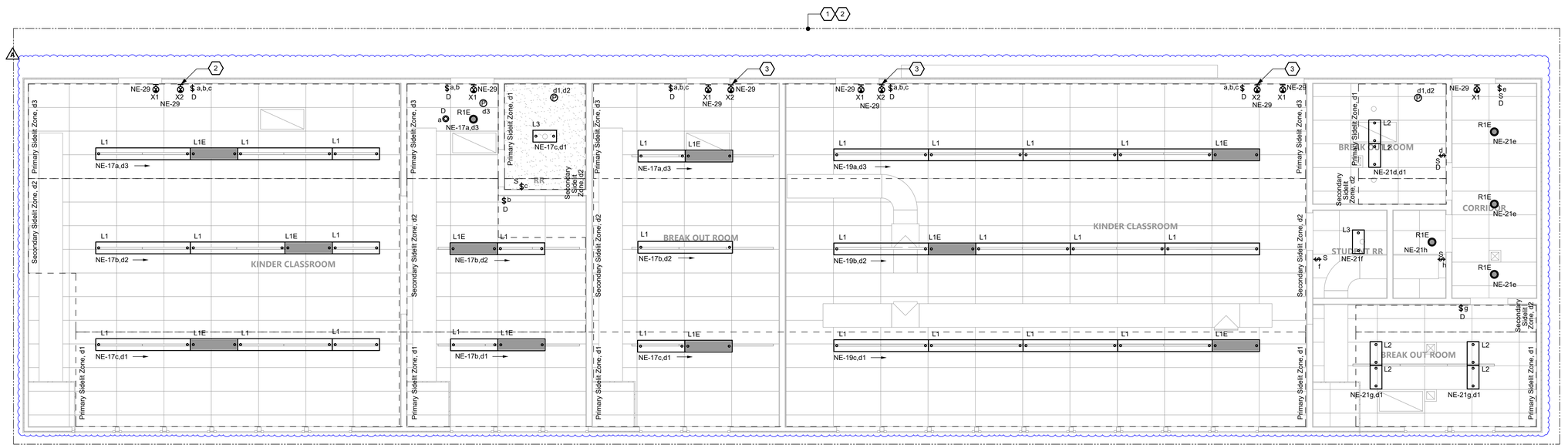
J. SEE SHEET 1E402 FOR LIGHT FIXTURE MOUNTING DETAILS.

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. BOTTOM OF LOW LEVEL EXIT SIGN SHALL BE 6'-8"AFF, LOCATED ADJACENT TO DOOR, AND NO LESS THAN 4" FROM DOOR FRAME. BOTTOM OF LOW LEVEL EXIT SIGN SHALL BE 2'-6"AFF, LOCATED ADJACENT TO DOOR, AND NO LESS THAN 4" FROM DOOR FRAME.



1 **BLDG 7 - LIGHTING PLAN**
1/4" = 1'-0"

AGENCY APPROVAL

196

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

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PROFESSIONAL STAMP

REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
LIGHTING PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E204

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\Rio Vista\Inc 1\2347.50 - RV - 1E200 - Lighting Plan.dwg
LAST SAVED ON: 4/10/24 at 7:15pm, PLOTTED ON: 4/10/24 at 8:42pm

DATE PLOTTED:

FILE LOCATION:

GENERAL DEMOLITION NOTES

A. UNLESS OTHERWISE NOTED, IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

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C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

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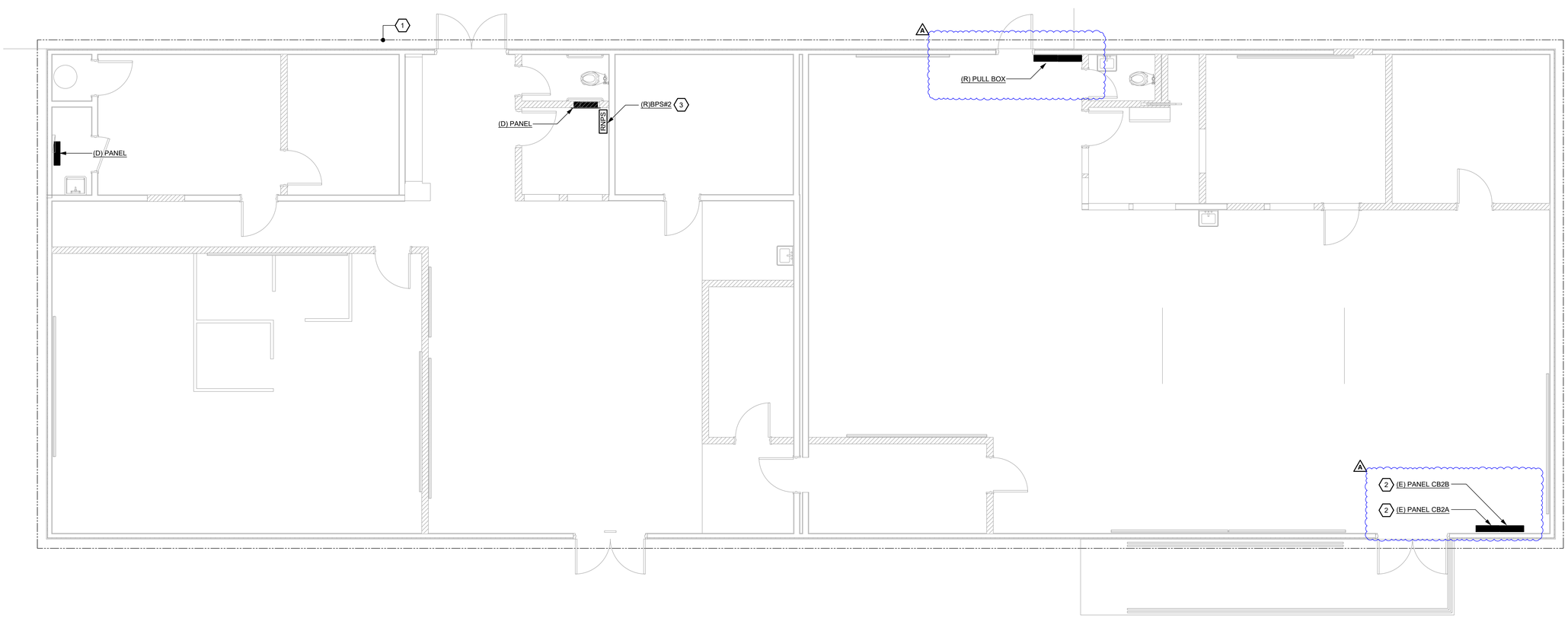
SHEET NOTES

1. REMOVE EXISTING ELECTRICAL DEVICES, UNLESS OTHERWISE NOTED. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING PANEL SHALL REMAIN FOR REUSE. SEE NEW WORK.
3. DISCONNECT AND REINSTALL EXISTING FIRE ALARM BOOSTER POWER SUPPLY PANEL TO NEW, RELOCATED LOCATION.



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

AGENCY APPROVAL

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PROFESSIONAL STAMP

REVISIONS

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-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E300

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\116503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWGs\Rio Vista\Inc 1\2347.50 - RV - 1E300 - Power Plan.dwg
LAST SAVED ON: 4/10/24 at 7:17pm. PLOTTED ON: 4/10/24 at 8:50pm

DATE PLOTTED:

FILE LOCATION:

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

B. SIZE FUSES FOR ALL FUSED SWITCHES PER SUPPLIED EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

C. REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT WIRING, CONDUIT, AND BREAKER SIZES. BREAKER SIZES SHOWN ON PANEL SCHEDULES SUPERSEDES MOCP SIZES SHOWN ON EQUIPMENT SCHEDULE

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.

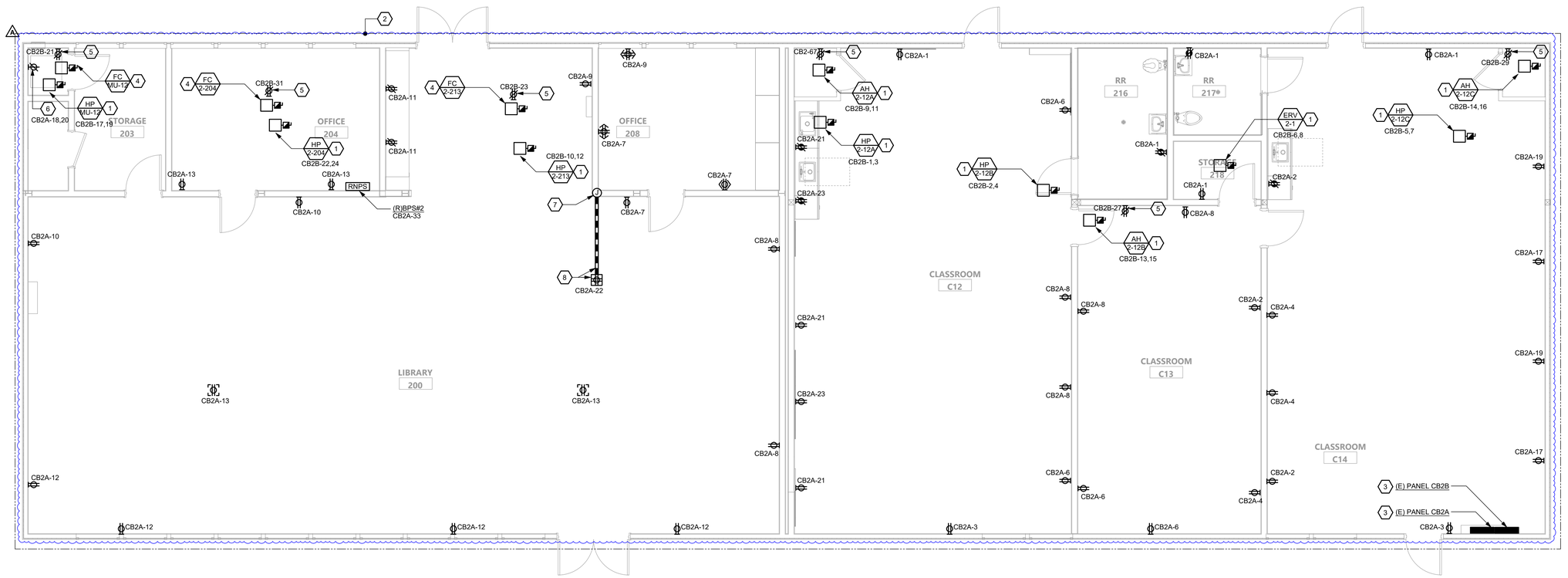
G. EXISTING PANELS SHOWN FOR REFERENCE ONLY AND BASED ON AS BUILT DOCUMENTATION AND PARTIAL SITE SURFACE INVESTIGATION. FIELD VERIFY EXACT PANEL LOCATIONS PRIOR TO COMMENCEMENT OF WORK.

H. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

I. ALL FINISHES SHALL BE WHITE. COORDINATE FINAL FINISHES WITH ARCHITECT.

(#) SHEET NOTES

1. NEW HVAC UNIT, THIS LOCATION. PROVIDE DISCONNECT SWITCH AND CU BRANCH FEEDER FOR NEW HVAC EQUIPMENT.
2. PROVIDE NEW ELECTRICAL DEVICES AS SHOWN ON PLAN.
3. CIRCUITS HOMERUN TO EXISTING PANEL AS INDICATED ON PLAN.
4. INDOOR UNIT POWERED BY OUTDOOR UNIT.
5. FOR CONDENSING PUMP MOUNTED HIGH.
6. L6-20R. PROVIDE DEDICATED 208V 20A CIRCUIT FOR IDF.
7. TRANSITION FROM SURFACE RACEWAY ALONG FLOOR TO CONCEALED CONDUIT IN WALL.
8. CONNECTRAC #CT.XP.1-XX. UNDER-CARPET INSTALLATION. ADA-COMPLIANT. QUADPLEX RECEPTACLE AT FLOOR MOUNT SURFACE RACEWAY.



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

AGENCY APPROVAL

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E301

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\116503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWGs\Rio Vista\Inc 1\2347.50 - RV - 1E300 - Power Plan.dwg
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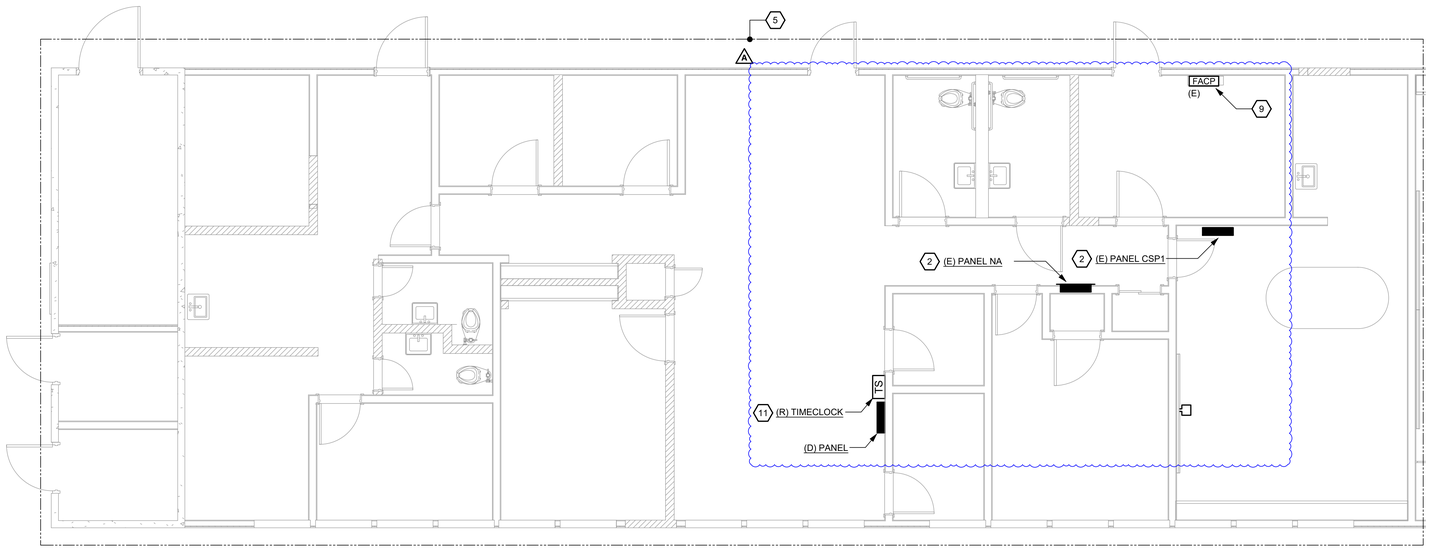
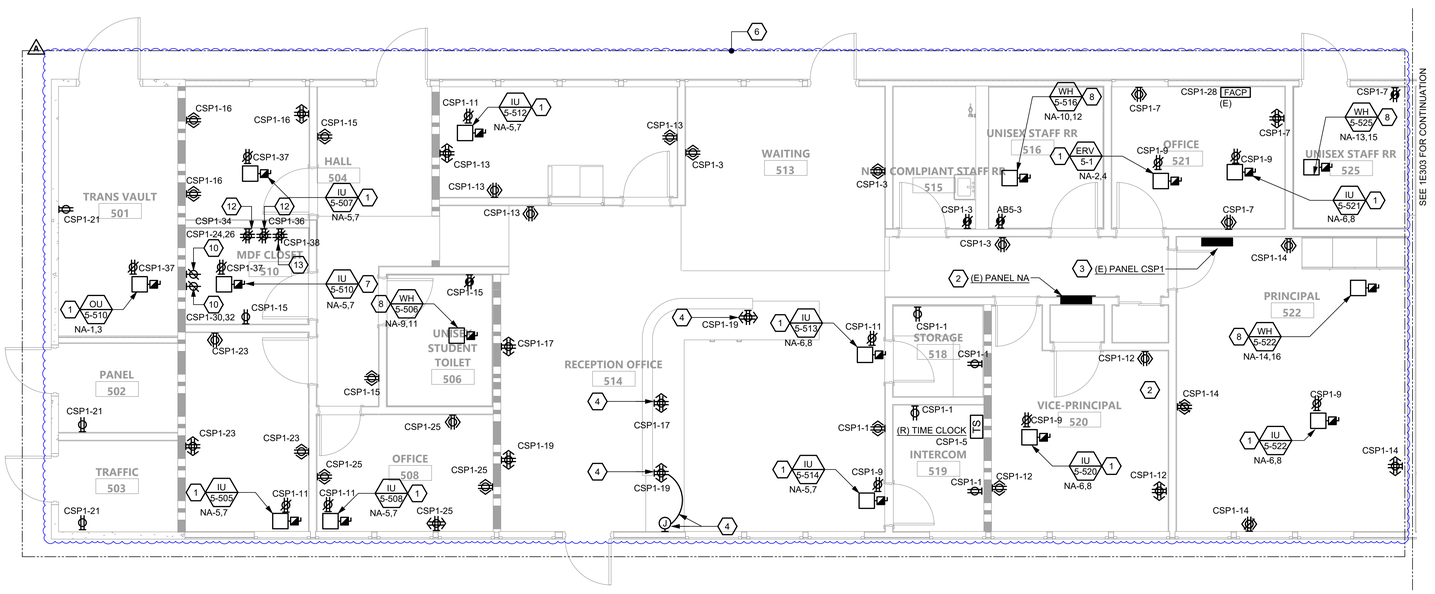


1 BLDG 5 - DEMO POWER & SIGNAL PLAN

1/4" = 1'-0"



2 BLDG 5 - POWER & SIGNAL 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.

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.

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G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

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GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

B. SIZE FUSES FOR ALL FUSED SWITCHES PER SUPPLIED EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

C. REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT WIRING, CONDUIT, AND BREAKER SIZES. BREAKER SIZES SHOWN ON PANEL SCHEDULES SUPERSEDES MOCP SIZES SHOWN ON EQUIPMENT SCHEDULE

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.

G. 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.

H. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

I. ALL FINISHES SHALL BE WHITE. COORDINATE FINAL FINISHES WITH ARCHITECT.

SHEET NOTES

1. NEW HVAC UNIT, THIS LOCATION. PROVIDE DISCONNECT SWITCH AND CU BRANCH FEEDER FOR NEW HVAC EQUIPMENT.
2. EXISTING PANEL SHALL REMAIN FOR REUSE. SEE NEW WORK.
3. CIRCUITS HOMERUN TO EXISTING PANEL AS INDICATED ON PLAN.
4. ROUTE CONCEALED CONDUIT/WIRING FROM CEILING ABOVE. ALONG NEW WALL. TO RECEPTACLES AT CASEWORK. REFER TO ARCHITECTURAL DRAWINGS FOR FURNITURE DETAILS.
5. REMOVE EXISTING ELECTRICAL DEVICES, UNLESS OTHERWISE NOTED. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.
6. PROVIDE NEW ELECTRICAL DEVICES AS SHOWN ON PLAN.
7. INDOOR UNIT POWERED BY OUTDOOR UNIT.
8. NEW WATER HEATER, THIS LOCATION. PROVIDE DISCONNECT SWITCH AND CU BRANCH FEEDER FOR NEW WATER HEATER.
9. EXISTING FACP TO REMAIN-IN-PLACE. SEE NEW PLAN FOR NEW CIRCUIT.
10. L6-20R. PROVIDE DEDICATED 208V 20A CIRCUIT FOR MDF.
11. RELOCATE TIME CLOCK. SEE NEW PLAN FOR NEW CIRCUIT AND NEW LOCATION.
12. PROVIDE DEDICATED CIRCUIT FOR MDF RACK.
13. PROVIDE DEDICATED CIRCUIT FOR IACP PANEL.

AGENCY APPROVAL

1996

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

POWER & SIGNAL PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.

1E302

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\18503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\RioVista\Inc 1\2347.50 - RV - 1E300 - Power Plan.dwg
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GENERAL DEMOLITION NOTES

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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.

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. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

B. SIZE FUSES FOR ALL FUSED SWITCHES PER SUPPLIED EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

C. REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT WIRING, CONDUIT, AND BREAKER SIZES. BREAKER SIZES SHOWN ON PANEL SCHEDULES SUPERSEDES MOCP SIZES SHOWN ON EQUIPMENT SCHEDULE

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.

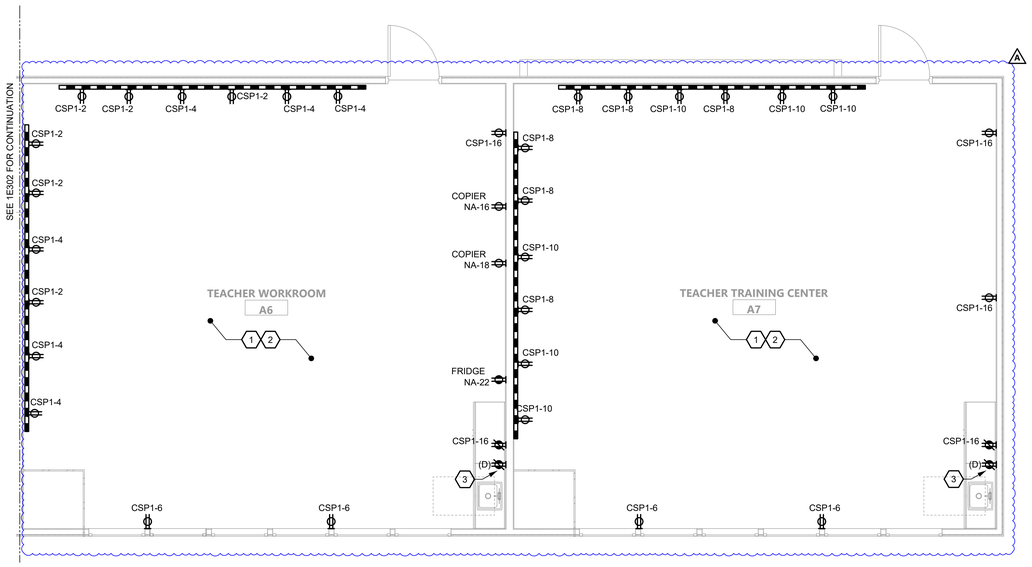
G. EXISTING PANELS SHOWN FOR REFERENCE ONLY AND BASED ON AS BUILT DOCUMENTATION AND PARTIAL SITE SURFACE INVESTIGATION. FIELD VERIFY EXACT PANEL LOCATIONS PRIOR TO COMMENCEMENT OF WORK.

H. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

I. ALL FINISHES SHALL BE WHITE. COORDINATE FINAL FINISHES WITH ARCHITECT.

SHEET NOTES

1. REMOVE EXISTING ELECTRICAL DEVICES AND REPLACE WITH NEW AS SHOWN. NEW CIRCUITS SHOWN ON PLAN HOMERUN TO PANEL AB5, UNLESS OTHERWISE NOTED.
2. 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.
3. REMOVE EXISTING ELECTRICAL DEVICE AND WIRING BACK TO SOURCE.



1 **BLDG 5 - POWER & SIGNAL PLAN**
1/4" = 1'-0"

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DATE PLOTTED:

FILE LOCATION:

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PROFESSIONAL STAMP

REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E303

DATE: DECEMBER 06, 2023

GENERAL DEMOLITION NOTES

A

A. UNLESS OTHERWISE NOTED, IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

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GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

B. SIZE FUSES FOR ALL FUSED SWITCHES PER SUPPLIED EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

C. REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT WIRING, CONDUIT, AND BREAKER SIZES. BREAKER SIZES SHOWN ON PANEL SCHEDULES SUPERSEDES MOCP SIZES SHOWN ON EQUIPMENT SCHEDULE

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.

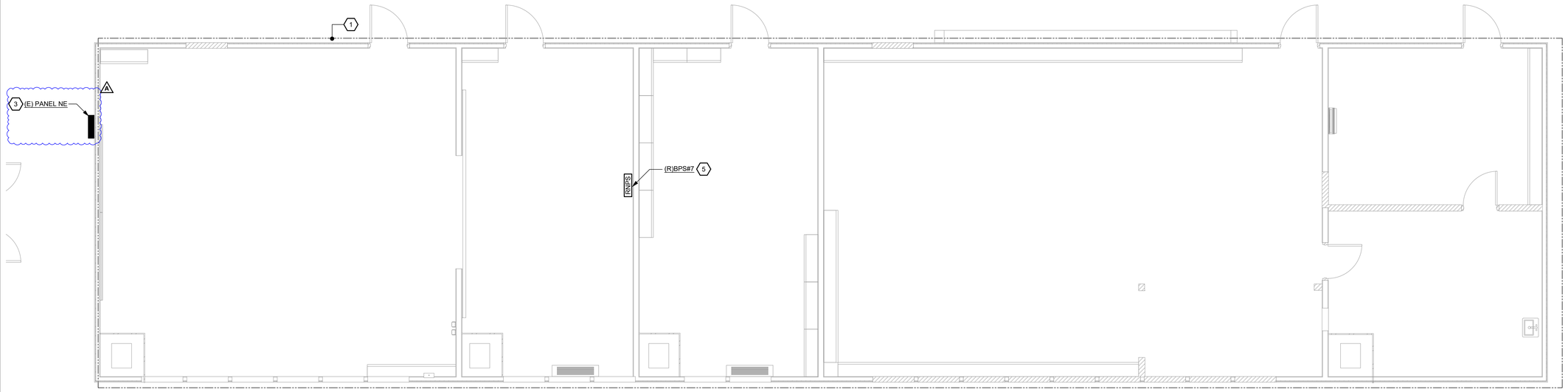
G. EXISTING PANELS SHOWN FOR REFERENCE ONLY AND BASED ON AS BUILT DOCUMENTATION AND PARTIAL SITE SURFACE INVESTIGATION. FIELD VERIFY EXACT PANEL LOCATIONS PRIOR TO COMMENCEMENT OF WORK.

H. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

I. ALL FINISHES SHALL BE WHITE. COORDINATE FINAL FINISHES WITH ARCHITECT.

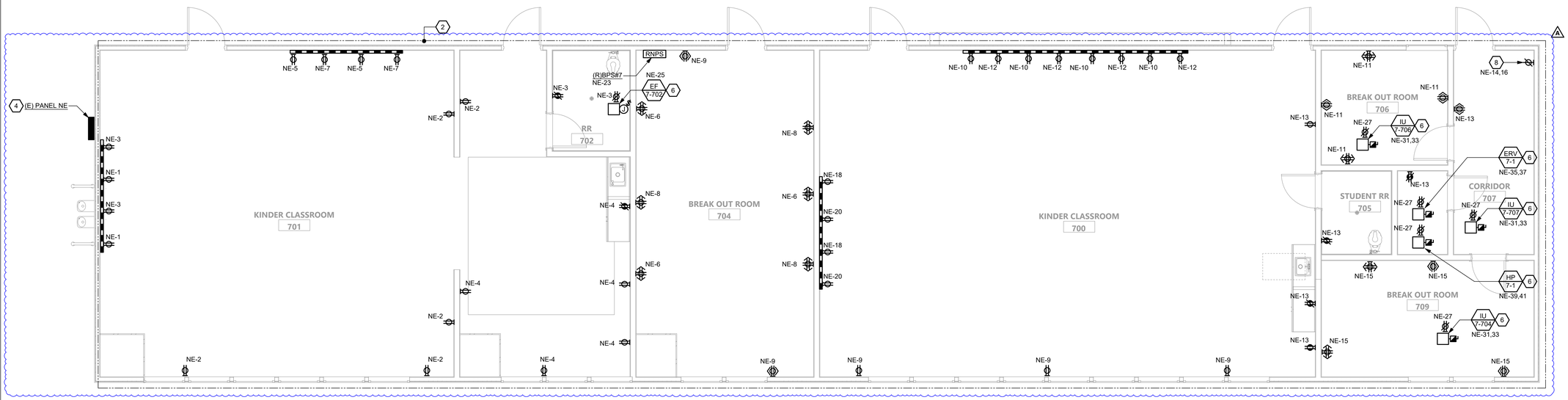
SHEET NOTES

1. REMOVE EXISTING ELECTRICAL DEVICES. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.
2. PROVIDE NEW ELECTRICAL DEVICES FOR POWER AND FIRE ALARM. A
3. EXISTING PANEL TO REMAIN FOR REUSE. SEE NEW WORK.
4. CIRCUITS HOMERUN TO EXISTING PANEL AS INDICATED ON PLAN.
5. PROVIDE NEW CIRCUIT FOR RELOCATED FIRE ALARM BOOSTER POWER SUPPLY PANEL.
6. NEW HVAC UNIT, THIS LOCATION. PROVIDE DISCONNECT SWITCH AND CU BRANCH FEEDER FOR NEW HVAC EQUIPMENT.
7. VERIFY FINAL LOCATION WITH MECHANICAL DRAWINGS.
8. L6-20R. PROVIDE DEDICATED 208V 20A CIRCUIT FOR IDF. A



1 BLDG 7 - DEMO POWER & SIGNAL PLAN

1/4" = 1'-0"



2 BLDG 7 - POWER & SIGNAL PLAN

1/4" = 1'-0"

AGENCY APPROVAL

196

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE

POWER & SIGNAL PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.

1E304

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\Rio Vista\Inc 1\2347.50 - RV - 1E300 - Power Plan.dwg
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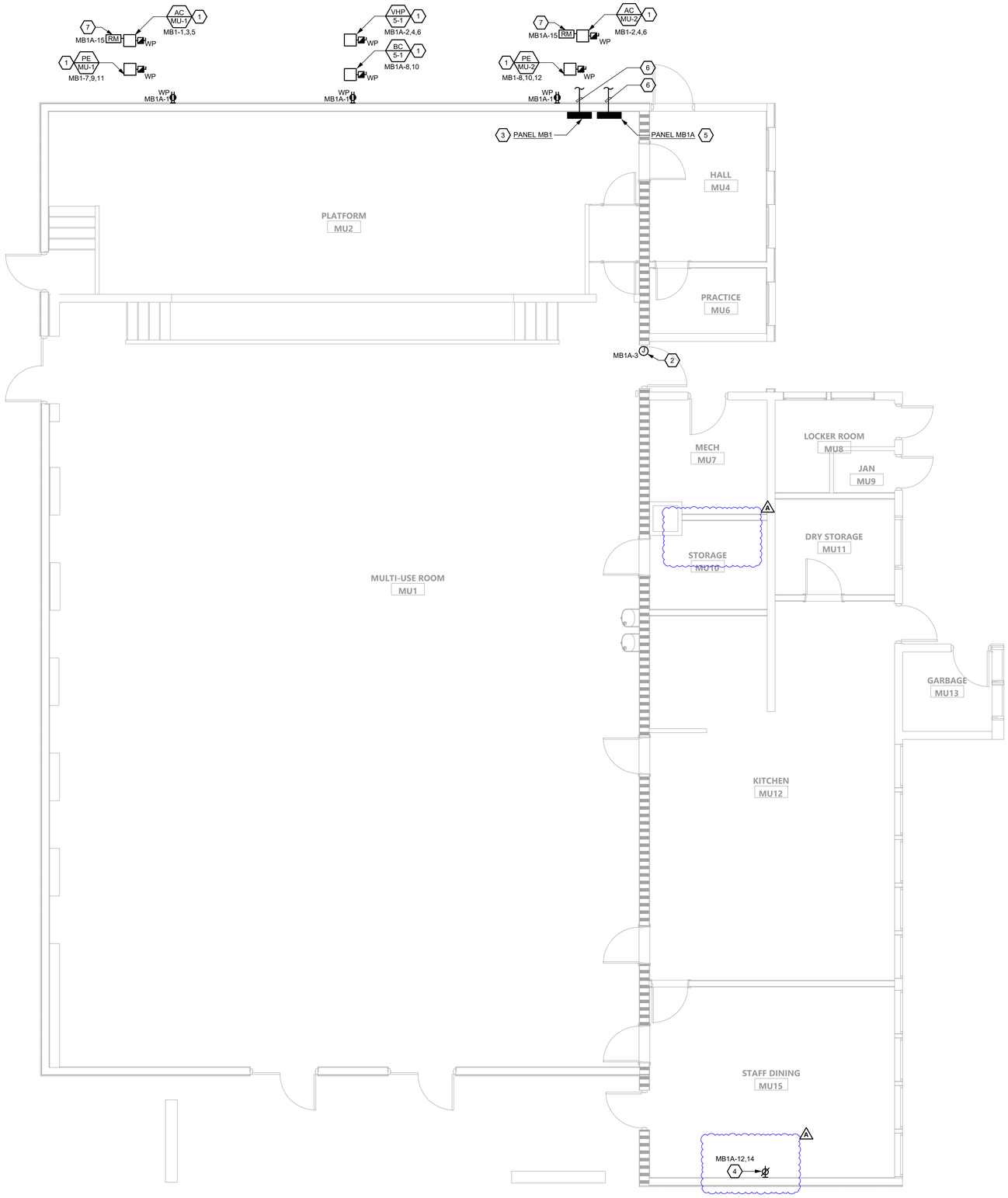

1 **BLDG 1 - POWER & SIGNAL PLAN**
1/4" = 1'-0"

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. BREAKER SIZES SHOWN ON PANEL SCHEDULES SUPERSEDES MOCP SIZES SHOWN ON EQUIPMENT SCHEDULE

E. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES SHALL BE SIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

F. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

G. OUTDOOR ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH NEMA 3R RATED ENCLOSURES.

H. EXISTING PANELS SHOWN FOR REFERENCE ONLY AND BASED ON AS BUILT DOCUMENTATION AND PARTIAL SITE SURFACE INVESTIGATION. FIELD VERIFY EXACT PANEL LOCATIONS PRIOR TO COMMENCEMENT OF WORK.

I. UPDATE PANEL DIRECTORIES IN TYPE-WRITTEN FORMAT UPON COMPLETION OF WORK.

J. ALL FINISHES SHALL BE WHITE. COORDINATE FINAL FINISHES WITH ARCHITECT.

(#) SHEET NOTES

1. NEW HVAC UNIT, THIS LOCATION. PROVIDE DISCONNECT SWITCH AND CU BRANCH FEEDER FOR NEW HVAC EQUIPMENT.
2. DOOR ACTUATOR.
3. PROVIDE NEW PANEL MB1 TO SERVE NEW HVAC EQUIPMENT. SEE PANEL SCHEDULES FOR ADDITIONAL INFORMATION. (A)
4. L6-20R. PROVIDE DEDICATED 208V 20A CIRCUIT FOR IDF.
5. PROVIDE NEW PANEL MB1A TO SERVE NEW CIRCUITS. SEE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. PROVIDE NEW FEEDER FOR NEW PANEL. SEE SITE PLAN, SHEET 1E100, FOR SITE ROUTING AND FEEDER SIZE.
7. PROVIDE 120V CIRCUIT AS REQUIRED FOR FIRE ALARM RELAY MODULE CONNECTED TO SMOKE DUCT DETECTOR.

AGENCY APPROVAL

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
POWER & SIGNAL PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E305

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\Rio Vista\Inc 1\2347.50 - RV - 1E300 - Power Plan.dwg
LAST SAVED ON: 4/10/24 at 7:17pm, PLOTTED ON: 4/10/24 at 8:51pm
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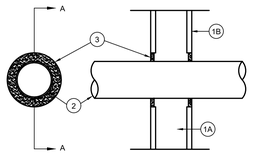


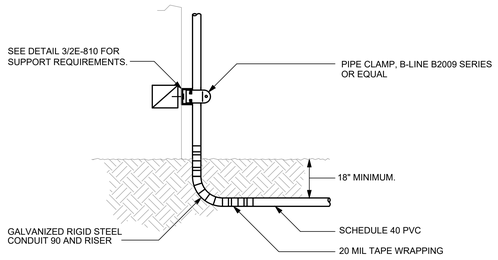
SECTION A-A

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 ½" 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

7 1-HOUR PENETRATION DETAIL

NOT TO SCALE

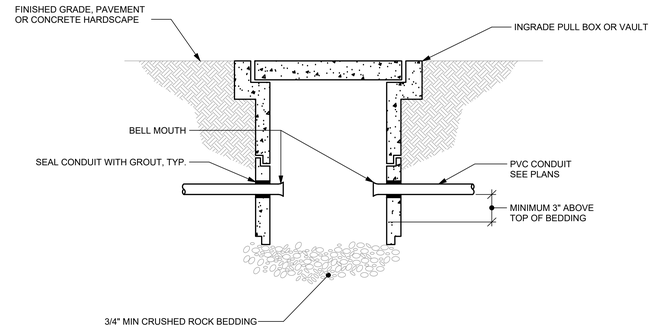


DETAIL NOTES

1. REFER TO DETAIL 3/2E-810 FOR ALL SUPPORT REQUIREMENTS.
2. SOILS ARE KNOWN TO BE CORROSIVE. PVC CONDUIT SHALL BE USED IN UNDERGROUND LOCATIONS, TYP. WHERE GRC CONDUIT IS INDICATED, CONDUIT SHALL BE COMPLETELY WRAPPED WITH 20 MIL PVC TAPE TO PREVENT CORROSION OF CONDUIT.

4 UNDERGROUND CONDUIT RISER

NOT TO SCALE



DETAIL NOTES

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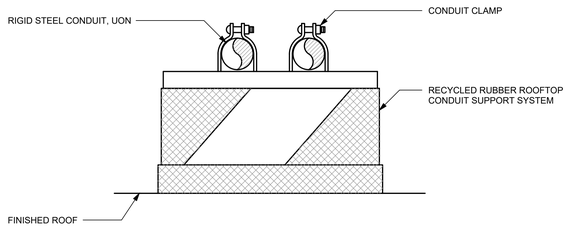
1 INGRADE PULL BOX CONDUIT TERMINATION

NOT TO SCALE

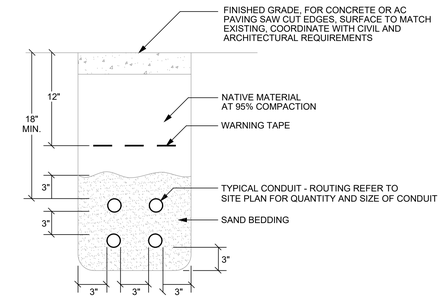


DETAIL NOTES

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"

8 CONDUIT ON RUBBER SUPPORT ON ROOF

NOT TO SCALE

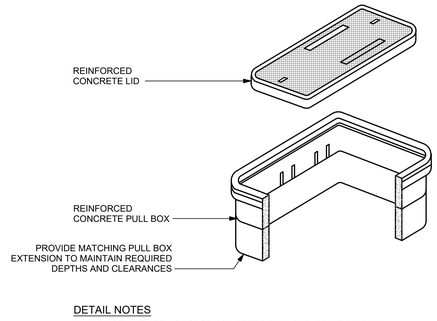


DETAIL NOTES

1. SOILS ARE KNOWN TO BE CORROSIVE. PVC CONDUIT SHALL BE USED IN UNDERGROUND LOCATIONS, TYP. WHERE GRC CONDUIT IS INDICATED, CONDUIT SHALL BE COMPLETELY WRAPPED WITH 20 MIL PVC TAPE TO PREVENT CORROSION OF CONDUIT.

5 CONDUIT IN TRENCH

NOT TO SCALE



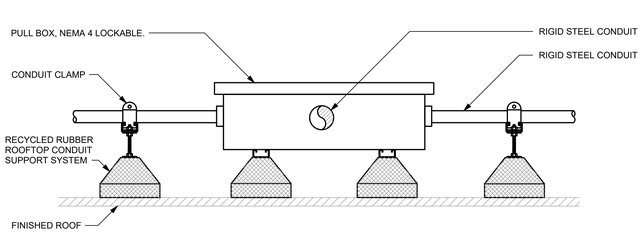
DETAIL NOTES

1. HIGH DENSITY REINFORCED CONCRETE PULL AND JUNCTION BOX WITH END AND SIDE KNOCKOUTS. NON-SETTLING SHOULDERS MAINTAIN GRADE AND FACILITATE BACK FILLING. SIZE PULL BOX PER CODE.
2. PROVIDE MINIMUM OF 6" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.
3. CHRISTY TYPE "N" SERIES PULL BOX WITH "N" SERIES LID UON OR EQUAL.
4. PROVIDE IN NON-TRAFFIC AREAS, UON.

NON-TRAFFIC RATED

2 INGRADE PULL BOX

NOT TO SCALE

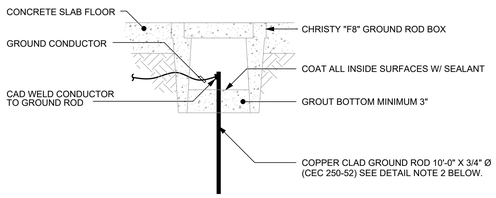


DETAIL NOTES

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.

9 PULL BOX ON BLOCKING ON ROOF

NOT TO SCALE

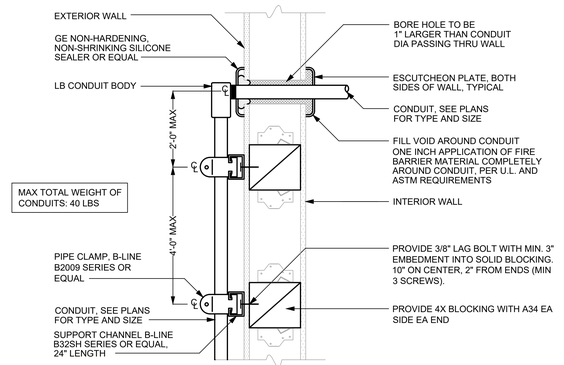


DETAIL NOTES

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-122.
2. CHECK RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS AS REQUIRED. (CEC 250-56)
3. GROUNDING TEST MUST BE BY INDEPENDENT LICENSED ELECTRICAL CONTRACTOR OR TESTING LABORATORY. PROJECT CONTRACTOR IS NOT ELIGIBLE TO RUN TEST.

6 GROUND ROD

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.

3 LB BODY THROUGH EXTERIOR WALL

NOT TO SCALE

AGENCY APPROVAL

1906

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

CONSULTANTS

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE

GENERAL INFORMATION

INCREMENT: INC.1

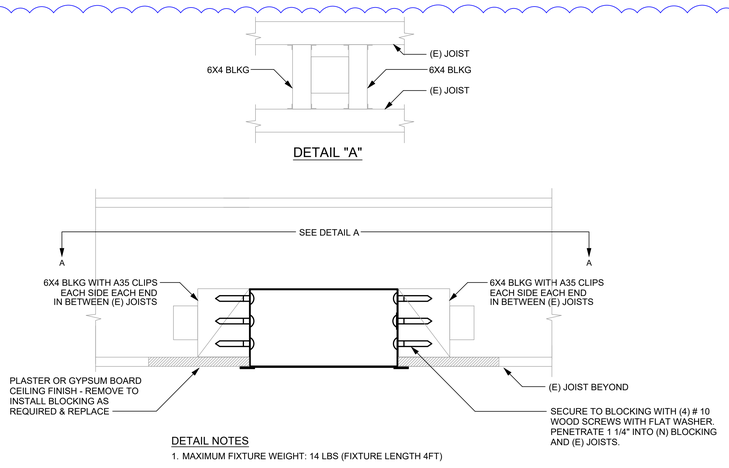
DRAWN BY: JOB NUMBER:

SHEET NO.

1E401

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\18503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\RIo Vista\Inc 1\2347.50 - RV - 1E400 - Details.dwg
LAST SAVED ON: 4/10/24 at 7:18pm, PLOTTED ON: 4/10/24 at 8:38pm
DATE PLOTTED:
FILE LOCATION:

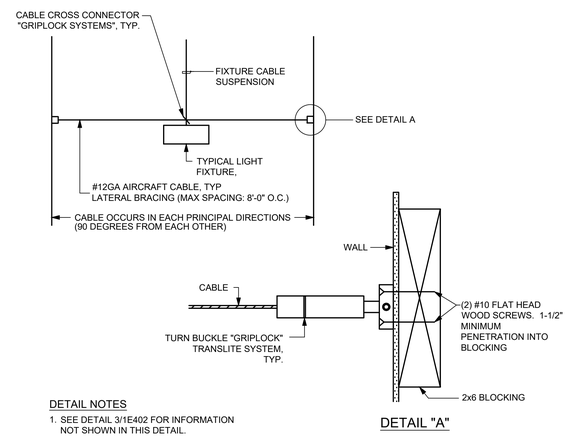


DETAIL NOTES

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

8 RECESSED FIXTURE MOUNTING

NOT TO SCALE

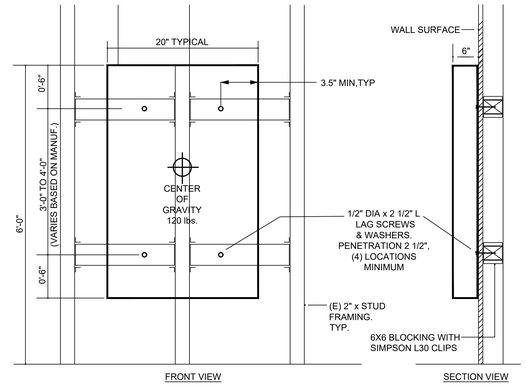


DETAIL NOTES

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

4 LIGHT FIXTURE SEISMIC BRACING

NOT TO SCALE

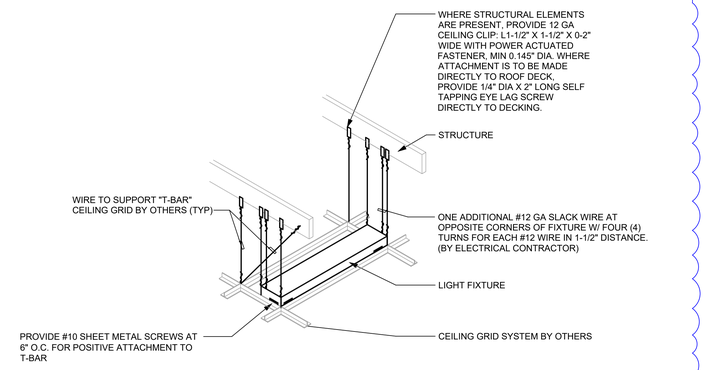


DETAIL NOTES:

A. ALL BLOCKING SHALL BE PREDRILLED TO PREVENT SPLITTING.

1 PANEL SURFACE MOUNTING DETAIL

NOT TO SCALE

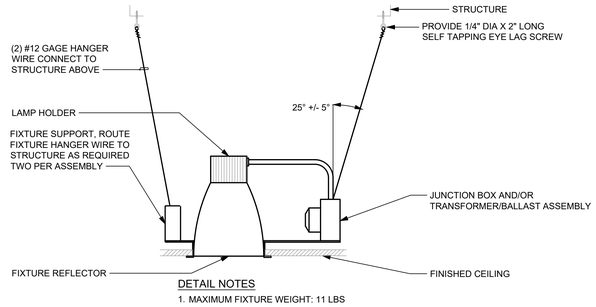


DETAIL NOTES

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

7 2' X 4' GRID FIXTURE MOUNTING

NOT TO SCALE

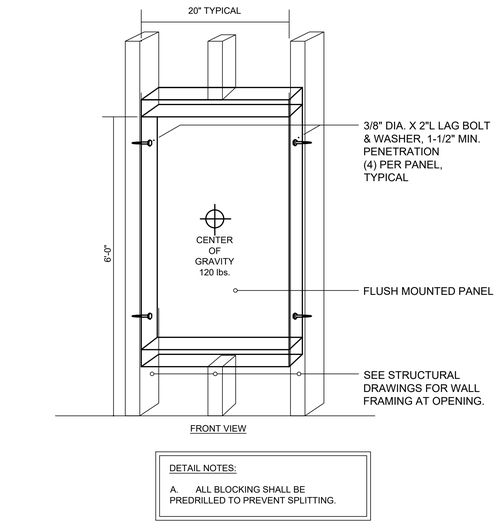


DETAIL NOTES

1. MAXIMUM FIXTURE WEIGHT: 11 LBS

5 DOWNLIGHT FIXTURE MOUNTING

NOT TO SCALE

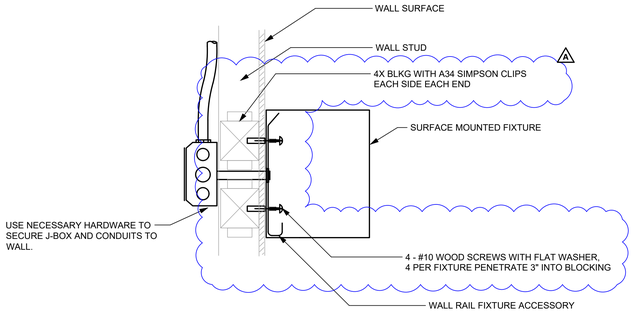


DETAIL NOTES:

A. ALL BLOCKING SHALL BE PREDRILLED TO PREVENT SPLITTING.

2 FLUSH PANEL MOUNTING DETAIL

NOT TO SCALE

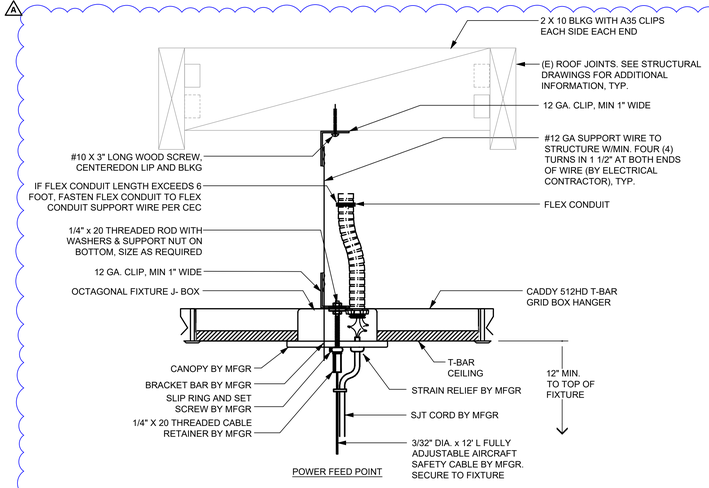


DETAIL NOTES

1. MAXIMUM FIXTURE WEIGHT: 8 LBS

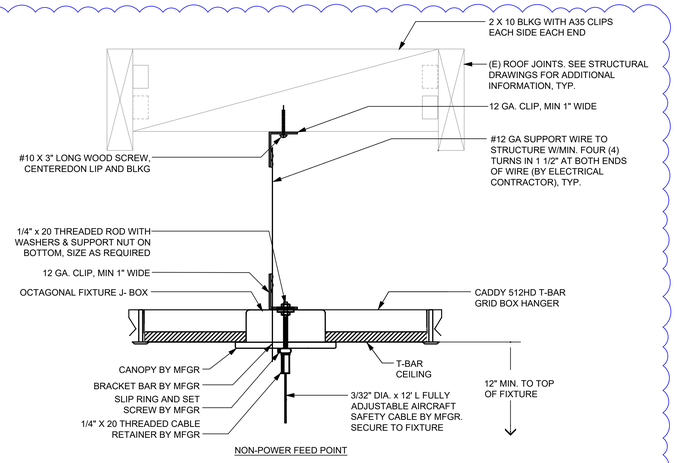
6 WALL FIXTURE MOUNTING ON WOOD STUDS

NOT TO SCALE



DETAIL NOTES

1. MAXIMUM FIXTURE WEIGHT: 14 LBS (FIXTURE LENGTH 4FT)
2. MINIMUM 2 SUPPORTING WIRES PER FIXTURE



DETAIL NOTES

1. MAXIMUM FIXTURE WEIGHT: 14 LBS (FIXTURE LENGTH 4FT)
2. MINIMUM 2 SUPPORTING WIRES PER FIXTURE

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

3 PENDANT @ T-BAR CEILING MTG DETAIL

NOT TO SCALE

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\RIo Vista\Inc 1\2347.50 - RV - 1E400 - Details.dwg
LAST SAVED ON: 4/10/24 at 7:18pm, PLOTTED ON: 4/10/24 at 8:38pm

DATE PLOTTED:

FILE LOCATION:

AGENCY APPROVAL

196

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

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PROFESSIONAL STAMP

REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE

GENERAL INFORMATION

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.

1E402

DATE: DECEMBER 06, 2023

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 2	**Report Page:** (Page 1 of 9)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-04-09T20:16:34-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Bay Point	04	Total Conditioned Floor Area (ft²)	5,276
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

● Office ● School or 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	5276	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	5276			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 2	**Report Page:** (Page 2 of 9)
	Date Prepared: 2024-04-09T20:16:34-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	= **Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		3,345.15			= 3,345.15	≥	2,280.4		=	2280.4	COMPLIES
Unconditioned					=	≥			=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

[General Remarks] RIO VISTA BLDG 2

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 2	**Report Page:** (Page 3 of 9)
	Date Prepared: 2024-04-09T20:16:34-04:00

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[3]	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	56	No	1,814.4	☐	☐
R1/R1E	R1/R1E	No	NA	27.8	Mfr. Spec	10	No	278	☐	☐
L2	L2	No	NA	14.2	Mfr. Spec	8	No	113.6	☐	☐
L3	L3	No	NA	18.6	Mfr. Spec	4	No	74.4	☐	☐
Total Designed Watts: CONDITIONED SPACES								2,280.4		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 2	**Report Page:** (Page 4 of 9)
	Date Prepared: 2024-04-09T20:16:34-04:00

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/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Pass	Fail
IDF Closet 201	Electrical Mechancial Telephone Room	Readily Accessible	NA: Enclosed area <100SF	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Storage 203	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	Included	Included	No	☐	☐
Storage 204	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Library 200	Library - Reading Area	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Office 208	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom 12A	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom 12B	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Classroom 12C	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Restroom 216	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Restroom 217	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Storage 218	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	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: Rio Vista ES Modernization Increment 1 - Bldg 2	**Report Page:** (Page 5 of 9)
	Date Prepared: 2024-04-09T20:16:34-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Storage 202	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Entry Hall 206	Main Entry Lobby	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				
					1E201				

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
IDF Closet 201	Electrical Mechancial Telephone Room	0.4	13	5.2	No	No
Storage 203	All Other Space Types	0.4	93	37.2	No	No
Storage 204	All Other Space Types	0.4	210	84	No	No
Library 200	Library - Reading Area	0.8	1,805	1,444	No	No
Office 208	Office (>250 square feet)	0.6	181	108.6	No	No
Classroom 12A	Classroom, Lecture, or Training Vocational	0.6	944	566.4	No	No
Classroom 12B	Classroom, Lecture, or Training Vocational	0.6	432	259.2	No	No
Classroom 12C	Classroom, Lecture, or Training Vocational	0.6	940	564	No	No
Restroom 216	Restroom	0.65	97	63.05	No	No
Restroom 217	Restroom	0.65	54	35.1	No	No
Storage 218	All Other Space Types	0.4	36	14.4	No	No
Storage 202	All Other Space Types	0.4	25	10	No	No
Entry Hall 206	Main Entry Lobby	0.7	220	154	No	No

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 2	**Report Page:** (Page 6 of 9)
	Date Prepared: 2024-04-09T20:16:34-04:00

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

TOTALS:	5,050	3,345.15	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
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 2	**Report Page:** (Page 7 of 9)
	Date Prepared: 2024-04-09T20:16:34-04:00

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

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

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 2	**Report Page:** (Page 8 of 9)
	Date Prepared: 2024-04-09T20:16:34-04:00

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.	Storage 203; Storage 204; Library 200; Office 208; Classroom 12A; Classroom 12B; Classroom 12C; Restroom 216; Restroom 217; Storage 218; Storage 202; Entry Hall 206
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Storage 203; Storage 204; Library 200; Office 208; Classroom 12A; Classroom 12B; Classroom 12C

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 2	**Report Page:** (Page 9 of 9)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-04-09T20:16:34-04:00

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: 04/09/24
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: 04/09/24
Address: 3533 York Ln	License: E19308
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

AGENCY APPROVAL

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

CONSULTANTS

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tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
TITLE 24

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E501

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWGs\Rio Vista\Inc 1\2347.50 - RV - 1E500 - Title 24.dwg
LAST SAVED ON: 4/10/24 at 7:19pm. PLOTTED ON: 4/10/24 at 8:42pm
DATE PLOTTED: FILE LOCATION:

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 5	**Report Page:** (Page 1 of 10)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-04-09T20:22:44-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Bay Point	04	Total Conditioned Floor Area (ft²)	4,350
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 ● Office

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	4350	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	4350			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 5	**Report Page:** (Page 2 of 10)
	Date Prepared: 2024-04-09T20:22:44-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	= **Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		2,374.3			= 2,374.3	≥	2,239.8		=	2239.8	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.

(General Remarks) RIO VISTA BLDG 5

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 5	**Report Page:** (Page 3 of 10)
	Date Prepared: 2024-04-09T20:22:44-04:00

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
R1/R1E	R1/R1E	No	NA	27.8	Mfr. Spec	11	No	305.8	☐	☐
W1	W1	No	NA	9.2	Mfr. Spec	2	No	18.4	☐	☐
L1/L1E	L1/L1E	No	NA	32.4	Mfr. Spec	36	No	1,166.4	☐	☐
L2/L2E	L2/L2E	No	NA	14.2	Mfr. Spec	32	No	454.4	☐	☐
L3	L3	No	NA	18.6	Mfr. Spec	2	No	37.2	☐	☐
L4/L4E	L4/L4E	No	NA	36.8	Mfr. Spec	7	No	257.6	☐	☐
							Total Designed Watts: CONDITIONED SPACES	2,239.8		

[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.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 5	**Report Page:** (Page 4 of 10)
	Date Prepared: 2024-04-09T20:22:44-04:00

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		

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
Office 507	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
MDF Closet 510	Electrical Mechancial Telephone Room	Auth. Personnel	NA: Enclosed area <100SF	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Hall 504	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Office 505	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Student Toilet Gender Neutral 506	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Office 502	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Nurse 512	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Waiting 513	Main Entry Lobby	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 5	**Report Page:** (Page 5 of 10)
	Date Prepared: 2024-04-09T20:22:44-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Reception Office 514	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Office Corridor	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Staff RR 515	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Staff RR 516	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Storage 518	All Other Space Types	Auth. Personnel	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Intercom 519	All Other Space Types	Auth. Personnel	NA: Enclosed area <100SF	Occupancy Sensor	Included	Included	No	☐	☐
Vice Principal 520	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Principal 522	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Staff RR 525	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Teacher Workroom A6	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Teacher Training Center A7	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Vice Principal Closet	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Office Corridor Closet	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Office 521	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 5	**Report Page:** (Page 6 of 10)
	Date Prepared: 2024-04-09T20:22:44-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

13
Plan Sheet Showing Daylit Zones:
1E202, 1E203

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
Office 507	Office (<=250 square feet)	0.65	69	44.85	No	No
MDF Closet 510	Electrical Mechancial Telephone Room	0.4	50	20	No	No
Hall 504	Corridor	0.4	122	48.8	No	No
Office 505	Office (<=250 square feet)	0.65	104	67.6	No	No
Student Toilet Gender Neutral 506	Restroom	0.65	58	37.7	No	No
Office 502	Office (<=250 square feet)	0.65	86	55.9	No	No
Nurse 512	Office (<=250 square feet)	0.65	112	72.8	No	No
Waiting 513	Main Entry Lobby	0.7	127	88.9	No	No
Reception Office 514	Office (>250 square feet)	0.6	520	312	No	No
Office Corridor	Corridor	0.4	73	29.2	No	No
Staff RR 515	Restroom	0.65	50	32.5	No	No
Staff RR 516	Restroom	0.65	70	45.5	No	No
Storage 518	All Other Space Types	0.4	34	13.6	No	No
Intercom 519	All Other Space Types	0.4	49	19.6	No	No
Vice Principal 520	Office (<=250 square feet)	0.65	145	94.25	No	No
Principal 522	Office (>250 square feet)	0.6	291	174.6	No	No

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 5	**Report Page:** (Page 7 of 10)
	Date Prepared: 2024-04-09T20:22:44-04:00

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

Staff RR 525	Restroom	0.65	69	44.85	No	No
Teacher Workroom A6	Classroom, Lecture, or Training Vocational	0.6	916	549.6	No	No
Teacher Training Center A7	Classroom, Lecture, or Training Vocational	0.6	911	546.6	No	No
Vice Principal Closet	All Other Space Types	0.4	9	3.6	No	No
Office Corridor Closet	All Other Space Types	0.4	9	3.6	No	No
Office 521	Office (<=250 square feet)	0.65	105	68.25	No	No
	TOTALS:		3,979	2,374.3	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.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 5	**Report Page:** (Page 8 of 10)
	Date Prepared: 2024-04-09T20:22:44-04:00

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: Rio Vista ES Modernization Increment 1 - Bldg 5	**Report Page:** (Page 9 of 10)
	Date Prepared: 2024-04-09T20:22:44-04:00

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.	Office 507; Hall 504; Office 505; Student Toilet Gender Neutral 506; Office 502; Nurse 512; Waiting 513; Reception Office 514; Office Corridor; Staff RR 515; Staff RR 516; Storage 518; Intercom 519; Vice Principal 520; Principal 522; Staff RR 525; Teacher Workroom A6; Teacher Training Center A7; Vice Principal Closet; Office Corridor Closet; Office 521
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Office 507; Hall 504; Office 505; Office 502; Nurse 512; Waiting 513; Reception Office 514; Intercom 519; Vice Principal 520; Principal 522; Teacher Workroom A6; Teacher Training Center A7; Office 521

AGENCY APPROVAL

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

CONSULTANTS

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP



REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE

TITLE 24

INCREMENT: ING.1

DRAWN BY: JOB NUMBER:

SHEET NO.

1E502

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 041024\05_Drawings\01_DWGs\Rio Vista\Inc 1\2347.50 - RV - 1E500 - Title 24.dwg
LAST SAVED ON: 4/10/24 at 7:19pm, PLOTTED ON: 4/10/24 at 8:43pm

FILE LOCATION:

DATE PLOTTED:

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 5	**Report Page:** (Page 10 of 10)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-04-09T20:22:44-04:00

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: 04/09/24
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: 04/09/24
Address: 3533 York Ln	License: E19208
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 7	**Report Page:** (Page 1 of 8)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-04-09T20:24:43-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Bay Point	04	Total Conditioned Floor Area (ft²)	3,802
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 ● Office

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	3802	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	3802			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 7	**Report Page:** (Page 2 of 8)
	Date Prepared: 2024-04-09T20:24:43-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04	05		06	07	08		09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	= **Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments 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		2,131			= 2,131	≥	2,043.4		= 2043.4		COMPLIES
Unconditioned					=	≥			=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

(General Remarks) RIO VISTA BLDG 7

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 7	**Report Page:** (Page 3 of 8)
	Date Prepared: 2024-04-09T20:24:43-04:00

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	55	No	1,782	☐	☐
R1/R1E	R1/R1E	No	NA	27.8	Mfr. Spec	5	No	139	☐	☐
L2/L2E	L2/L2E	No	NA	14.2	Mfr. Spec	6	No	85.2	☐	☐
L3	L3	No	NA	18.6	Mfr. Spec	2	No	37.2	☐	☐
							Total Designed Watts: CONDITIONED SPACES	2,043.4		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Kinder Classroom 701	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Break Out Room 703	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Restroom 702	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	Included	Included	No	☐	☐
Break Out Room	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Kinder Classroom 700	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Break Out Room 706	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Student RR 705	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Break Out Room 704	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
Corridor 707	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Storage 708	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				
					1E204				

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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
Kinder Classroom 701	Classroom, Lecture, or Training Vocational	0.6	910	546	No	No
Break Out Room 703	Lounge	0.55	466	256.3	No	No
Restroom 702	Restroom	0.65	62	40.3	No	No
Kinder Classroom 700	Classroom, Lecture, or Training Vocational	0.6	1,280	768	No	No
Break Out Room 706	Office (<=250 square feet)	0.65	115	74.75	No	No
Student RR 705	Restroom	0.65	47	30.55	No	No
Break Out Room 704	Office (<=250 square feet)	0.65	198	128.7	No	No
Corridor 707	Corridor	0.4	130	52	No	No
Break Out Room	Office (>250 square feet)	0.6	368	220.8	No	No
Storage 708	All Other Space Types	0.4	34	13.6	No	No
	TOTALS:	3,610	2,131	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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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.

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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.	Kinder Classroom 701; Break Out Room 703; Restroom 702; Break Out Room; Kinder Classroom 700; Break Out Room 706; Student RR 705; Break Out Room 704; Corridor 707; Storage 708
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Kinder Classroom 701; Break Out Room 703; Restroom 702; Break Out Room; Kinder Classroom 700; Break Out Room 706; Break Out Room 704

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Rio Vista ES Modernization Increment 1 - Bldg 7	**Report Page:** (Page 8 of 8)
Project Address: 611 Pacifica Ave, Baypoint, CA 94565	**Date Prepared:** 2024-04-09T20:24:43-04:00

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: 04/09/24
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: 04/09/24
Address: 3533 York Ln	License: E19208
City/State/Zip: San Ramon/CA/94582	Phone: (913)-961-1658

AGENCY APPROVAL

196

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-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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

PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
TITLE 24

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E503

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 041024\05_Drawings\01_DWGs\Rio Vista\Inc 1\2347.50 - RV - 1E500 - Title 24.dwg
LAST SAVED ON: 4/10/24 at 7:19pm. PLOTTED ON: 4/10/24 at 8:43pm
DATE PLOTTED: FILE LOCATION:

Indoor Lighting Mandatory Measures:

110.9 LIGHTING CONTROLS AND COMPONENTS
ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.

NOTE: THE EXCEPTED SPACES DO NOT COUNT TOWARDS THE 10,000 FT2 THRESHOLD.

130.0 GENERAL LUMINAIRE REQUIREMENTS
ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).
ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).

130.1(a) MANUAL AREA CONTROLS
EACH ROOM OR AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL HAVE LIGHTING CONTROLS THAT ALLOW LIGHTING TO BE MANUALLY TURNED ON AND OFF MANUAL CONTROLS SHALL:

1. BE READILY ACCESSIBLE

2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS.

3. PROVIDE SEPARATE CONTROL OF GENERAL, FLOOR, WALL, WINDOW CASE DISPLAY, ORNAMENTAL AND SPECIAL EFFECTS LIGHTING SO EACH TYPE CAN BE TURNED ON AND OFF SEPARATELY WITHOUT AFFECTING OTHER LIGHTING OR EQUIPMENT.

130.1(b) MULTILEVEL LIGHTING CONTROLS
GENERAL LIGHTING IN ALL ROOMS AND AREAS 100 FT2 OR GREATER AND WITH MORE THAN 0.5 WATTS PER FT2 OF LIGHTING LOAD SHALL HAVE MULTILEVEL CONTROLS THAT ALLOW LIGHT LEVELS TO BE ADJUSTED UP AND DOWN. CONTROLS SHALL PROVIDE NUMBER OF CONTROL STEPS AND UNIFORM ILLUMINANCE LIGHT LEVELS PER TABLE 130.1-A.

130.1(c): SHUTOFF CONTROLS
ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN SPACE IS TYPICALLY UNOCCUPIED.

130.1(c)1: CONTROL REQUIREMENTS
ALL INSTALLED INDOOR LIGHTING SHALL HAVE ALL OF THE FOLLOWING:
A. CONTROL(S) CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING IN THE SPACE WHEN TYPICALLY UNOCCUPIED (OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER)
B. SEPARATE CONTROLS FOR LIGHTING ON EACH FLOOR (OTHER THAN STAIRWELLS)

C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT2

Indoor Lighting Mandatory Measures:

130.1(c)5 REQUIRED USE OF FULL-OFF OCCUPANT SENSORS
FULL-OFF OCCUPANT SENSING CONTROLS THAT ARE CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING WHEN THE THE CONTROL ZONE IS UNOCCUPIED FOR 20 MINUTES OR LESS ARE REQUIRED FOR:

- OFFICES 250 FT^2 OR SMALLER
- MULTIPURPOSE ROOMS <1000 FT^2
- CLASSROOMS OF ANY SIZE
- CONFERENCE ROOMS OF ANY SIZE
- RESTROOMS OF ANY SIZE

ADDITIONAL FULL-OFF CONTROL FUNCTIONALITY:
WHEN MULTILEVEL CONTROL IS REQUIRED PER 130.1(b) (ENCLOSED AREA >=100 SQUARE FEET AND LIGHTING LOAD <0.5 W/FT2) PROVIDE VACANCY SENSOR OR PARTIAL-ON OCCUPANCY SENSOR. WHEN MULTILEVEL CONTROL IS NOT REQUIRED PER 130.1(b), PROVIDE OCCUPANT SENSOR, PARTIAL-ON OCCUPANT SENSOR, OR VACANCY SENSOR.

130.1(c)6 PARTIAL OR FULL-OFF OCCUPANT SENSORS
PROVIDE PARTIAL OR FULL-OFF OCCUPANT SENSORS, IN ADDITION TO SHUTOFF CONTROLS PER 130.1(c)1 AND 130.1(c)2, IN THE FOLLOWING SPACES:

- AISLE WAYS AND OPEN AREAS IN WAREHOUSES
- LIBRARY BOOK STACK AISLES
- CORRIDORS AND STAIRWELLS
- OFFICES GREATER THAN 250 SQ. FT.

Indoor Lighting Mandatory Measures:

130.1(d) AUTOMATIC DAYLIGHTING CONTROLS
ALL GENERAL LIGHTING IN THE FOLLOWING ZONES SHALL HAVE CONTROLS THAT AUTOMATICALLY ADJUST THE INSTALLED LIGHTING POWER UP AND DOWN TO KEEP TOTAL LIGHT LEVEL STABLE AS INCOMING DAYLIGHT CHANGES:

- PRIMARY SIDELIT DAYLIT ZONES
- SECONDARY SIDELIT DAYLIT ZONES
- COMBINED PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES IN PARKING GARAGES

ALL DAYLIT ZONES MUST BE SHOWN ON PLANS.

NOTE: PARKING AREAS ON THE ROOF OF A PARKING STRUCTURE ARE NOT SKYLIT DAYLIT AREAS.

IN ADDITION, AUTOMATIC DAYLIGHTING CONTROLS SHALL PROVIDE SEPARATE CONTROL FOR LUMINAIRES IN EACH TYPE OF DAYLIT ZONE. LUMINAIRES THAT FALL IN BOTH SKYLIT AND SIDELIT DAYLIT ZONE SHALL BE CONTROLLED AS PART OF THE SKYLIT ZONE.

130.1(d)3 THE AUTOMATIC DAYLIGHTING CONTROLS SHALL ACHIEVE ALL OF THE FOLLOWING:
A. ADJUST LIGHTING VIA CONTINUOUS DIMMING OR THE NUMBER OF CONTROL STEPS PROVIDED BY THE MULTILEVEL CONTROLS (FOR SPACES REQUIRED TO INSTALL MULTILEVEL CONTROLS UNDER SECTION 130.1(b)).

B. FOR EACH SPACE, ENSURE COMBINED ILLUMINANCE FROM CONTROLLED LIGHTING AND DAYLIGHT IS NOT LESS THAN ILLUMINANCE FROM CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE.

C. ENSURE THAT THE GENERAL LIGHTING POWER IN A DAYLIT ZONE SHALL BE REDUCED BY AT LEAST 90% WHEN DAYLIGHT ILLUMINANCE IN THAT ZONE IS GREATER THAN 150% OF DESIGN ILLUMINANCE RECEIVED FROM THE GENERAL LIGHTING SYSTEM AT FULL POWER (NOT APPLICABLE TO PARKING GARAGES).

D. (FOR PARKING GARAGES ONLY) ENSURE THAT WHEN ILLUMINANCE LEVELS MEASURED AT THE FARTHEST EDGE OF THE SECONDARY SIDELIT ZONE AWAY FROM GLAZING OR OPENING ARE GREATER THAN 150% OF THE ILLUMINANCE PROVIDED BY THE CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE, THE CONTROLLED LIGHTING POWER IN THE COMBINED PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES SHALL BE REDUCED BY 100%.

130.1(d)4 WHEN PHOTOSENSORS ARE LOCATED WITHIN THE DAYLIT ZONE, AT LEAST ONE PHOTOSENSOR SHALL BE LOCATED SO THAT IT IS NOT READILY ACCESSIBLE TO UNAUTHORIZED PERSONNEL.

130.1(d)5 THE LOCATION WHERE CALIBRATION ADJUSTMENTS ARE MADE TO AUTOMATIC DAYLIGHTING CONTROLS SHALL BE READILY ACCESSIBLE TO AUTHORIZED PERSONNEL BUT MAY BE INSIDE A LOCKED CASE OR UNDER A COVER THAT REQUIRES A TOOL FOR ACCESS.

Indoor Lighting Mandatory Measures:

130.1(f) CONTROL INTERACTIONS
EACH LIGHTING CONTROL INSTALLED TO MEET 130.1 REQUIREMENTS SHALL INCORPORATE THE FUNCTIONS OF OTHER LIGHTING CONTROLS REQUIRED BY THIS SECTION.

1. FOR GENERAL LIGHTING, MANUAL AREA CONTROL SHALL PERMIT THE LEVEL OF LIGHT PROVIDED WHILE LIGHTING IS ON TO BE SET OR ADJUSTED BY CONTROLS SPECIFIED IN 130.1(b), (c), (d) and (e).

2. MANUAL AREA CONTROL SHALL PERMIT SHUTOFF CONTROL TO TURN THE LIGHTING DOWN OR OFF.

3. MULTILEVEL CONTROL SHALL PERMIT THE AUTOMATIC DAYLIGHTING CONTROL TO ADJUST ELECTRIC LIGHTING IN RESPONSE TO DAYLIGHT.

4. MULTILEVEL CONTROL SHALL PERMIT THE DEMAND RESPONSIVE (DR) CONTROL TO ADJUST LIGHTING DURING A DR EVENT THEN RETURN IT TO THE LEVEL SET BY THE CONTROL AFTER THE EVENT.

5 SHUTOFF CONTROL SHALL PERMIT THE MANUAL AREA CONTROL TO TURN THE LIGHTING ON.

6. AUTOMATIC DAYLIGHTING CONTROL SHALL PERMIT MULTILEVEL LIGHTING CONTROL TO ADJUST THE LIGHTING LEVEL.

7. FOR LIGHTING CONTROLLED BY MULTILEVEL LIGHTING CONTROLS AND OCCUPANT SENSING CONTROLS THAT PROVIDE AUTOMATIC-ON FUNCTION, CONTROLS SHALL PROVIDE A PARTIAL-ON FUNCTION THAT IS CAPABLE OF AUTOMATICALLY ACTIVATING BETWEEN 50-70% OF CONTROLLED LIGHTING POWER.

8. RESERVED

9. FOR SPACE CONDITIONING SYSTEM ZONES SERVING ONLY SPACES THAT ARE REQUIRED TO HAVE OCCUPANT SENSING CONTROLS SHALL BE CONTROLLED BY OCCUPANCY SENSING CONTROLS.

AGENCY APPROVAL

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REVISIONS

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-	02-24-2023	DSA SUBMITTAL
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SHEET TITLE
TITLE 24

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1E504

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\RIo Vista\Inc 1\2347.50 - RV - 1E500 - Title 24.dwg
LAST SAVED ON: 4/10/24 at 7:19pm, PLOTTED ON: 4/10/24 at 8:43pm
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FIRE ALARM SEQUENCE OF OPERATIONS MATRIX

● = ACTION

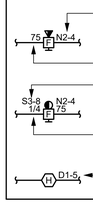
BLANK = NO ACTION

	FIRE ALARM SYSTEM INPUTS	FIRE ALARM SYSTEM OUTPUTS: CONTROL UNIT ANNUNCIATION: ACTUATE FIRE ALARM SIGNAL INDICATOR @ FACP (A)	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR (B)	ACTUATE AUDIBLE SUPERVISORY SIGNAL @ FACP (C)	ACTUATE COMMON TROUBLE SIGNAL INDICATOR (D)	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL @ FACP (E)	NOTIFICATION: ACTUATE AUDIBLE ALARM SIGNAL THROUGHOUT BLDG (F)	ACTUATE VISIBLE ALARM SIGNAL THROUGHOUT BLDG (G)	ACTIVATE LOCAL AUDIBLE SIGNAL/SOUNDER (–)	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION (J)	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION (K)	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION (L)	SHUT DOWN HVAC UNITS OVER 2000CFM VIA RELAY MODULE (Q)	(R)	UNLOCK EXIT DOORS VIA CARD ACCESS SYSTEM (S)
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		●	●					●		●			A	
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
- RM CONTROL RELAY MODULE
  MODEL: SIGA-CR
  CSFM: 7300-1657:0121
- (S)D SMOKE DETECTOR - DUCT
  MODEL: EDWARDS_SIGA-SD
  CSFM: 3242-1501:0153
- 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
- FSD FIRE SMOKE DAMPER - SEE MECHANICAL DOCUMENTS
- MD MAGNETIC DOOR HOLDER - SEE ARCHITECTURAL DOCUMENTS
- PIV POST INDICATOR VALVE - SEE CIVIL DOCUMENTS
- WFS WATER FLOW SWITCH - SEE FIRE PROTECTION DOCUMENTS
- VTS VALVE TAMPER SWITCH - SEE FIRE PROTECTION DOCUMENTS
- (F) FIRE SPRINKLER BELL - SEE FIRE PROTECTION DOCUMENTS

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 VIA A RELAY BASE.

2. ACTIVATION OF A VALVE SUPERVISORY SWITCH OR SHOULD AN OPEN GROUND OR FAULT OCCUR IN THE WIRING, THE FACP(S) AND REMOTE ANNUNCIATOR(S) SHALL INITIATE A TROUBLE SIGNAL AND SHALL INDICATE THE SOURCE OF THE TROUBLE.

3. ONCE THE SYSTEM IS BACK TO NORMAL, THE PANEL WILL RESOUND FOR PROPER RESETTING.

4. WHERE REMOTE MONITORING IS NOT REQUIRED, THE FIRE ALARM PANEL SHALL BE BACKED UP BY STANDBY 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. SYSTEM TYPE: CLASS B, ADDRESSABLE, AUTOMATIC.
3. METHOD OF COMMUNICATION: TELEPHONE
4. SCOPE OF WORK: NEW AUTOMATIC EXTENSION OF AN EXISTING AUTOMATIC FIRE ALARM SYSTEM TO AN EXISTING BUILDING AT AN EXISTING SCHOOL CAMPUS.
5. FIRE ALARM SYSTEM MEETS REQUIREMENTS OF CA SB575 GREEN OAKS FAMILY ACADEMY ELEMENTARY SCHOOL FIRE PROTECTION ACT.

FIRE ALARM GENERAL NOTES

A. PLANS SHALL BE APPROVED BY THE "DIVISION OF THE STATE ARCHITECT" (DSA) PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE AND INSTALLATION OF THE SYSTEM.

B. ALL FIRE ALARM DEVICES SHALL BE CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED.

C. FIRE ALARM WIRING AND MATERIALS SHALL BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760. MINIMUM WIRE SHALL BE TWO (2) #14 AWG FOR INITIATING CIRCUITS AND TWO (2) #14 AWG FOR INDICATING CIRCUITS.

D. FIRE ALARM WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (i.e. THHW OR EQUAL).

E. PER CEC STANDARDS ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM BOX TO THE DEVICE. ALL BOXES SIZED PER CEC.

F. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF FIRE- STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.

G. VISUAL FIRE ALARM DEVICES SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELAS. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE. DEVICES WITHIN 55' OF EACH OTHER SHALL BE SYNCHRONIZED.

H. ALL FIRE ALARM DEVICE CONNECTIONS TO THE LIGHT AND POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTING MEANS SHALL HAVE A PERMANENT RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. (2022 NFPA 72 SECTION 10.6.5.2.1)

I. THE CONTRACTOR SHALL ADJUST ALL DEVICES TO MAXIMUM PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

J. FIRE ALARM EVACUATION SIGNAL SHALL SOUND A THREE-PULSE TEMPORAL PATTERN (2022 CBC 907.5.2.1.3 AND 2022 NFPA 72 18.4.2.1). CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN (2022 NFPA 72, 5.8.6.5.1).

K. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS. (2022 NFPA 72 SECTION 18.4.3.1) (I.E. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS 45 dBA PLUS 15 dBA EQUALS 60 dBA MINIMUM ALARM TONE REQUIRED). SOUND TO BE MAINTAINED FOR A MINIMUM DURATION OF 60 SECONDS.

L. STROBES SHALL FLASH AT A RATE OF NOT EXCEEDING TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND. (2022 NFPA 72 SECTION 18.5.3.1)

M. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC MODE SHOULD HAVE A SOUND LEVEL OF NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 110 dBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. (2022 NFPA 72 SECTION18.4)

N. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

O. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.

P. DSA, ARCHITECT AND ENGINEER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.

Q. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING AT THEIR DISCRETION.

R. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.

S. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE OWNER, ARCHITECT AND INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (2022 NFPA 72 SECTION 7.8.2 AND 14.6 AND FIGURE 7.8.2(a) - 7.8.2(1)).

T. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE ALARM MONITORING CONTRACT OR PROVISIONS. AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72 AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FACTORY MUTUAL (FM) 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH CBC/CFC SECTION 907.6.6.2.

U. PROVIDE A STANDALONE DOCUMENTATION CABINET ADJACENT TO THE FIRE ALARM CONTROL PANEL. ALL RECORDED DOCUMENTATION PERTAINING TO THE FIRE ALARM SYSTEM INSTALLED SHALL BE STORED IN THE DOCUMENTATION CABINET (2022 NFPA 72 7.7.2). THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS" (2022 NFPA 72 7.7.2.5).

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

1F000	GENERAL INFORMATION
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1F002	SCHEDULES
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1F202	FIRE ALARM PLANS
1F203	FIRE ALARM PLANS
1F204	FIRE ALARM PLANS
1F205	FIRE ALARM PLANS
1F301	DIAGRAMS
1F302	DIAGRAMS
1F401	DETAILS

AGENCY APPROVAL

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email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE

GENERAL INFORMATION

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.

1F000

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\sRio Vista\inc 1\2347.50 - RV - 1F000 - General Information.dwg
LAST SAVED ON: 4/10/24 at 7:53pm, PLOTTED ON: 4/10/24 at 8:39pm
DATE PLOTTED: FILE LOCATION:

FAS VOLTAGE DROP (VD) CALCULATION "N1" BLDG 7

DEVICE NUMBER	K23	K24	K25	K26	K27	K28	K29	K30						
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	8	28	25	24	28	33	36	55						
HORN	YES	YES	YES	NO	YES	YES	YES	YES						
STROBE	75CD	75CD	75CD	15CD	75CD	75CD	75CD	75CD						
AMPS AT DEVICE	0.233	0.158	0.233	0.066	0.233	0.233	0.233	0.233	0.000	0.000	0.000	0.000	0.000	0.000
AMPS DEVELOPED	1.622	1.389	1.231	0.998	0.932	0.699	0.466	0.233	0.000	0.000	0.000	0.000	0.000	0.000
VOLTAGE DROP	0.046	0.138	0.109	0.085	0.092	0.082	0.059	0.045	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL CIRCUIT VOLTAGE DROP: 0.656
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 19.744
% VOLTAGE DROP: **3.216%**
MAXIMUM ALLOWED
% VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION "N2" BLDG 7

DEVICE NUMBER	K51	K52	K53	K54	K55	K56								
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	8	42	52	64	74	84								
HORN	YES	YES	YES	YES	NO	NO								
STROBE	75CD	75CD	30CD	75CD	15CD	15CD								
AMPS AT DEVICE	0.233	0.233	0.169	0.233	0.066	0.066	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AMPS DEVELOPED	1.000	0.767	0.534	0.365	0.132	0.066	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VOLTAGE DROP	0.028	0.114	0.098	0.083	0.035	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL CIRCUIT VOLTAGE DROP: 0.378
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 20.022
% VOLTAGE DROP: **1.851%**
MAXIMUM ALLOWED
% VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION "N1" BLDG 2

DEVICE NUMBER	C16	C17	C50	C55	C57									
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	36	109	82	133	148									
HORN	YES	YES	YES	YES	YES									
STROBE	75CD	75CD	75CD	75CD	75CD									
AMPS AT DEVICE	0.233	0.233	0.233	0.233	0.233	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AMPS DEVELOPED	1.165	0.932	0.699	0.466	0.233	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VOLTAGE DROP	0.148	0.360	0.203	0.219	0.122	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL CIRCUIT VOLTAGE DROP: 1.052
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 19.348
% VOLTAGE DROP: **5.159%**
MAXIMUM ALLOWED
% VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION "N2" BLDG 2

DEVICE NUMBER	C47	C48	C49	C51	C52	C53	C54	C56						
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	25	55	70	70	80	90	100	100						
HORN	YES	YES	YES	YES	NO	NO	YES	YES						
STROBE	75CD	75CD	75CD	75CD	15CD	15CD	75CD	75CD						
AMPS AT DEVICE	0.233	0.233	0.233	0.233	0.066	0.066	0.233	0.233	0.000	0.000	0.000	0.000	0.000	0.000
AMPS DEVELOPED	1.530	1.297	1.064	0.831	0.598	0.532	0.466	0.233	0.000	0.000	0.000	0.000	0.000	0.000
VOLTAGE DROP	0.135	0.253	0.264	0.206	0.169	0.169	0.165	0.082	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL CIRCUIT VOLTAGE DROP: 1.444
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 18.956
% VOLTAGE DROP: **7.077%**
MAXIMUM ALLOWED
% VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION "N1" BLDG 5

DEVICE NUMBER	G14	G15	G16	G17										
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	3	20	36	40										
HORN	YES	YES	YES	YES										
STROBE	75CD	30CD	75CD	75CD										
AMPS AT DEVICE	0.233	0.169	0.233	0.233	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AMPS DEVELOPED	0.868	0.635	0.466	0.233	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VOLTAGE DROP	0.009	0.045	0.059	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL CIRCUIT VOLTAGE DROP: 0.147
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 20.253
% VOLTAGE DROP: **0.718%**
MAXIMUM ALLOWED
% VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION "N2" BLDG 5

DEVICE NUMBER	G34	G35	G36	G37	G38	G39								
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	12	34	42	45	55	60								
HORN	YES	YES	YES	NO	NO	YES								
STROBE	15CD	75CD	30CD	15CD	15CD	30CD								
AMPS AT DEVICE	0.141	0.233	0.169	0.066	0.066	0.169	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AMPS DEVELOPED	0.844	0.703	0.470	0.301	0.235	0.169	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VOLTAGE DROP	0.036	0.085	0.070	0.048	0.046	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL CIRCUIT VOLTAGE DROP: 0.320
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 20.080
% VOLTAGE DROP: **1.568%**
MAXIMUM ALLOWED
% VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

FAS VOLTAGE DROP (VD) CALCULATION "N3" BLDG 5

DEVICE NUMBER	G61	G62	G63	G64	G71	G72	G65	G66	G67	G68	G69			
WIRE GAUGE	12	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	8	5	15	38	60	93	23	32	40	20	23			
HORN	NO	NO	YES	NO	YES	YES	NO	YES	YES	YES	YES			
STROBE	15CD	15CD	30CD	15CD	75CD	75CD	15CD	75CD	30CD	15CD	75CD			
AMPS AT DEVICE	0.066	0.066	0.169	0.066	0.233	0.233	0.066	0.233	0.169	0.141	0.233	0.000	0.000	0.000
AMPS DEVELOPED	1.675	1.609	1.543	1.374	1.308	1.075	0.842	0.776	0.543	0.374	0.233	0.000	0.000	0.000
VOLTAGE DROP	0.047	0.028	0.082	0.185	0.278	0.354	0.069	0.088	0.077	0.026	0.019	0.000	0.000	0.000

TOTAL CIRCUIT VOLTAGE DROP: 1.253
CIRCUIT VOLTAGE: 20.400
VOLTAGE AT FINAL DEVICE: 19.147
% VOLTAGE DROP: **6.143%**
MAXIMUM ALLOWED
% VOLTAGE DROP: 10%

WIRE SIZE	OHMS/ 1000 FT	CIRC. MILS.
12	1.77	6530
14	2.82	4110
16	4.48	2580
18	7.14	1620
20	11.34	1020
22	18.08	640
24	28.64	404

FORMULA:
VOLTAGE DROP = AMPS X FT X OHMS/FT

AGENCY APPROVAL

196

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PROFESSIONAL STAMP



REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
SCHEDULES

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1F001

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\Rio Vista\Inc 1\2347.50 - RV - 1F000 - General Information.dwg
LAST SAVED ON: 4/10/24 at 7:53pm, PLOTTED ON: 4/10/24 at 8:39pm
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FAS BATTERY CALCULATION "(E)FACP/RNPS" BLDG 5

QTY	MODEL NUMBER	DEVICE TYPE	SUPERVISORY CURRENT (PER DEVICE)	SUPERVISORY CURRENT (TOTAL)	ALARM CURRENT (PER DEVICE)	ALARM CURRENT (TOTAL)
2	SIGA-SB	(R)SMOKE DETECTOR	0.00020	0.00040	0.00650	0.01300
5	SIGA-HFS	(E)/(R)HEAT DETECTOR	0.00020	0.00100	0.00650	0.03250
2	SIGA-278	(R)PULL STATION	0.00038	0.00076	0.00500	0.01000
2	G1R-HOV75	(R)HORN/STROBE, 75CD	0.00000	0.00000	0.14000	0.28000
22	SIGA-PCD	(N)SMOKE DETECTOR	0.00020	0.00440	0.00650	0.14300
22	SIGA-HFD	(N)HEAT DETECTOR ABOVE CLG	0.00020	0.00440	0.00650	0.14300
1	SIGA-278	(N)PULL STATION	0.00038	0.00038	0.00500	0.00500
4	G1AVRF	(N)HORN/STROBE, 75CD	0.00000	0.00000	0.14000	0.56000
6	G1AVRF	(N)HORN/STROBE, 30CD	0.00000	0.00000	0.09200	0.55200
2	G1AVRF	(N)HORN/STROBE, 15CD	0.00000	0.00000	0.08200	0.16400
6	G1VRF	(N)STROBE, 15CD	0.00000	0.00000	0.00650	0.03900
			0.00000	0.00000	0.00000	0.00000
			SYSTEM SUPERVISORY CURRENT	**0.01134**	**SYSTEM ALARM CURRENT**	**1.94150**

MAXIMUM SUPERVISORY CURRENT: 0.01134
STANDBY PERIOD (24 HOURS): 24.00000
REQUIRED SUPERVISORY RESERVE: 0.27216

MAXIMUM ALARM CURRENT: 1.94150
ALARM PERIOD (15 MINUTES): 0.25000
REQUIRED ALARM RESERVE: 0.48538

(N)RESERVE AMP HOURS: 0.75754
(E)RESERVE AMP HOURS: 50.25437
20% SPARE CAPACITY: 10.20238
TOTAL REQUIRED AMP HOURS: 61.21429

BATTERY AMP HOURS SUPPLIED: (2)120

NOTE: EXISTING LOADS BASED ON DSA APPLICATION # 105316.
PROVIDE NEW BATTERIES. SIZE AS INDICATED.

FAS BATTERY CALCULATION "(E)BPS#1" BLDG 1

QTY	MODEL NUMBER	DEVICE TYPE	SUPERVISORY CURRENT (PER DEVICE)	SUPERVISORY CURRENT (TOTAL)	ALARM CURRENT (PER DEVICE)	ALARM CURRENT (TOTAL)
3	SIGA-CR	(N)CONTROL RELAY MODULE	0.00035	0.00105	0.00650	0.01950
2	SEE MECHANICAL DOCUMENTS	(N)DUCT SMOKE DETECTOR	0.00030	0.00060	0.00650	0.01300
			0.00000	0.00000	0.00000	0.00000
			0.00000	0.00000	0.00000	0.00000
			0.00000	0.00000	0.00000	0.00000
			0.00000	0.00000	0.00000	0.00000
			0.00000	0.00000	0.00000	0.00000
			0.00000	0.00000	0.00000	0.00000
			SYSTEM SUPERVISORY CURRENT	**0.00165**	**SYSTEM ALARM CURRENT**	**0.03250**

MAXIMUM SUPERVISORY CURRENT: 0.00165
STANDBY PERIOD (24 HOURS): 24.00000
REQUIRED SUPERVISORY RESERVE: 0.03960

MAXIMUM ALARM CURRENT: 0.03250
ALARM PERIOD (15 MINUTES): 0.25000
REQUIRED ALARM RESERVE: 0.00813

RESERVE AMP HOURS: 0.04773
(E)RESERVE AMP HOURS: 1.88460
20% SPARE CAPACITY: 0.38646
TOTAL REQUIRED AMP HOURS: 2.31878

(E) BATTERY AMP HOURS SUPPLIED: (2)10

NOTE: EXISTING LOADS BASED ON DSA APPLICATION # 105316.

FAS BATTERY CALCULATION "(R)RPS#2" BLDG 2

QTY	MODEL NUMBER	DEVICE TYPE	SUPERVISORY CURRENT (PER DEVICE)	SUPERVISORY CURRENT (TOTAL)	ALARM CURRENT (PER DEVICE)	ALARM CURRENT (TOTAL)
19	SIGA-PCD	(N)SMOKE DETECTOR	0.00020	0.00380	0.00650	0.12350
22	SIGA-HFD	(N)HEAT DETECTOR ABOVE CLG	0.00020	0.00440	0.00650	0.14300
11	G1AVRF	(N)HORN/STROBE, 75CD	0.00000	0.00000	0.14000	1.54000
2	G1VRF	(N)STROBE, 15CD	0.00000	0.00000	0.00650	0.01300
			0.00000	0.00000	0.00000	0.00000
			0.00000	0.00000	0.00000	0.00000
			0.00000	0.00000	0.00000	0.00000
			0.00000	0.00000	0.00000	0.00000
			SYSTEM SUPERVISORY CURRENT	**0.00820**	**SYSTEM ALARM CURRENT**	**1.81950**

MAXIMUM SUPERVISORY CURRENT: 0.00820
STANDBY PERIOD (24 HOURS): 24.00000
REQUIRED SUPERVISORY RESERVE: 0.19680

MAXIMUM ALARM CURRENT: 1.81950
ALARM PERIOD (15 MINUTES): 0.25000
REQUIRED ALARM RESERVE: 0.45488

RESERVE AMP HOURS: 0.65168
20% SPARE CAPACITY: 0.13034
TOTAL REQUIRED AMP HOURS: 0.78201

(E) BATTERY AMP HOURS SUPPLIED: (2)10

NOTE: EXISTING LOADS BASED ON DSA APPLICATION # 105316.

FAS BATTERY CALCULATION "(R)RPS#7" BLDG 7

QTY	MODEL NUMBER	DEVICE TYPE	SUPERVISORY CURRENT (PER DEVICE)	SUPERVISORY CURRENT (TOTAL)	ALARM CURRENT (PER DEVICE)	ALARM CURRENT (TOTAL)
16	SIGA-PCD	(N)SMOKE DETECTOR	0.00020	0.00320	0.00650	0.10400
16	SIGA-HFD	(N)HEAT DETECTOR ABOVE CLG	0.00020	0.00320	0.00650	0.10400
10	G1AVRF	(N)HORN/STROBE, 75CD	0.00000	0.00000	0.14000	1.40000
1	G1AVRF	(N)HORN/STROBE, 30CD	0.00000	0.00000	0.09200	0.09200
3	G1VRF	(N)STROBE, 15CD	0.00000	0.00000	0.00650	0.01950
			0.00000	0.00000	0.00000	0.00000
			0.00000	0.00000	0.00000	0.00000
			0.00000	0.00000	0.00000	0.00000
			SYSTEM SUPERVISORY CURRENT	**0.00640**	**SYSTEM ALARM CURRENT**	**1.71950**

MAXIMUM SUPERVISORY CURRENT: 0.00640
STANDBY PERIOD (24 HOURS): 24.00000
REQUIRED SUPERVISORY RESERVE: 0.15360

MAXIMUM ALARM CURRENT: 1.71950
ALARM PERIOD (15 MINUTES): 0.25000
REQUIRED ALARM RESERVE: 0.42988

RESERVE AMP HOURS: 0.58348
20% SPARE CAPACITY: 0.11670
TOTAL REQUIRED AMP HOURS: 0.70017

(E) BATTERY AMP HOURS SUPPLIED: (2)10

NOTE: EXISTING LOADS BASED ON DSA APPLICATION # 105316.

AGENCY APPROVAL

196

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PROFESSIONAL STAMP



REVISIONS

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-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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Concord, CA 94519

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

SHEET TITLE
SCHEDULES

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1F002

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\116503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWGs\Rio Vista\Inc 1\2347.50 - RV - 1F000 - General Information.dwg
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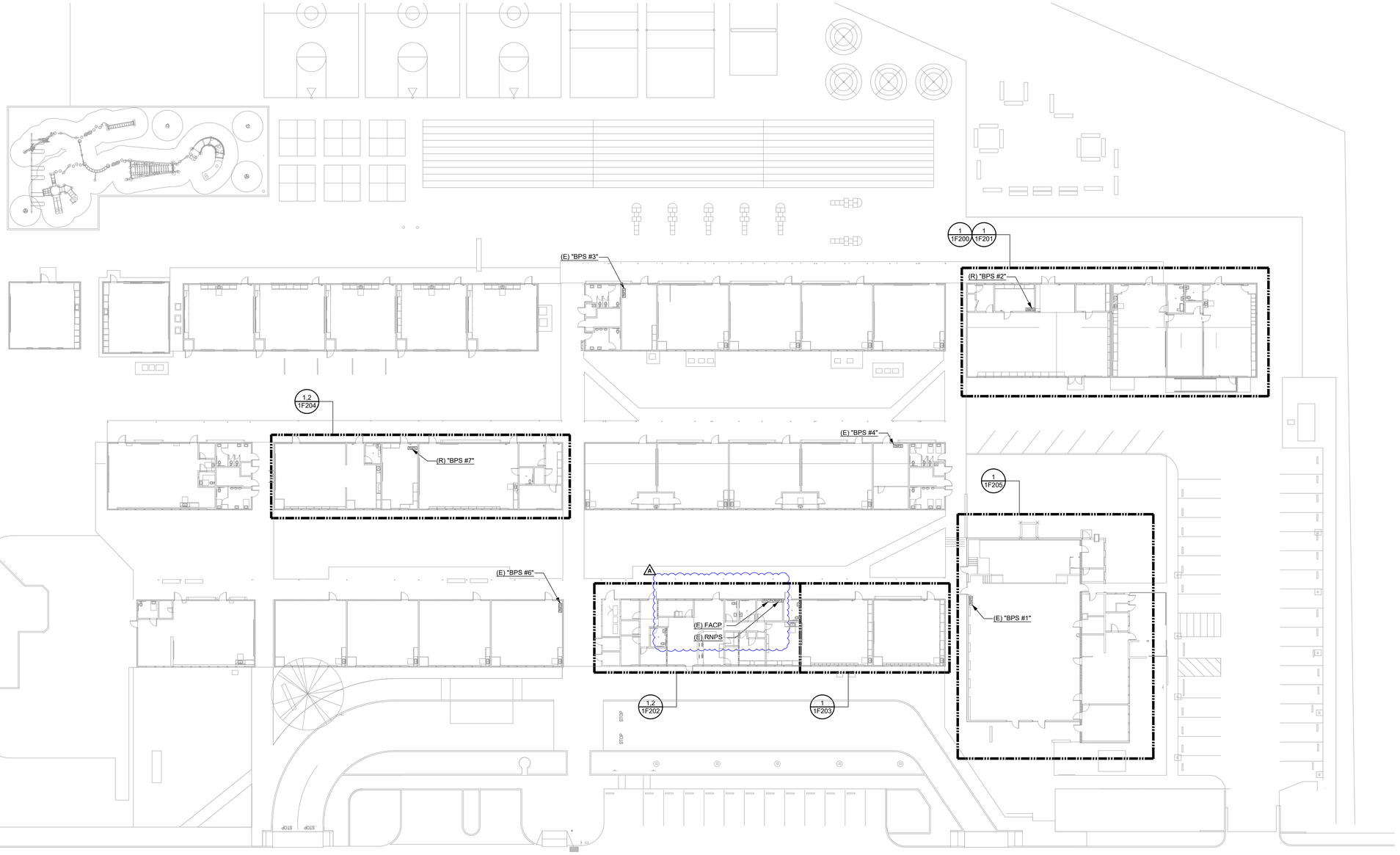

1 **SITE PLAN**
1" = 20'-0"

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\RIo Vista\Inc 1\2347.50 - RV - 1F100 - Site Plan.dwg
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AGENCY APPROVAL

196

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611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE
SITE PLAN

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1F100

DATE: DECEMBER 06, 2023

GENERAL DEMOLITION NOTES

A. UNLESS OTHERWISE NOTED, IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT ~~PORTION OF THE EXISTING E~~LECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

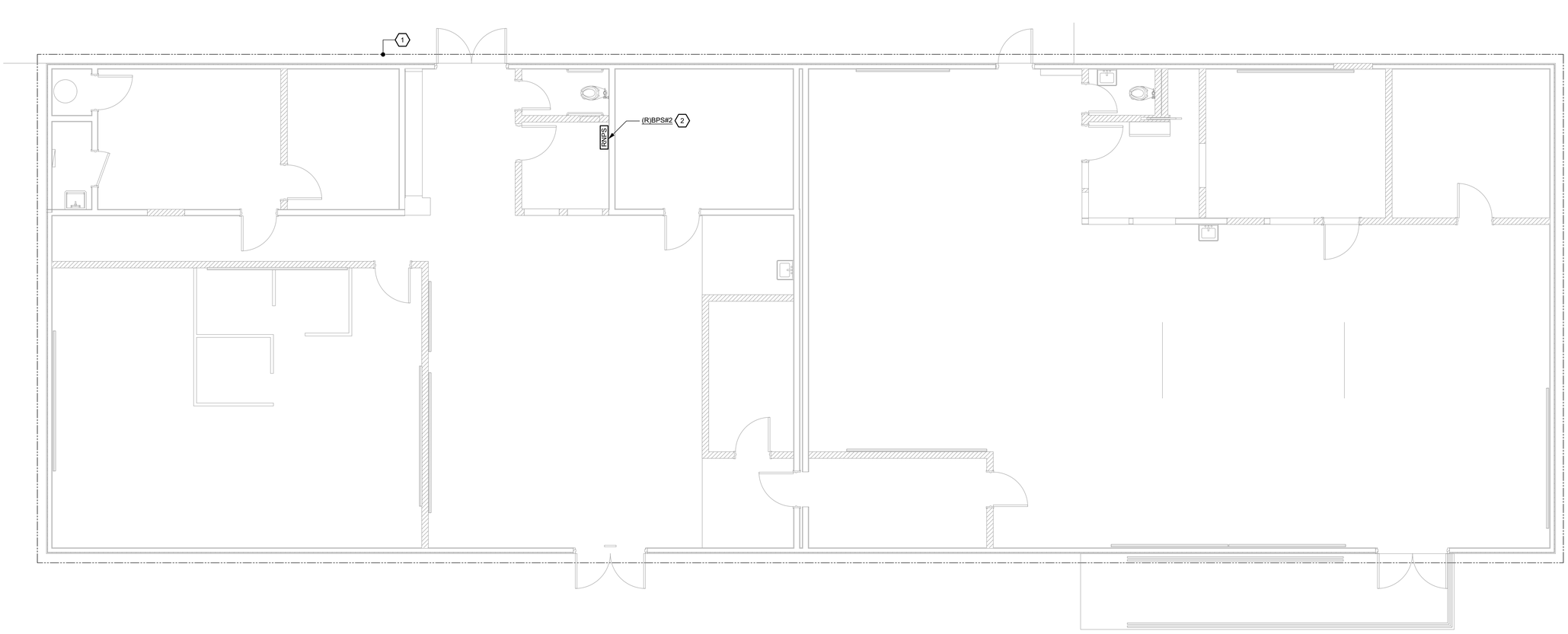
G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

I. ANY ELECTRICAL WORK, WHICH WILL INTERFERE WITH THE NORMAL USE OF THE BUILDING IN ANY MANNER, SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE.

SHEET NOTES

1. REMOVE EXISTING FIRE ALARM DEVICES, UNLESS OTHERWISE NOTED. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.
2. DISCONNECT AND REINSTALL EXISTING FIRE ALARM BOOSTER SUPPLY PANEL AT NEW, RELOCATED LOCATION. INTERCEPT AND EXTEND WIRING FOR PANEL AND DEVICES TO NEW PANEL LOCATION.



1 **BLDG 2 - DEMO FIRE ALARM PLAN**
1/4" = 1'-0"

FILE LOCATION: C:\Users\116503\OneDrive\Desktop\mt diablo\CAD 041024\05_Drawings\01_DWGs\Rio Vista\Inc 1\2347.50 - RV - 1F200 - Fire Alarm Plan.dwg
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FILE LOCATION:

AGENCY APPROVAL

1996

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PROFESSIONAL STAMP



REVISIONS

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-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1F200

DATE: DECEMBER 06, 2023

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	#12/2	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

GENERAL NOTES

A. CONNECT REMOTE NOTIFICATION POWER SUPPLIES TO FIRE ALARM CONTROL PANEL WITH TWO (2) #14 AWG, UNLESS OTHERWISE NOTED.

B. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. FOR RACEWAY IN NON-ACCESSIBLE LOCATIONS, USE EXPOSED WIREMOLD V700 SERIES SURFACED MOUNTED RACEWAYS.

F. ALL INTERIOR FIRE ALARM CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.

G. SEE DETAILS FOR MOUNTING REQUIREMENTS OF FIRE ALARM DEVICES.

H. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

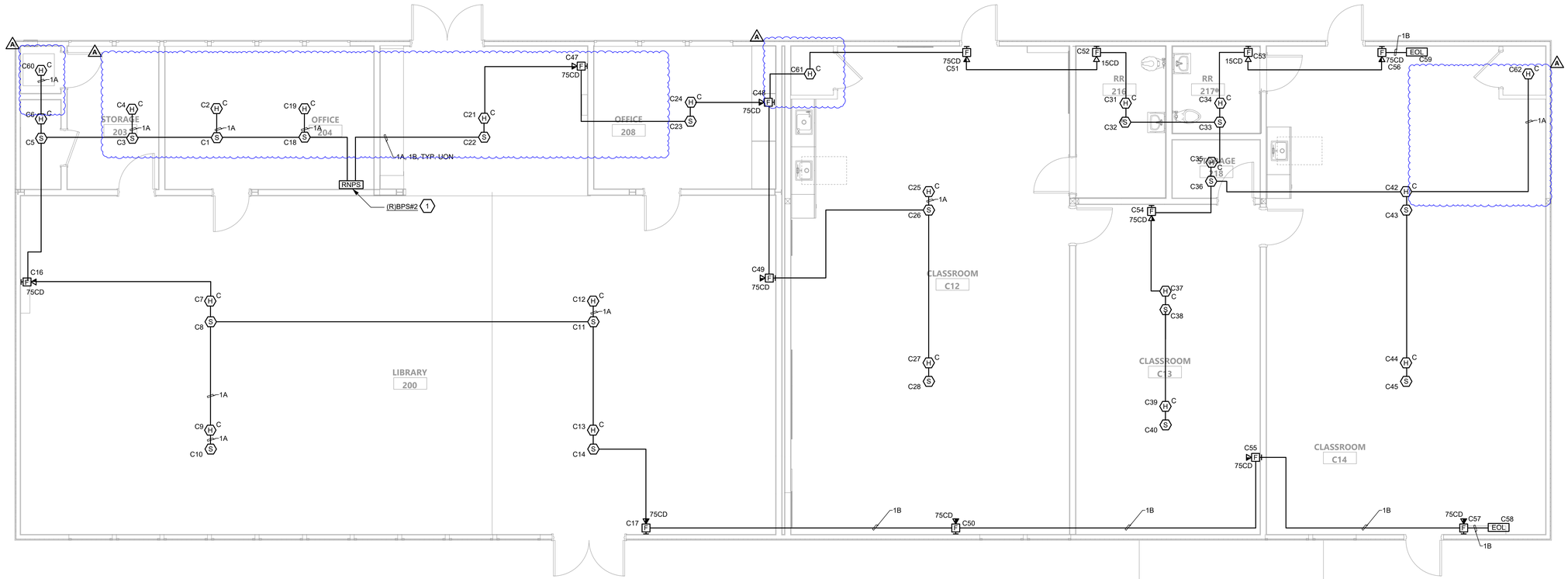
I. MAINTAIN ALL SPACING AND PENETRATION REQUIREMENTS THROUGH FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

J. PROVIDE FIRE RATED ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS TO ABOVE CEILING HEAT DETECTORS FOR MAINTENANCE.

K. HEAT DETECTORS MOUNTED BELOW CEILING SHALL BE 135 DEGREE FIXED TEMP/RATE OF RISE. HEAT DETECTORS MOUNTED ABOVE CEILING SHALL BE 190 DEGREE HIGH FIXED TEMPURATURE, UNLESS OTHERWISE NOTED.

(#) SHEET NOTES

1. EXISTING FIRE ALARM BOOSTER SUPPLY PANEL AT NEW, RELOCATED LOCATION. INTERCEPT AND EXTEND WIRING FOR PANEL AND DEVICES TO NEW PANEL LOCATION.



1 BLDG 2 - FIRE ALARM PLAN

1/4" = 1'-0"

AGENCY APPROVAL

196

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Concord, CA 94519

RIO VISTA ES MODERNIZATION & SITE IMPROVEMENTS

611 Pacifica Ave
Bay Point, CA 94565

SHEET TITLE

FIRE ALARM PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.

1F201

DATE: DECEMBER 06, 2023

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FILE LOCATION:

FIRE ALARM WIRE TYPES

TAG	TYPE	GAUGE	DEVICE TYPE
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Au	UNSHIELDED TWISTER PAIR FPL	#14/2	SLC UNDERGROUND
B	SHIELDED TWISTER PAIR FPLR	#12/2	NAC INDOOR
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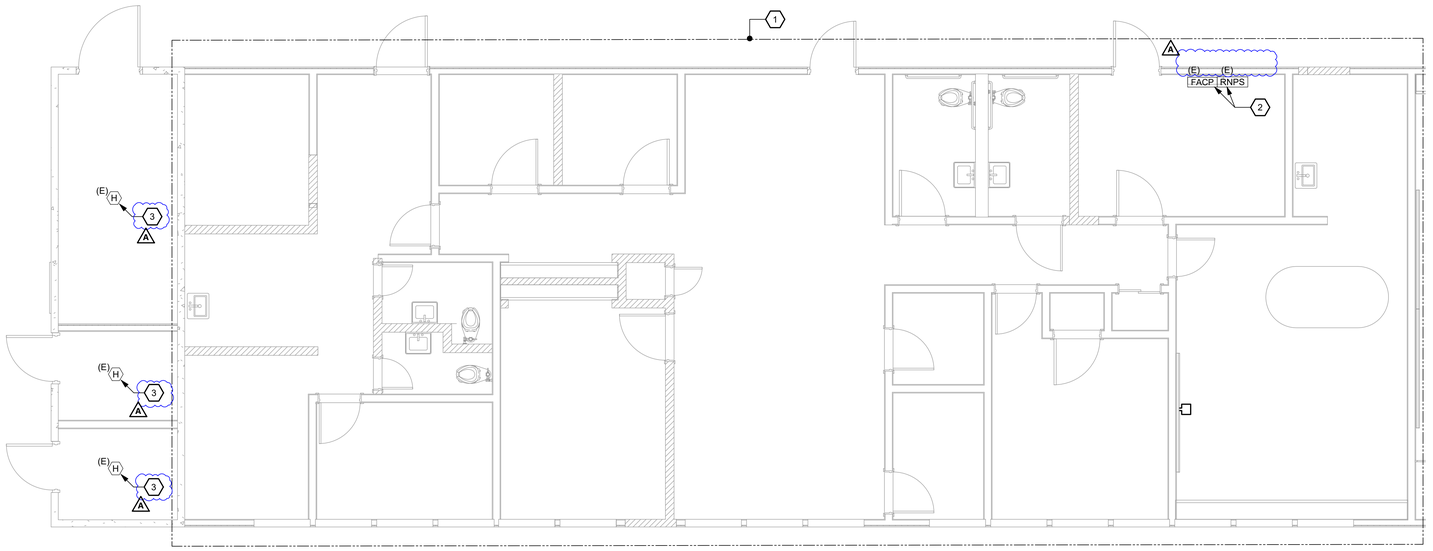
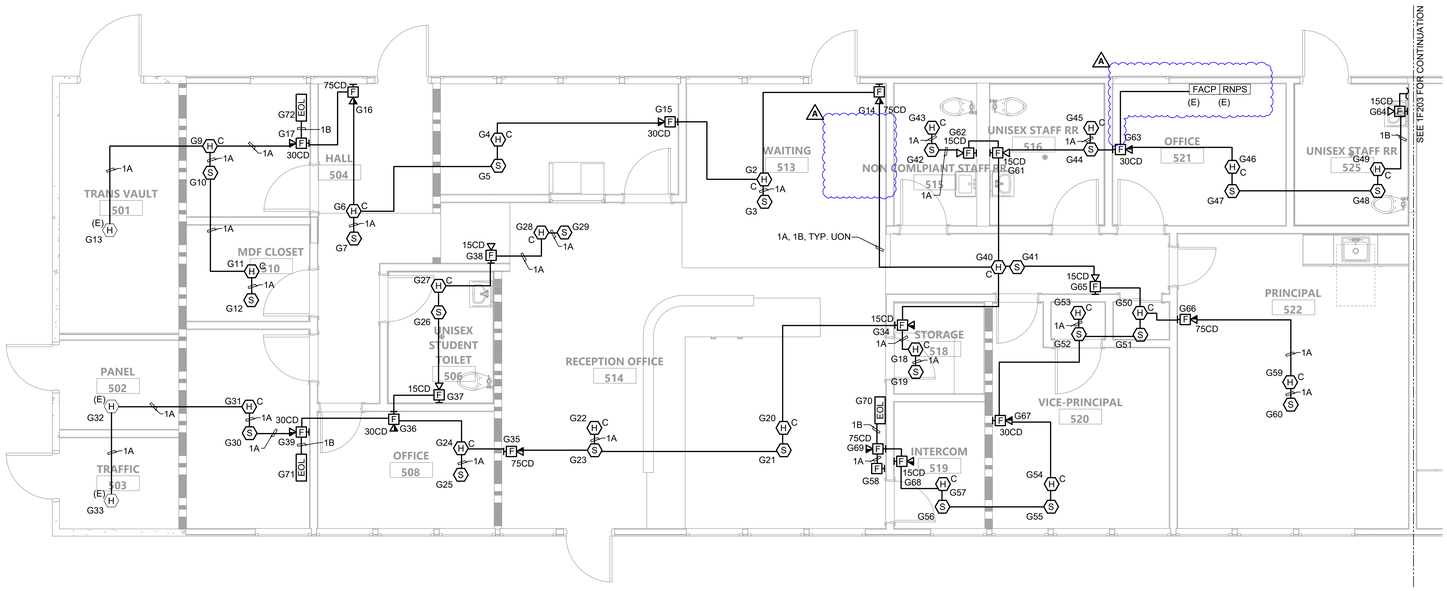
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
Cu	SHIELDED TWISTER PAIR FPL	#14/2	SPEAKER UNDERGROUND
Du	2-STRAND MULTIMODE FIBER	N/A	DIGITAL AMPLIFICATION LOOP



1 BLDG 5 - DEMO FIRE ALARM PLAN

1/4" = 1'-0"



2 BLDG 5 - FIRE ALARM PLAN

1/4" = 1'-0"

GENERAL DEMOLITION NOTES

A. UNLESS OTHERWISE NOTED, IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

I. ANY ELECTRICAL WORK, WHICH WILL INTERFERE WITH THE NORMAL USE OF THE BUILDING IN ANY MANNER, SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE.

GENERAL NOTES

A. CONNECT REMOTE NOTIFICATION POWER SUPPLIES TO FIRE ALARM CONTROL PANEL WITH TWO (2) #14 AWG, UNLESS OTHERWISE NOTED.

B. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. FOR RACEWAY IN NON-ACCESSIBLE LOCATIONS, USE EXPOSED WIREMOLD V700 SERIES SURFACED MOUNTED RACEWAYS.

F. ALL INTERIOR FIRE ALARM CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.

G. SEE DETAILS FOR MOUNTING REQUIREMENTS OF FIRE ALARM DEVICES.

H. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

I. MAINTAIN ALL SPACING AND PENETRATION REQUIREMENTS THROUGH FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

J. PROVIDE FIRE RATED ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS TO ABOVE CEILING HEAT DETECTORS FOR MAINTENANCE.

K. HEAT DETECTORS MOUNTED BELOW CEILING SHALL BE 135 DEGREE FIXED TEMP/RATE OF RISE. HEAT DETECTORS MOUNTED ABOVE CEILING SHALL BE 190 DEGREE HIGH FIXED TEMPURATURE, UNLESS OTHERWISE NOTED.

SHEET NOTES

1. REMOVE EXISTING FIRE ALARM DEVICES, UNLESS OTHERWISE NOTED. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING FIRE ALARM CONTROL PANEL AND REMOTE NOTIFICATION POWER SUPPLY TO REMAIN.
3. EXISTING DEVICE TO REMAIN. INTERCEPT AND EXTEND EXISTING WIRING AND CONDUIT TO NEW PANEL LOCATION.

AGENCY APPROVAL

196

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email: info@atiumeng.com

PROFESSIONAL STAMP

REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE

FIRE ALARM PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.

1F202

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\185503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\RioVistaInc 1\2347.50 - RV - 1F200 - Fire Alarm Plan.dwg
LAST SAVED ON: 4/10/24 at 7:22pm, PLOTTED ON: 4/10/24 at 8:54pm

DATE PLOTTED:
FILE LOCATION:

GENERAL DEMOLITION NOTES

A. (UNLESS OTHERWISE NOTED,) IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT ~~PORTION OF THE EXISTING~~ ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

B. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

C. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

D. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

E. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

F. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

G. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

H. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

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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.

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D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. FOR RACEWAY IN NON-ACCESSIBLE LOCATIONS, USE EXPOSED WIREMOLD V700 SERIES SURFACED MOUNTED RACEWAYS.

F. ALL INTERIOR FIRE ALARM CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.

G. SEE DETAILS FOR MOUNTING REQUIREMENTS OF FIRE ALARM DEVICES.

H. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

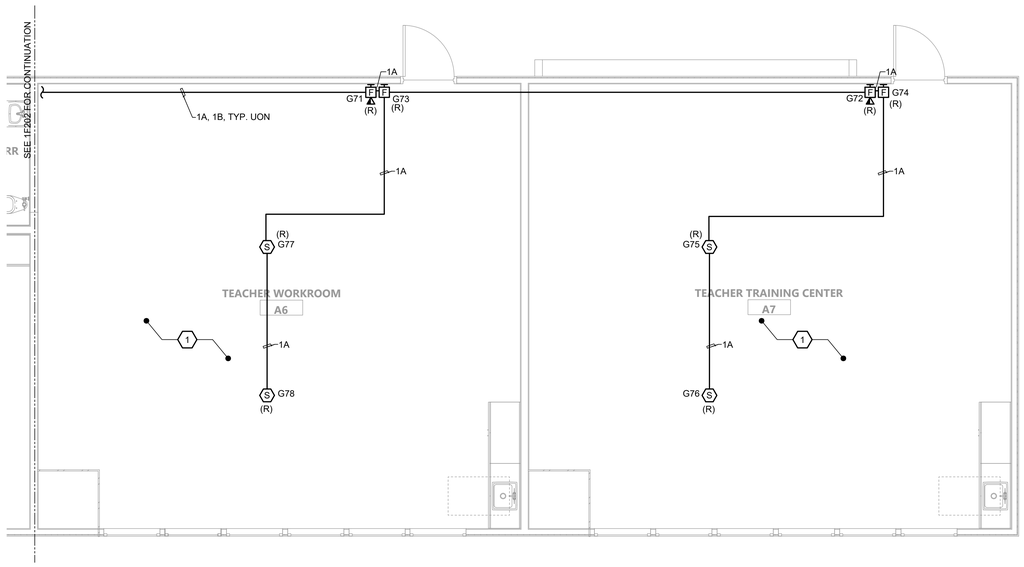
I. MAINTAIN ALL SPACING AND PENETRATION REQUIREMENTS THROUGH FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

J. PROVIDE FIRE RATED ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS TO ABOVE CEILING HEAT DETECTORS FOR MAINTENANCE.

K. HEAT DETECTORS MOUNTED BELOW CEILING SHALL BE 135 DEGREE FIXED TEMP/RATE OF RISE. HEAT DETECTORS MOUNTED ABOVE CEILING SHALL BE 190 DEGREE HIGH FIXED TEMPURATURE, UNLESS OTHERWISE NOTED.

SHEET NOTES

1. DISCONNECT AND REINSTALL EXISTING FIRE ALARM DEVICES AT SAME LOCATION, UNLESS OTHERWISE NOTED. INTERCEPT AND EXTEND BRANCH WIRING AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALL. EXISTING DEVICES SHOWN ON PLAN FOR REFERENCE ONLY. ANY EXISTING DEVICES THAT ARE NO LONGER IN WORKING CONDITION SHALL BE REPLACED-IN-KIND. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.



1 **BLDG 5 - FIRE ALARM PLAN**
1/4" = 1'-0"

AGENCY APPROVAL

196

991 W HEDDING STREET, SUITE 101
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PROFESSIONAL STAMP

REVISIONS

-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1F203

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\116503\OneDrive\Desktop\mt diablo\CAD 041024\05_Drawings\01_DWG\RioVista\Inc 1\2347.50 - RV - 1F200 - Fire Alarm Plan.dwg
LAST SAVED ON: 4/10/24 at 7:22pm, PLOTTED ON: 4/10/24 at 8:54pm
DATE PLOTTED: FILE LOCATION:

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	#12/2	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

GENERAL DEMOLITION NOTES

A. UNLESS OTHERWISE NOTED, IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

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GENERAL NOTES

A. 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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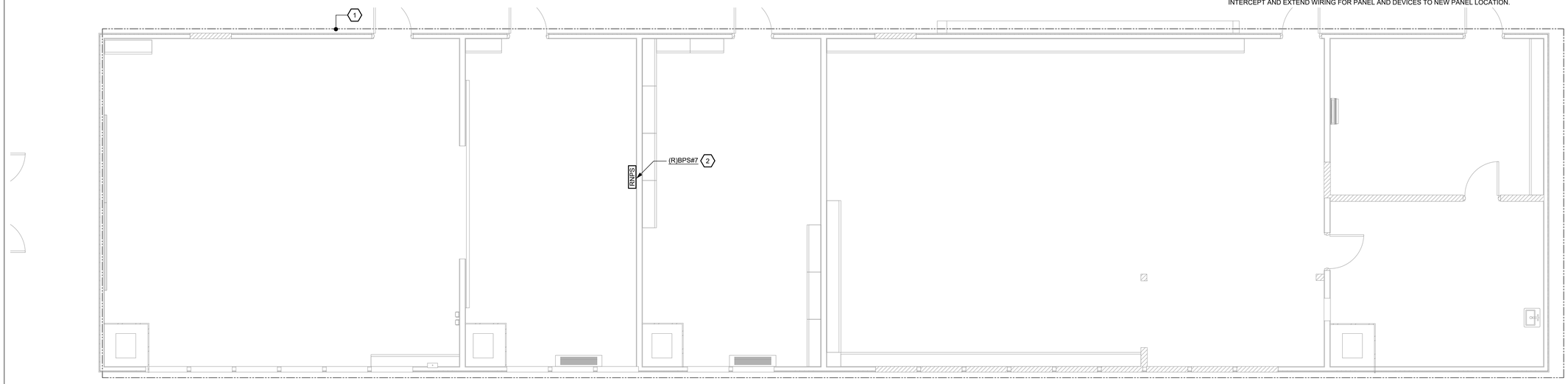
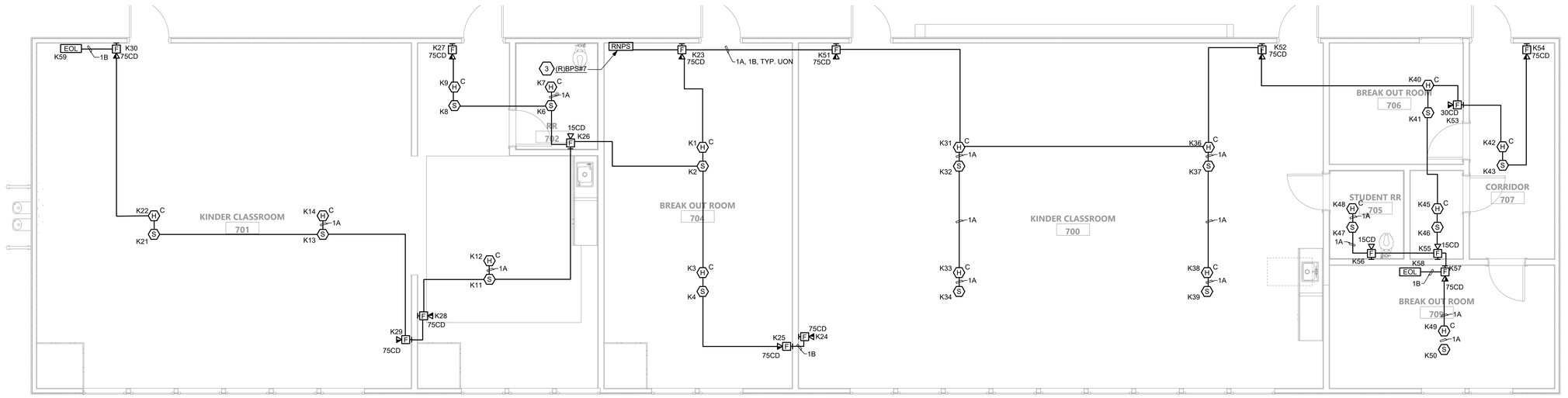
SHEET NOTES

1. REMOVE EXISTING FIRE ALARM DEVICES, UNLESS OTHERWISE NOTED. FIELD VERIFY EXISTING DEVICES PRIOR TO COMMENCEMENT OF WORK.
2. DISCONNECT AND REINSTALL EXISTING FIRE ALARM BOOSTER SUPPLY PANEL AT NEW, RELOCATED LOCATION. INTERCEPT AND EXTEND WIRING FOR PANEL AND DEVICES TO NEW PANEL LOCATION.
3. EXISTING FIRE ALARM BOOSTER SUPPLY PANEL AT NEW, RELOCATED LOCATION. INTERCEPT AND EXTEND WIRING FOR PANEL AND DEVICES TO NEW PANEL LOCATION.



1 BLDG 7 - DEMO FIRE ALARM PLAN
1/4" = 1'-0"



2 BLDG 7 - FIRE ALARM PLAN
1/4" = 1'-0"

991 W HEDDING STREET, SUITE 101
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email: info@atiumeng.com

AGENCY APPROVAL

CONSULTANTS

PROFESSIONAL STAMP

REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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PROJECT OWNER & TITLE
MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
FIRE ALARM PLANS

INCREMENT: INC.1

DRAWN BY:

JOB NUMBER:

SHEET NO.
1F204

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\116503\OneDrive\Desktop\mt diablo\CAD 041024\05_Drawings\01_DWGs\Rio Vista\Inc 1\23447.50 - RV - 1F200 - Fire Alarm Plan.dwg
LAST SAVED ON: 4/10/24 at 7:22pm, PLOTTED ON: 4/10/24 at 8:54pm

DATE PLOTTED:

FILE LOCATION:

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	#12/2	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

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) #16 AWG, UNLESS OTHERWISE NOTED.

C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

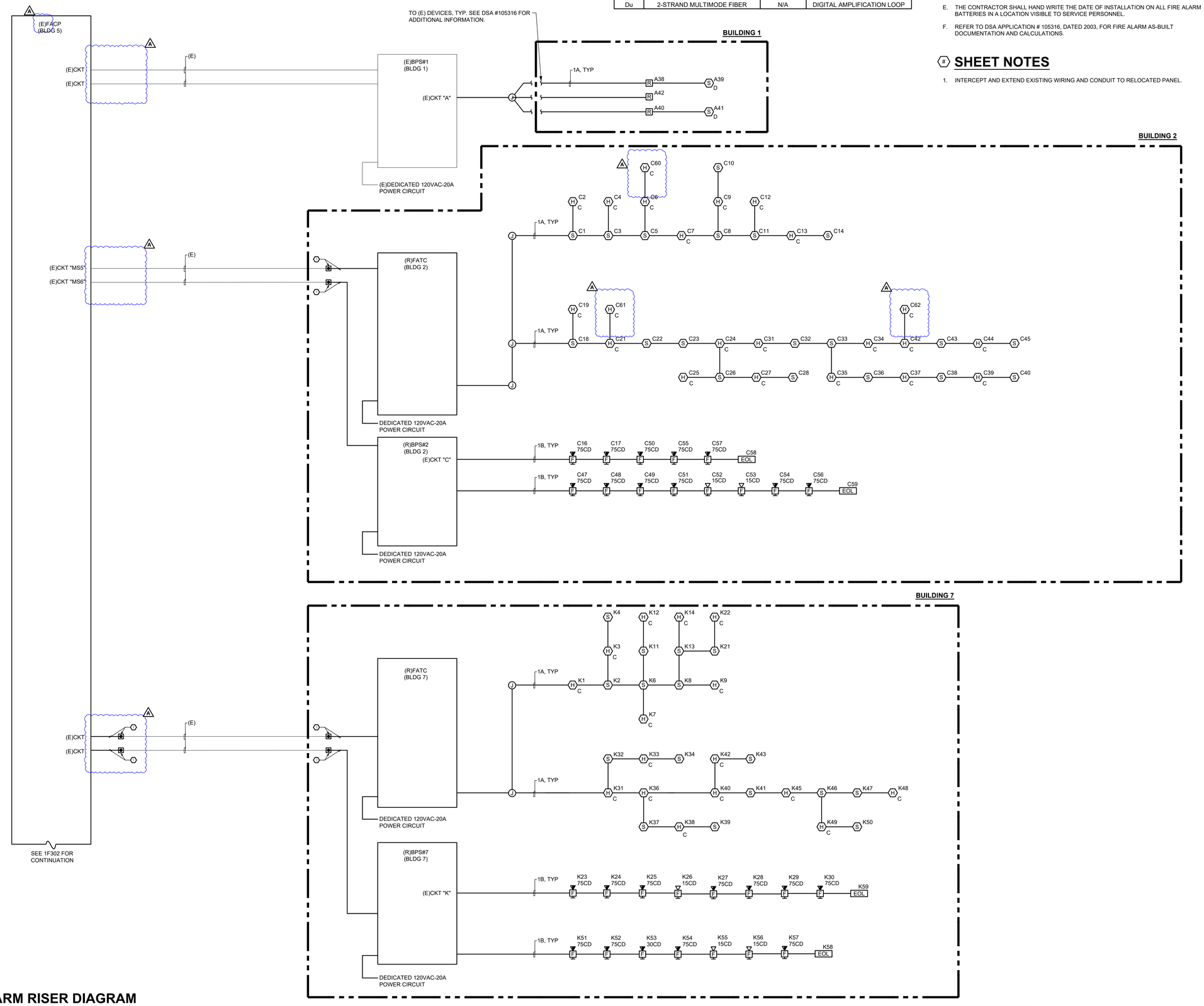
D. THE PROJECT INSPECTOR SHALL VERIFY CANDELA SETTINGS, AFTER INSTALLATION, OF ALL MULTI-CANDELA VISUAL NOTIFICATION DEVICES DUE TO FIELD ADJUSTABILITY.

E. THE CONTRACTOR SHALL HAND WRITE THE DATE OF INSTALLATION ON ALL FIRE ALARM BATTERIES IN A LOCATION VISIBLE TO SERVICE PERSONNEL.

F. REFER TO DSA APPLICATION # 105316, DATED 2003, FOR FIRE ALARM AS-BUILT DOCUMENTATION AND CALCULATIONS.

SHEET NOTES

1. INTERCEPT AND EXTEND EXISTING WIRING AND CONDUIT TO RELOCATED PANEL.



1 FIRE ALARM RISER DIAGRAM

NTS

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 041024\05_Drawings\01_DWGs\Rio Vista\Inc 1\2347.50 - RV - 1F300 - Diagrams.dwg
LAST SAVED ON: 4/10/24 at 8:37pm, PLOTTED ON: 4/10/24 at 8:58pm

DATE PLOTTED:

FILE LOCATION:

AGENCY APPROVAL

991 W HEDDING STREET, SUITE 101
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PROFESSIONAL STAMP

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MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE
DIAGRAMS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1F301

DATE: DECEMBER 06, 2023

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	#12/2 (A)	NAC INDOOR
Bu	UNSHIELDED TWISTER PAIR FPL	#12/2	NAC UNDERGROUND
C	SHIELDED TWISTER PAIR FPLR	#14/2	SPEAKER INDOOR
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C. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

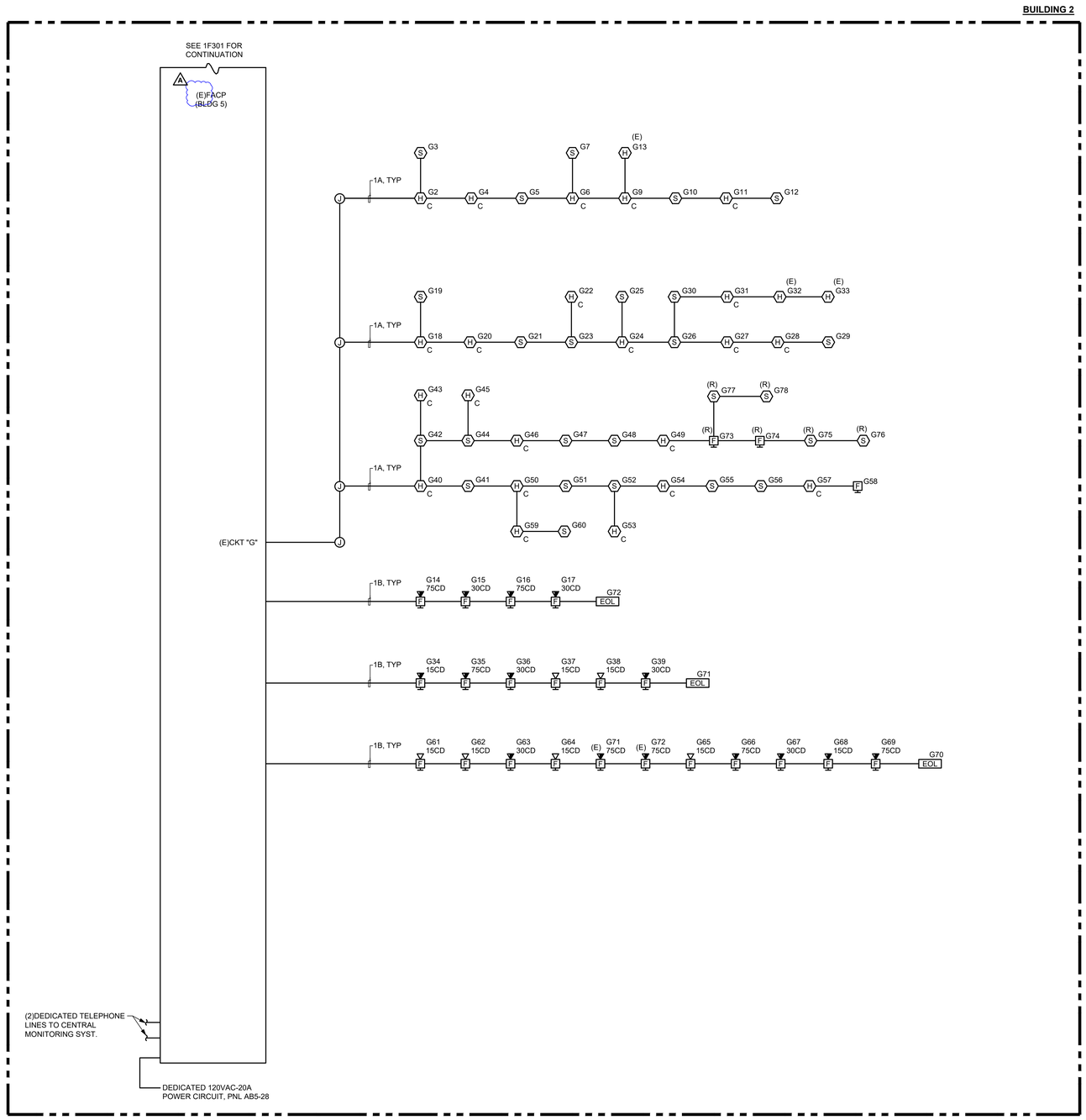
D. THE PROJECT INSPECTOR SHALL VERIFY CANDELA SETTINGS, AFTER INSTALLATION, OF ALL MULTI-CANDELA VISUAL NOTIFICATION DEVICES DUE TO FIELD ADJUSTABILITY.

E. THE CONTRACTOR SHALL HAND WRITE THE DATE OF INSTALLATION ON ALL FIRE ALARM BATTERIES IN A LOCATION VISIBLE TO SERVICE PERSONNEL.

F. REFER TO DSA APPLICATION # 105316, DATED 2003, FOR FIRE ALARM AS-BUILT DOCUMENTATION AND CALCULATIONS.

(#) SHEET NOTES

1. NOT USED.



1 **FIRE ALARM RISER DIAGRAM**
NTS

196
991 W HEDDING STREET, SUITE 101
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AGENCY APPROVAL

PROFESSIONAL STAMP

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Bay Point, CA 94565

SHEET TITLE
DIAGRAMS

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.
1F302

DATE: DECEMBER 06, 2023

FILE LOCATION: C:\Users\16503\OneDrive\Desktop\mt diablo\CAD 04102405_Drawings\01_DWG\RIo Vista\Inc 1\2347.50 - RV - 1F300 - Diagrams.dwg
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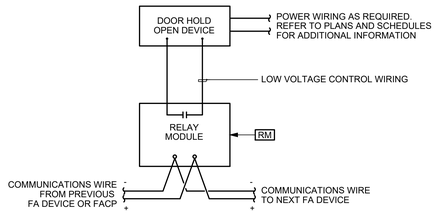


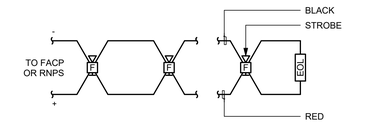
DETAIL NOTES

1 UPON ACTIVATION OF FIRE ALARM, DOOR SHALL CLOSE

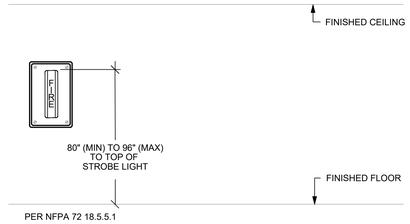
2 BASED UPON RELAY MODULE WITH NORMALLY OPEN CONTACTS. REFER TO MANUFACTURER'S INFORMATION FOR EXACT REQUIREMENTS.

7 DOOR HOLD OPEN WIRING DIAGRAM

NOT TO SCALE

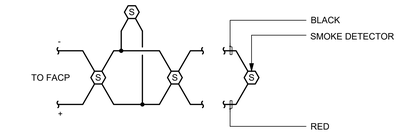


TYPICAL STROBE WIRING DIAGRAM

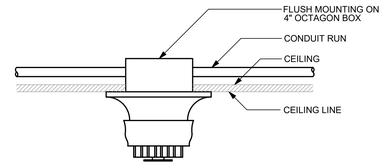


4 STROBE INSTALLATION

NOT TO SCALE

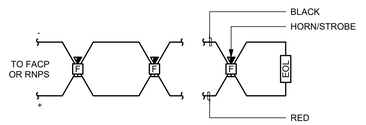


TYPICAL SMOKE DETECTOR WIRING DIAGRAM

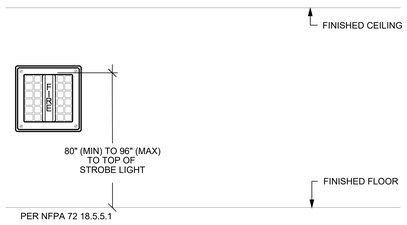


1 ADDRESSABLE SMOKE DETECTOR INSTALLATION

NOT TO SCALE

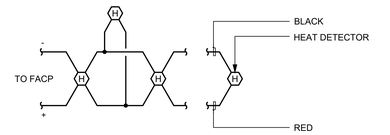


TYPICAL HORN/STROBE WIRING DIAGRAM

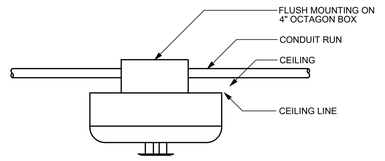


5 2 WIRE HORN/STROBE INSTALLATION

NOT TO SCALE

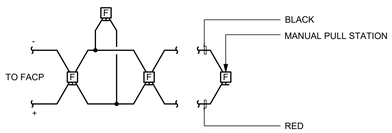


TYPICAL HEAT DETECTOR WIRING DIAGRAM

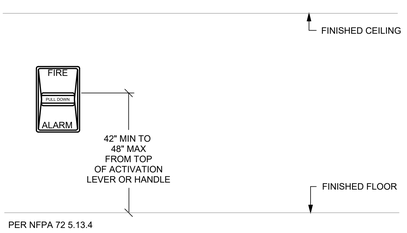


2 ADDRESSABLE HEAT DETECTOR INSTALLATION

NOT TO SCALE

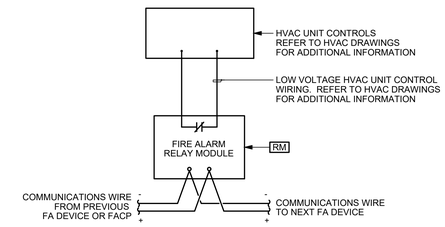


TYPICAL MANUAL PULL STATION WIRING DIAGRAM



6 ADDRESSABLE MANUAL PULL STATION INSTALLATION

NOT TO SCALE



DETAIL NOTES

1 BASED ON RELAY MODULE WITH NORMALLY CLOSED CONTACTS. REFER TO MANUFACTURER'S OR ASSOCIATED DUCT SMOKE DETECTOR'S EXACT REQUIREMENT.

2 UPON ACTIVATION OF FIRE ALARM SYSTEM, CONTACT IN RELAY MODULE SHALL OPEN AND UNIT SHALL SHUT DOWN. REFER TO FIRE ALARM SEQUENCE OF OPERATION AND FLOOR PLANS FOR MORE INFORMATION..

3 HVAC UNIT SHUTDOWN DIAGRAM

NOT TO SCALE

AGENCY APPROVAL

1906

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

CONSULTANTS

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 913.961.1658
email: info@atiumeng.com

PROFESSIONAL STAMP



REVISIONS

#		
-	02-24-2023	DSA SUBMITTAL
-	04-11-2024	DSA SUBMITTAL
A	04-11-2024	ADDENDUM 1

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

PROJECT OWNER & TITLE

MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Concord, CA 94519

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

SHEET TITLE

GENERAL INFORMATION

INCREMENT: INC.1

DRAWN BY: JOB NUMBER:

SHEET NO.

1F401

DATE: DECEMBER 06, 2023

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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 1T-600) (2 1T-600)
G	GROUND BOX	EXISTING	EXISTING	N/A
J	JUNCTION BOX	COMMERCIAL GENERIC	N/A	GREY = EXISTING (8 1T-601)
– – – – –	UNDERGROUND CONDUIT	EXISTING	EXISTING	N/A
———	CONDUIT (EMT & GRC)	COMMERCIAL GENERIC	N/A	GREY = EXISTING (11 1T-600) (12 1T-600) (13 1T-600)
E	CONDUIT STUB	COMMERCIAL GENERIC	N/A	GREY = EXISTING
2300	SURFACE RACEWAY	WIREMOLD	WM2300	GREY = EXISTING (1 1T-601)
J J J	J-HOOK (SINGLE/STACKED)	PANDUIT	SEE 27 05 00	GREY = EXISTING (3 1T-600)
5400	SURFACE RACEWAY	WIREMOLD	WM5400	COORDINATE W/ ELEC., GREY = (E) (1 1T-601)
#	CAT6A DATA DROP LOCATION (# = QTY) - DATA PERMANENT LINK	PANDUIT	SEE 27 10 00	N/A (7 1T-601)
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 1T-601) (6 1T-601)
AP	CEILING MOUNTED WIRELESS ACCESS POINT	ARUBA	SEE 27 21 00	OFCI
WP AP	CAT6A DATA DROP LOCATION (QTY = 2) - EXTERIOR WIRELESS ACCESS POINT	PANDUIT	SEE 27 10 00	N/A (4 1T-602)
WP AP	EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT	ARUBA	SEE 27 21 00	OFCI
W	CAT6A DATA DROP LOCATION (QTY = 1) - IP PHONE	PANDUIT	SEE 27 10 00	+48 AFF, PHONE PLATE (9 1T-601)
W	PHONE HANDSET EQUIPMENT (WALL MOUNT)	POLY	SEE 27 21 00	OFCI
CAM-# TYPE	CAT6A DATA DROP LOCATION (QTY = 1) - NETWORK CAMERA	PANDUIT	SEE 27 15 00	N/A
CAM-# TYPE	NETWORK CAMERA	AXIS	SEE 28 20 00	OFCI (0 1T-600) (2 1T-601) (1 1T-602) (2 1T-602)
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 1T-600) (8 1T-600)
DC	CAT6A DATA DROP LOCATION - DROP CEILING INTERCOM SPKR/IP MOD	ATLAS	SEE SHEET 1T-701	OFCI
DC	CAT6A DATA DROP LOCATION (QTY = 1) - IP CLOCK/SPEAKER/IP MODULE COMBO BOX	ATLAS	SEE SHEET 1T-701	OFCI (6 1T-600)
	CAT6A DATA DROP LOCATION - WALL MOUNTED SPEAKER/IP MODULE	ATLAS	SEE SHEET 1T-701	OFCI (3 1T-600)
WP	CAT6A DATA DROP LOCATION - EXTERIOR INTERCOM SPEAKER/IP MODULE	ATLAS	SEE SHEET 1T-701	OFCI (4 1T-600)
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 1T-600) (15 1T-601) (16 1T-601) (17 1T-601) (18 1T-601) (19 1T-601)
BMS	BMS SYSTEM	EXISTING	EXISTING	N/A

INTRUSION SYMBOL LEGEND:

ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL / PART NUMBER	NOTES / DETAIL REFERENCES
IACP	INTRUSION ALARM CONTROL PANEL	BOSCH	D9412GV4	EXISTING
	CONTROL PANEL ENCLOSURE	BOSCH	D8103	EXISTING
	CONTROL PANEL ENCLOSURE LOCK/KEY	BOSCH	D101	EXISTING
	DUAL BATTERY HARNESS	BOSCH	D122	EXISTING
	POWER SUPPLY / ENCLOSURE	BOSCH	D1640/D8109	EXISTING
	POPEX LOOP MODULE	BOSCH	B299	N/A
	BATTERY 12VDC, 8 AH	POWERSONIC	PS-1280	N/A
KP	ALPHANUMERIC KEYPAD	BOSCH	B930	N/A
	MOTION DETECTOR, WALL MOUNT	BOSCH	ZX935Z	N/A (10 1T-600) (20 1T-600)
	WALL MOUNT GIMBLE	DSC	DM-W	
DC	DOOR CONTACT	GEORGE RISK INDUSTRIES	195-12WG	N/A
	POPIT MODULE	BOSCH	D9127U	
	CABLE 18AWG/2-CONDUCTOR - INTERIOR	WEST PENN	224	COLOR = WHITE
	CABLE 18AWG/2-CONDUCTOR - OSP	WEST PENN	AQ-224	N/A
	CABLE 18AWG/4-CONDUCTOR - INTERIOR	WEST PENN	244	COLOR = GRAY
	CABLE 18AWG/4-CONDUCTOR - OSP	WEST PENN	AQ-244	N/A

TECHNOLOGY SCOPE OF WORK:

1. THE CONTRACTOR SHALL FULLY RE-CABLE THE DATA NETWORK, INCLUDING COPPER AND FIBER, UTILIZING A COMBINATION OF NEW AND EXISTING PATHWAY.
2. 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: 04/03/2024

MEP COMPONENT ANCHORAGE NOTE:

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

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

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

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK AND ELECTRICAL SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTIONS 13,3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5,13.6.6, 13.6.7, 13.6.8 AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTIONS SYSTEM ARE A NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MP ☐ MD ☐ PP ☐ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #)

PROJECT CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AND STANDARDS EFFECTIVE JANUARY 1, 2022:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CCR, TITLE 24, PART 1
2022 CALIFORNIA BUILDING CODE (CBC), CCR, TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), CCR, TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), CCR, TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE, WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), CCR, TITLE 24, PART 5 (2018 UNIFORM PLUMBING CODE, WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6
2022 CALIFORNIA FIRE CODE (CFC), CCR, TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, PART 11
2022 CALIFORNIA REFERENCED STANDARDS CODE, CCR, TITLE 24, PART 12
2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION

PROJECT NOTES:

PRODUCT ORDERING
1. ANY PRODUCTS WITH LONG LEAD TIMES SHALL BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION.
2. PRODUCT ORDERING SHALL ONLY OCCUR AFTER APPROVED PRODUCT SUBMITTALS, APPROVED SUBSTITUTION REQUEST (IF ANY) AND APPROVED SHOP DRAWINGS.

INSTALLATION
1. ANY DISCREPANCIES BETWEEN THE DESIGN DOCUMENTS AND GOVERNING CODE / STANDARDS SHALL BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION.
2. A STAMPED SET OF APPROVED DESIGN DOCUMENTS AND SHOP DRAWINGS SHALL BE ONSITE AT ALL TIMES.
3. CONTRACTOR SHALL CONSTANTLY MAINTAIN ONSITE REDLINE DRAWINGS AND BE AVAILABLE FOR INSPECTION BY THE INSPECTOR OF RECORD.
4. ANY PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRE MATERIALS / EQUIPMENT APPROVED TO MAINTAIN THE RATING OF THE ASSEMBLY.
5. ALL WIRING SHALL BE CONNECTED TO DEVICES, NO SPLICING IS ALLOWED.
6. ALL LOW-VOLTAGE CABLING SHALL BE IN CONDUIT, RACEWAY OR OPEN AIR ON J-HOOKS / CABLE TRAY OR 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
1T-000	TECHNOLOGY INFRASTRUCTURE COVER SHEET
1T-010	TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO
1T-020	TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO
1T-021	TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO
1T-100	TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW
1T-200	TECHNOLOGY INFRASTRUCTURE FLOOR PLANS NEW
1T-201	TECHNOLOGY INFRASTRUCTURE FLOOR PLANS NEW
1T-300	TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW
1T-301	TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW
1T-700	TECHNOLOGY INFRASTRUCTURE SINGLE LINES
1T-701	TECHNOLOGY INFRASTRUCTURE SINGLE LINES
1T-800	TECHNOLOGY INFRASTRUCTURE DETAILS
1T-801	TECHNOLOGY INFRASTRUCTURE DETAILS
1T-802	TECHNOLOGY INFRASTRUCTURE DETAILS

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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION
1	ADD-001	2024-04-11

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PROJECT OWNER & TITLE

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

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

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE COVER SHEET
INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.

1T-000

DATE: JANUARY 10, 2024

CONSTRUCTION DOCUMENTS

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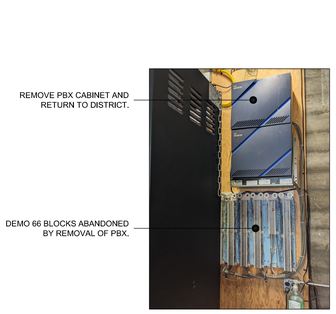
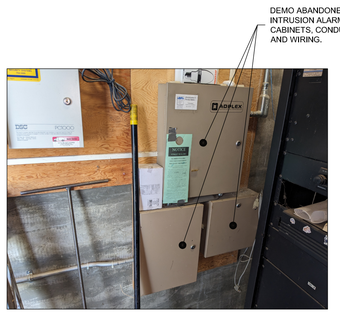
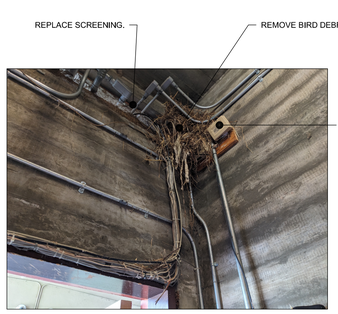








PANEL ROOM PICTURE DETAIL

SCALE: NONE

SHEET NOTES:

1. PROVIDE AND INSTALL BATTERY POWERED, WIRELESS ATOMIC SWEEP HAND CLOCKS IN ALL INC. 2 CLASSROOMS PRIOR TO DEMO OF THE CLOCK HEADEND EQUIPMENT. INSTALL ON WALL ADJACENT TO THE (E) CLOCK LOCATION.
2. INSTALL OWNER-FURNISHED VOIP PHONES IN ALL INC. 2 CLASSROOMS AND ADMIN AREAS PRIOR TO DEMO OF ANY (E) ANALOG PHONE SYSTEM COMPONENTS. UTILIZE ANY AVAILABLE (E) DATA DROP.
3. REMOVE BIRD DEBRIS.
4. REPLACE THE SCREENING TO THE EXTERIOR.
5. DEMO THE PHONE HEADEND. RETURN THE PBX CABINETS TO THE DISTRICT.
6. DEMO (E) CAMERA, MOUNT, CABLING, AND SURFACE RACEWAY. PATCH AND PREP FOR PAINT, AND PROVIDE (N) BLANKING PLATES AND/OR END CAPS FOR ALTERED SURFACE RACEWAY.

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.
11. CONTRACTOR TO REMOVE AND DISPOSE OF ALL CABLE OPEN-RUN AND STAPLED TO BUILDING EXTERIOR. REMOVE CABLE FROM ENDPOINT TO ENDPOINT. PATCH PENETRATIONS AND PREP FOR PAINT. SEE PICTURE DETAIL.
12. CONTRACTOR TO REMOVE AND DISPOSE OF ALL ABANDONED OR INACTIVE INTRUSION SYSTEM COMPONENTS INCLUDING ABANDONED RACEWAY, CABINETS, AND WIRING.





OPEN-RUN EXTERIOR CABLE PICTURE DETAIL

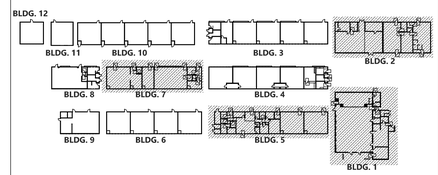
SCALE: NONE

TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO

SCALE: 1"=20'

0 20 40

KEY PLAN



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

REVISIONS

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SHEET TITLE
TECHNOLOGY INFRASTRUCTURE SITE PLAN DEMO
INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.
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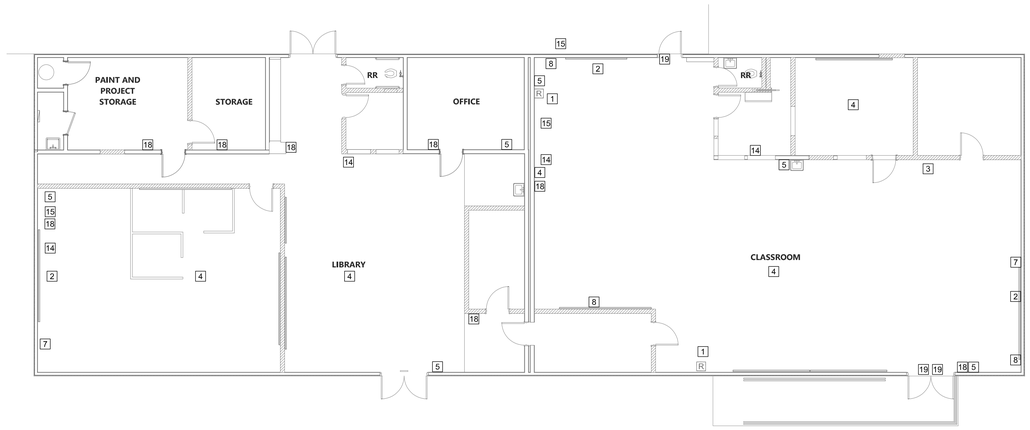
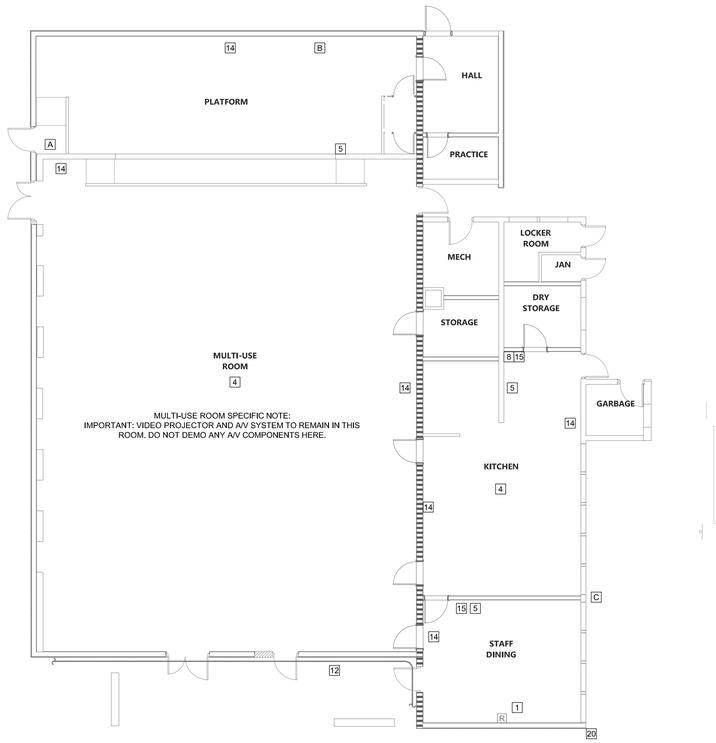


TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING 2

SCALE: 1/8"=1'

0 4 8 12 16



MULTI-USE ROOM SPECIFIC NOTE:
IMPORTANT: VIDEO PROJECTOR AND A/V SYSTEM TO REMAIN IN THIS ROOM. DO NOT DEMO ANY A/V COMPONENTS HERE.

TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING 1

SCALE: 1/8"=1'

0 4 8 12 16

GENERAL NOTES:

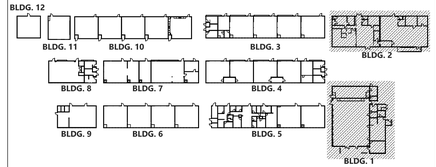
1. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) DATA NETWORK COPPER AND FIBER CABLING FROM ENDPOINT TO ENDPOINT, INCLUDING WITHIN CONDUITS AND PULL BOXES.
2. CONTRACTOR TO REMOVE AND DISPOSE OF ALL (E) ANALOG TELEPHONE CABLING FROM WALL PLATES TO 66-BLOCKS. PROVIDE BLANK WALL PLATE AT ALL LOCATIONS, RETURN 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.

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. (E) VIDEO PROJECTOR, MOUNT, LOW VOLTAGE CABLING, INPUT PLATE, AND SCREEN, AS OCCURS. REMOVE SURFACE RACEWAY SERVING PROJECTOR LOCATION.
3. DEMO (E) LCD TV, INCLUDING MOUNT, WALL CONTROLLER, INPUT PLATE, AND LOW VOLTAGE CABLING.
4. DEMO (E) WIRELESS AP, MOUNT, CABLING, AND SURFACE RACEWAY.
5. DEMO (E) ANALOG TELEPHONE, WALL PLATE, AND WIRING TO SOURCE. PROVIDE (N) BLANK WALL PLATE.
6. DEMO (E) NETWORK SWITCH ON SHELF OR WALL BRACKET, AS OCCURS. DEMO ALL (E) DATA DROPS TERMINATING AT THIS NETWORK SWITCH.
7. DEMO (E) LAPTOP DESK WALL UNIT.
8. DEMO (E) CCTV CAMERA, MOUNT, CONDUIT OR RACEWAY, AND CABLING TO SOURCE.
9. PRIOR TO DEMO, RELOCATE (E) MDF RACK, INCLUDING ALL EQUIPMENT AND CABLING, TO ADJACENT WALL. ALL (E) DATA DROPS AND FIBER CONNECTIONS SHALL BE MAINTAINED OPERATIONAL FOR NORMAL CAMPUS FUNCTION DURING THE CONSTRUCTION PERIOD.
10. AS REQUIRED, RE-ROUTE DATA DROPS FED THROUGH "PANEL" ROOM TO TEMPORARY MDF CABINET LOCATION VIA (N) CONDUIT TO AVOID CONSTRUCTION AREA.
11. PRIOR TO DEMO, RELOCATE THE (E) NVR SERVERS AND RACK TO TEMPORARY LOCATION IN COORDINATION WITH THE DISTRICT REPRESENTATIVE.
12. PRIOR TO DEMO, RELOCATE (E) IDF RACK, INCLUDING ALL EQUIPMENT AND CABLING, TO INTERIM LOCATION WHERE INDICATED. ALL (E) DATA DROPS SHALL BE MAINTAINED OPERATIONAL FOR NORMAL CAMPUS FUNCTION DURING THE CONSTRUCTION PERIOD.
13. DEMO (E) EXTERIOR CONDUIT AND J-BOXES FEEDING CAMERA(S) AT THIS LOCATION. WATERPROOF PENETRATIONS.
14. DEMO (E) CLOCK, BACKBOX, CONDUIT, AND CABLE TO HEADEND. PATCH AND PREP FOR PAINT.
15. DEMO (E) SPEAKER. DEMO INTERCOM CABLE TO HEADEND. REMOVE BACKBOX FROM WALL. PATCH AND PREP FOR PAINT.
16. DEMO (E) ANALOG CLOCK POWER SUPPLY, WIRING, J-BOXES, AND PENETRATIONS THROUGH WALL. SAFE OFF POWER, AS REQ'D.
17. DEMO ALL (E) ANALOG CLOCK CABLING, CONDUITS, GUTTERS, AND J-BOXES, THIS LOCATION.
18. DEMO (E) MOTION DETECTOR, BACKBOX, CONDUIT, AND CABLING TO SOURCE.
19. DEMO (E) DOOR CONTACT, JUNCTION BOX, CONDUIT, AND CABLING TO SOURCE.
20. DEMO ABANDONED AERIAL CABLE TO POLE. PATCH EXTERIOR PENETRATIONS AND MAKE WATERPROOF.

DEMO SHEET NOTES:		
LOCATION	TAG ID	DESCRIPTION
A	233977	1 EA. CAT3
B	233978	1 EA. CAT5
C	233821	1 EA. CAT3

KEY PLAN



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SHEET TITLE
TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO
INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.
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REWORK INTRUSION AND DATA CONDUITS SO THAT THEY WILL BE ABOVE T-BAR HEIGHT.

IACP.

IACP AND DATA CONDUIT REWORK PICTURE DETAIL

SCALE: NONE



DEMO 3 EA. CLOCK CONDUITS.

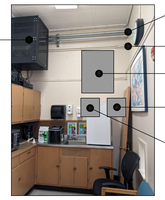
DEMO GUTTER.

DEMO CLOCK AND SPEAKER.

DEMO J-BOX AND EXPOSED WIRING.

CLOCK HEADEND DEMO AT OFFICE PICTURE DETAIL

SCALE: NONE



(E) MDF CABINET TO BE RELOCATED.

DATA CONDUIT, INTERCEPT AND RE-WORK TO INTERIM MDF LOCATION.

INTRUSION CONDUIT, INTERCEPT AND RE-WORK TO (N) IACP LOCATION.

INTERIM MDF LOCATION.

RELOCATED IACP POWER SUPPLY.

RELOCATED IACP.

INTERIM MDF PICTURE DETAIL

SCALE: NONE



INTERCEPT (E) DATA CABLING. PULL BACK TO THIS LOCATION AND ROUTE TO INTERIM IDF.

INTERIM IDF LOCATION - CABINET RELOCATED FROM LIBRARY.

BREAK OUT ROOM PICTURE DETAIL

SCALE: NONE

INTERIM IDF SCOPE OF WORK:

PRIOR TO DEMO, THE CONTRACTOR SHALL:

1. CAREFULLY COORDINATE DOWNTIME FOR THE IDF RELOCATION WITH THE DISTRICT REPRESENTATIVE.
2. IDENTIFY THE (E) DATA DROPS SERVING CLASSROOMS B1, B6, B7, B8, B9, B10.
3. IDENTIFY THE FIBER LINK TO THE MDF.
4. PULL BACK AND RELOCATE THE CABLES IDENTIFIED IN #2-#3 TO THE INTERIM IDF LOCATION. MAINTAIN ALL AVAILABLE CABLE LENGTH AS A SERVICE LOOP. DO NOT SHORTEN ANY OF THE CABLES.
5. RELOCATE THE IDF WALL CABINET FROM THE (E) LOCATION TO THE INTERIM LOCATION IDENTIFIED ON THE FLOOR PLAN. CAREFULLY REMOVE AND REINSTALL ALL OF THE ACTIVE EQUIPMENT.
6. RETERMINATE AND TEST THE DATA DROPS IDENTIFIED IN #2.
7. RE-PATCH SUCH THAT THE DATA DROPS AND FIBER LINKS ARE MADE OPERATIONAL.
8. PROTECT THE INTERIM IDF IN PLACE FOR THE DURATION OF THE CONSTRUCTION PERIOD.

ONCE THE NEW IDF IS BUILT OUT, THE CONTRACTOR SHALL:

9. CAREFULLY COORDINATE DOWNTIME FOR THE (N) IDF CUTOVER WITH THE DISTRICT REPRESENTATIVE.
10. PULL BACK AND RELOCATE THE CABLES IDENTIFIED IN #2 TO THE (N) IDF RACK.
11. REMOVE THE INTERIM MDF RACK AND RETURN ACTIVE EQUIPMENT TO THE DISTRICT SUBJECT TO THE GENERAL NOTES.
12. DEMO THE FIBER FROM THE INTERIM IDF LOCATION TO THE MDF.

IACP RELOCATION SCOPE OF WORK:

PRIOR TO DEMO, THE CONTRACTOR SHALL:

1. CAREFULLY COORDINATE DOWNTIME FOR THE INTRUSION SYSTEM WITH THE DISTRICT REPRESENTATIVE.
2. NOTE ANY FAULTS ON THE INTRUSION PANEL PRIOR TO PERFORMING WORK. PROMPTLY BRING THESE FAULTS TO THE DISTRICT REPRESENTATIVE'S ATTENTION.
3. RELOCATE THE IACP AND POWER SUPPLY TO THE NEW LOCATION AS NOTED IN THE INTERIM MDF PICTURE DETAIL.
4. REWORK ALL (E) WIRING TO THE NEW IACP LOCATION, AS REQ'D. IF IT IS NECESSARY TO EXTEND WIRING, INSTALL A J-BOX ABOVE THE T-BAR HEIGHT AND UTILIZE TERMINAL STRIPS.
5. PROVIDE (N) 4-PAIR COPPER FEEDER FROM THE IACP TO THE MPOE FOR ANALOG DIALTONE.
6. PROVIDE (N) DATA CONNECTION FROM THE IACP TO THE INTERIM MDF.
7. PERFORM A FULL TEST OF THE SYSTEM AND RESOLVE ANY FAULTS.

INTERIM MDF SCOPE OF WORK:

PRIOR TO DEMO, THE CONTRACTOR SHALL:

1. CAREFULLY COORDINATE DOWNTIME FOR THE MDF RELOCATION WITH THE DISTRICT REPRESENTATIVE.
2. IDENTIFY THE (E) DATA DROPS SERVING CLASSROOMS A1, A2, A3, A4 AND A5.
3. IDENTIFY THE (E) FIBER SERVING THE IDFS IN ROOM 707, STORAGE 306, AND CLASSROOM C1.
4. IDENTIFY THE FIBER LINK TO THE MPOE.
5. PULL BACK AND RELOCATE THE CABLES IDENTIFIED IN #1-#4 TO THE INTERIM MDF LOCATION. MAINTAIN ALL AVAILABLE CABLE LENGTH AS A SERVICE LOOP. DO NOT SHORTEN ANY OF THE CABLES.
6. RELOCATE THE MDF WALL CABINET FROM THE (E) LOCATION TO THE INTERIM LOCATION IDENTIFIED ON THE FLOOR PLAN. CAREFULLY REMOVE AND REINSTALL ALL OF THE ACTIVE EQUIPMENT.
7. RETERMINATE AND TEST THE DATA DROPS IDENTIFIED IN #1.
8. RE-PATCH SUCH THAT THE DATA DROPS, FIBER LINKS AND THE SERVICE FROM THE MPOE IS MADE OPERATIONAL.
9. PROTECT THE INTERIM MDF IN PLACE FOR THE DURATION OF THE CONSTRUCTION PERIOD.

ONCE THE NEW MDF IS BUILT OUT, THE CONTRACTOR SHALL:

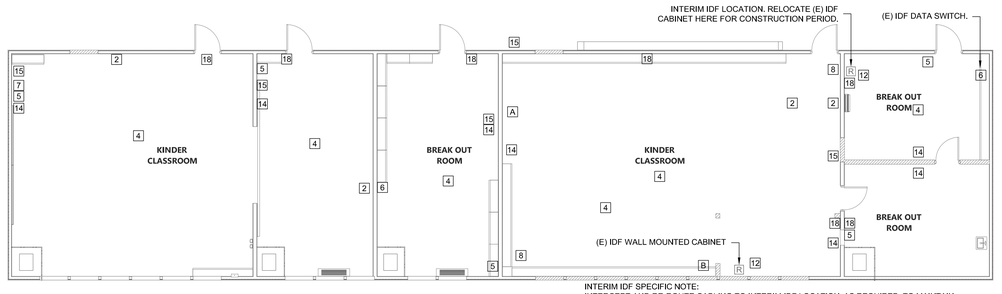
10. CAREFULLY COORDINATE DOWNTIME FOR THE (N) MDF CUTOVER WITH THE DISTRICT REPRESENTATIVE.
11. PULL BACK AND RELOCATE THE CABLES IDENTIFIED IN #1-#4 TO THE (N) MDF RACK. IT SHALL BE ACCEPTABLE TO EXTEND THESE CABLES UTILIZING A KEYSTONE JACK AND PATCH CABLE, IF REQUIRED.
12. RELOCATE THE (E) FIBER LIUS TERMINATING THE CABLES IDENTIFIED IN #3 TO THE (N) MDF RACK.
13. RELOCATE THE SERVICE PROVIDER EQUIPMENT FROM THE INTERIM MDF RACK TO THE (N) MDF RACK. RELOCATE THE FIBER FROM THE MPOE TO THE (N) MDF RACK.
14. RETERMINATE AND TEST THE DATA DROPS IDENTIFIED IN #1,
15. RE-PATCH SUCH THAT THE DATA DROPS, FIBER LINKS, AND SERVICE FROM THE MPOE IS MADE OPERATIONAL.
16. REMOVE THE INTERIM MDF RACK AND RETURN ACTIVE EQUIPMENT TO THE DISTRICT SUBJECT TO THE GENERAL NOTES.

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.

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. (E) VIDEO PROJECTOR, MOUNT, LOW VOLTAGE CABLING, INPUT PLATE, AND SCREEN, AS OCCURS. REMOVE SURFACE RACEWAY SERVING PROJECTOR LOCATION.
3. DEMO (E) LCD TV, INCLUDING MOUNT, WALL CONTROLLER, INPUT PLATE, AND LOW VOLTAGE CABLING.
4. DEMO (E) WIRELESS AP, MOUNT, CABLING, AND SURFACE RACEWAY.
5. DEMO (E) ANALOG TELEPHONE, WALL PLATE, AND WIRING TO SOURCE. PROVIDE (N) BLANK WALL PLATE.
6. DEMO (E) NETWORK SWITCH ON SHELF OR WALL BRACKET, AS OCCURS. DEMO ALL (E) DATA DROPS TERMINATING AT THIS NETWORK SWITCH.
7. DEMO (E) LAPTOP DESK WALL UNIT.
8. DEMO (E) CCTV CAMERA, MOUNT, CONDUIT OR RACEWAY, AND CABLING TO SOURCE.
9. PRIOR TO DEMO, RELOCATE (E) MDF RACK, INCLUDING ALL EQUIPMENT AND CABLING, TO ADJACENT WALL. ALL (E) DATA DROPS AND FIBER CONNECTIONS SHALL BE MAINTAINED OPERATIONAL FOR NORMAL CAMPUS FUNCTION DURING THE CONSTRUCTION PERIOD.
10. AS REQUIRED, RE-ROUTE DATA DROPS FED THROUGH "PANEL" ROOM TO TEMPORARY MDF CABINET LOCATION VIA (N) CONDUIT TO AVOID CONSTRUCTION AREA.
11. PRIOR TO DEMO, RELOCATE THE (E) NVR SERVERS AND RACK TO TEMPORARY LOCATION IN COORDINATION WITH THE DISTRICT REPRESENTATIVE.
12. PRIOR TO DEMO, RELOCATE (E) IDF RACK, INCLUDING ALL EQUIPMENT AND CABLING, TO INTERIM LOCATION WHERE INDICATED. ALL (E) DATA DROPS SHALL BE MAINTAINED OPERATIONAL FOR NORMAL CAMPUS FUNCTION DURING THE CONSTRUCTION PERIOD.
13. DEMO (E) EXTERIOR CONDUIT AND J-BOXES FEEDING CAMERA(S) AT THIS LOCATION. WATERPROOF PENETRATIONS.
14. DEMO (E) CLOCK, BACKBOX, CONDUIT, AND CABLE TO HEADEND. PATCH AND PREP FOR PAINT.
15. DEMO (E) SPEAKER, DEMO INTERCOM CABLE TO HEADEND. REMOVE BACKBOX FROM WALL. PATCH AND PREP FOR PAINT.
16. DEMO (E) ANALOG CLOCK POWER SUPPLY, WIRING, J-BOXES, AND PENETRATIONS THROUGH WALL. SAFE OFF POWER, AS REQ'D.
17. DEMO ALL (E) ANALOG CLOCK CABLING, CONDUITS, GUTTERS, AND J-BOXES, THIS LOCATION.
18. DEMO (E) MOTION DETECTOR, BACKBOX, CONDUIT, AND CABLING TO SOURCE.
19. DEMO (E) DOOR CONTACT, JUNCTION BOX, CONDUIT, AND CABLING TO SOURCE.
20. DEMO ABANDONED AERIAL CABLE TO POLE. PATCH EXTERIOR PENETRATIONS AND MAKE WATERPROOF.

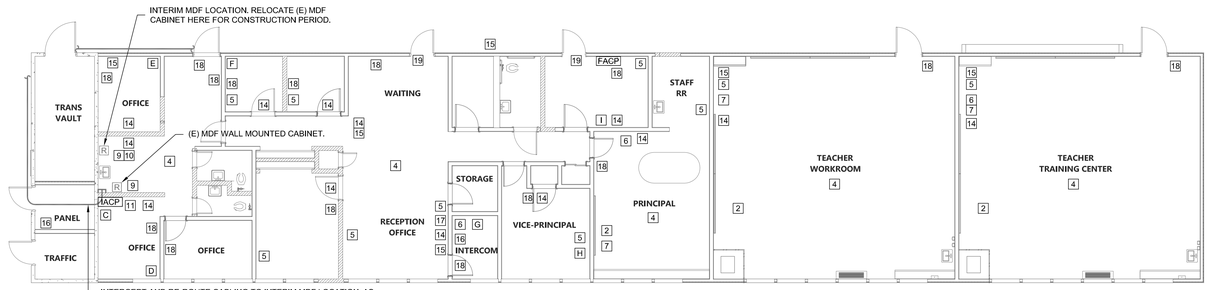


INTERIM IDF SPECIFIC NOTE:
INTERCEPT AND RE-ROUTE CABLING TO INTERIM IDF LOCATION, AS REQUIRED, TO MAINTAIN OPERATIONS DURING CONSTRUCTION PERIOD.
THE FOLLOWING CABLING WILL NOT BE DEMOED THIS INCREMENT, AND WILL NEED TO BE RE-ROUTED AND MAINTAINED OPERATIONAL, INITIALLY AT THE INTERIM IDF LOCATION, AND THEN AT THE (N) IDF LOCATION;
- FIBER TO MDF
- EXISTING DATA CABLING TO CLASSROOMS B1, B6, B7, B8, B9, B10.

TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING 7

SCALE: 1/8"=1'

0 4 8 12 16



INTERCEPT AND RE-ROUTE CABLING TO INTERIM MDF LOCATION, AS REQUIRED, TO MAINTAIN OPERATIONS DURING CONSTRUCTION PERIOD.
THE FOLLOWING CABLING WILL NOT BE DEMOED THIS INCREMENT, AND WILL NEED TO BE RE-ROUTED AND MAINTAINED OPERATIONAL, INITIALLY AT THE INTERIM MDF LOCATION, AND THEN AT THE (N) MDF LOCATION:
- FIBER TO MPOE
- EXISTING DATA CABLING TO CLASSROOMS A1, A2, A3, A4, AND A5.
- EXISTING FIBER LINKS TO IDFS IN ROOM 707, STORAGE 306, AND CLASSROOM C1

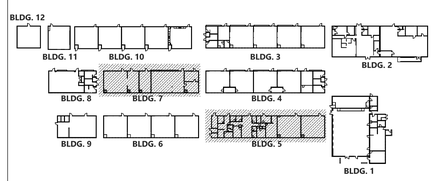
TECHNOLOGY INFRA. FLOOR PLAN DEMO - BUILDING 5

SCALE: 1/8"=1'

0 4 8 12 16

DEMO SHEET NOTES:		
LOCATION	TAG ID	DESCRIPTION
A	233980	2 EA. CAT5
B	233979	1 EA. CAT3
C	233842	5 EA. CAT5
	233843	1 EA. CAT5
D	233841	1 EA. 25-PAIR, 2 EA. CAT3, BISCUIT
E	233844	1 EA. 25-PAIR
F	233845	1 EA. 25-PAIR, 1 EA. DISTRIBUTION BLOCK
G	233846	9 EA. CAT5
	233847	3 EA. CAT5
	233848	1 EA. CAT5
	233849	3 EA. THHN
H	233850	1 EA. 25-PAIR, 1 EA. DISTRIBUTION BLOCK
I	233975	1 EA. CAT3
	233976	1 EA. CAT3

KEY PLAN



AGENCY APPROVAL DSA#

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

REVISIONS

NO.	DATE	DESCRIPTION
1	ADD-001	2024-04-11

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

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

SHEET TITLE
TECHNOLOGY INFRASTRUCTURE FLOOR PLANS DEMO
INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.
1T-021
DATE: JANUARY 10, 2024

CONSTRUCTION DOCUMENTS

FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2022/23118_MTDUSD_RIO VISTA ES MOD_A23.rvt

DATE PLOTTED: 12/6/2023 5:51:28 PM

SHEET NOTES:

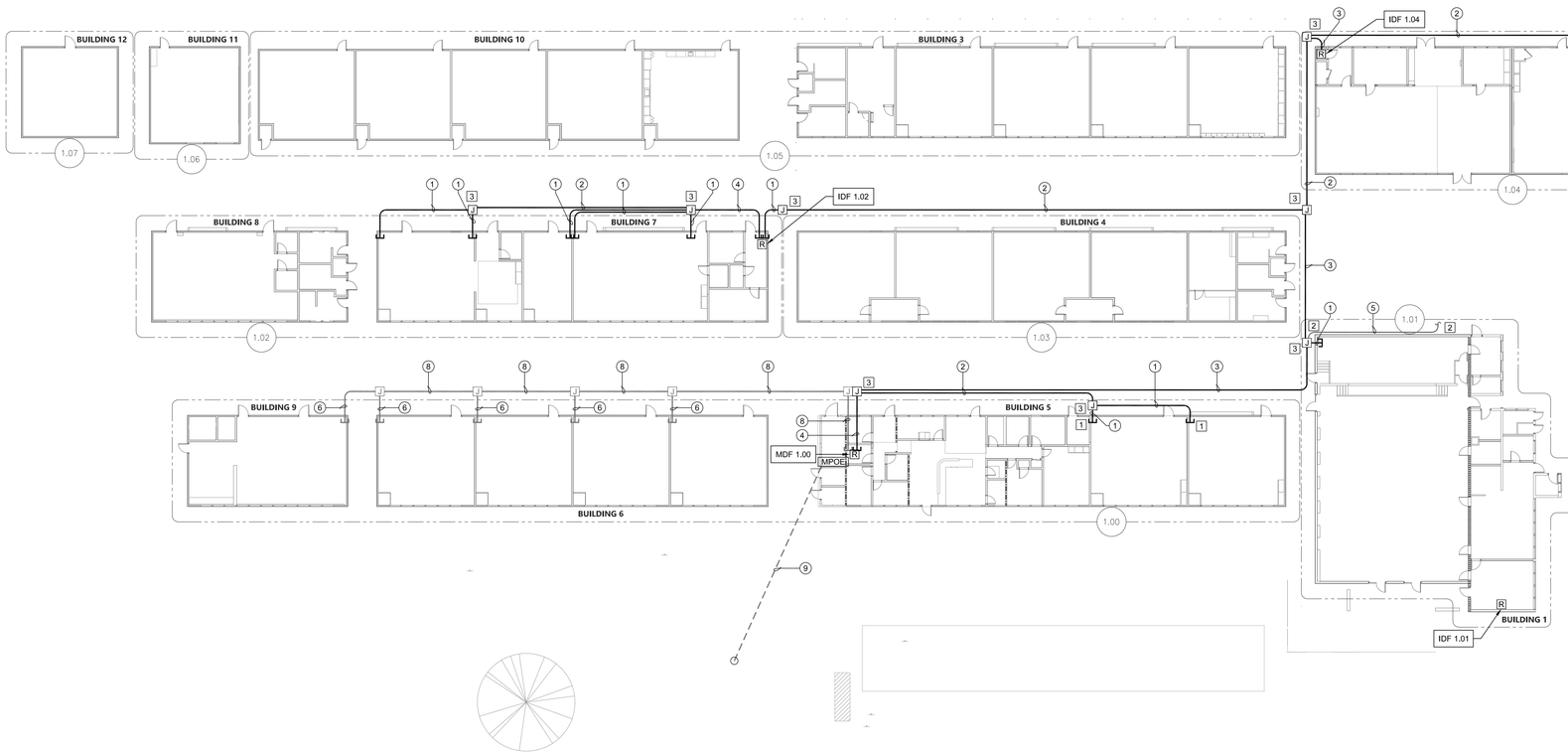
1. REUSE (E) J-BOX AND WALL PENETRATION. PROVIDE (N) 2" CONDUIT TO J-BOX.
2. INTERCEPT (E) CONDUIT SERVING HVAC UNIT AND REWORK TO (N) J-BOX AT LOCATION INDICATED. PROVIDE 1 EA. (N) CAT6A DATA DROP AT HVAC UNIT.
3. PROVIDE 1 EA. (N) NEMA 4 J-BOX WITH CONTINUOUS HINGE LID AND CLAMP STYLE CLOSURE MOUNTED ON DURA-BLOCKS. SEE DETAIL 8/1T-801.

CONDUIT QTY. AND SIZE:

1. (N) 1 EA. 2" CONDUITS.
2. (N) 2 EA. 2" CONDUITS.
3. (N) 3 EA. 2" CONDUITS.
4. (N) 4 EA. 2" CONDUITS.
5. (E) 1 EA. 3/4" CONDUITS.
6. (E) 1 EA. 1-1/4" CONDUITS.
7. (E) 1 EA. 2" CONDUITS.
8. (E) 2 EA. 2" CONDUITS.
9. (E) 1 EA. 1-1/2" CONDUITS (AT&T) TO POLE.

GENERAL NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL ALL PATHWAY, CABLING, ENCLOSURES, MOUNTS, TERMINATIONS, AND ACCESSORIES REQUIRED FOR COMPLETE AND FULLY OPERATIONAL TECHNOLOGY SYSTEMS.
2. CONTRACTOR TO INSTALL AND MAKE OPERATIONAL ALL OWNER-FURNISHED ACTIVE EQUIPMENT AS NOTED IN THE PLANS AND SPECIFICATIONS.
3. ALL ACTIVE EQUIPMENT FURNISHED BY THE OWNER WILL BE PROGRAMMED BY THE OWNER.
4. EXTERIOR BACKBONE CONDUIT WALL PENETRATIONS ARE EXISTING OR NEW AT AT 110', TYP. NO STRUCTURAL BEAMS SHALL BE ALTERED OR PENETRATED.

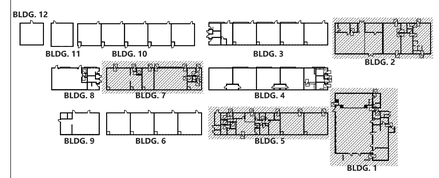


TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW

SCALE: 1"=20'

0 20 40

KEY PLAN



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

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1936 Carlotta Dr. Concord
Concord, CA 94519

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

SHEET TITLE
TECHNOLOGY INFRASTRUCTURE SITE PLAN NEW
INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.
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DATE: JANUARY 10, 2024

CONSTRUCTION DOCUMENTS

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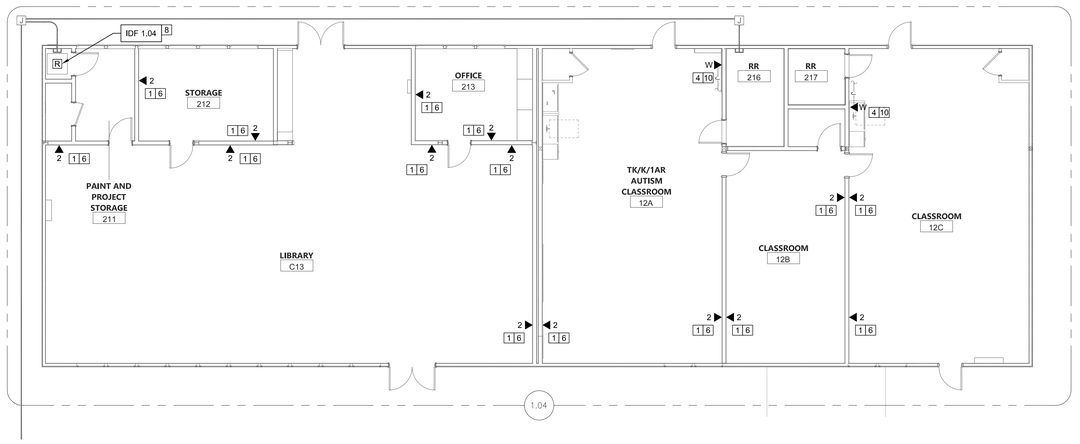

TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING 2

SCALE: 1/8"=1'

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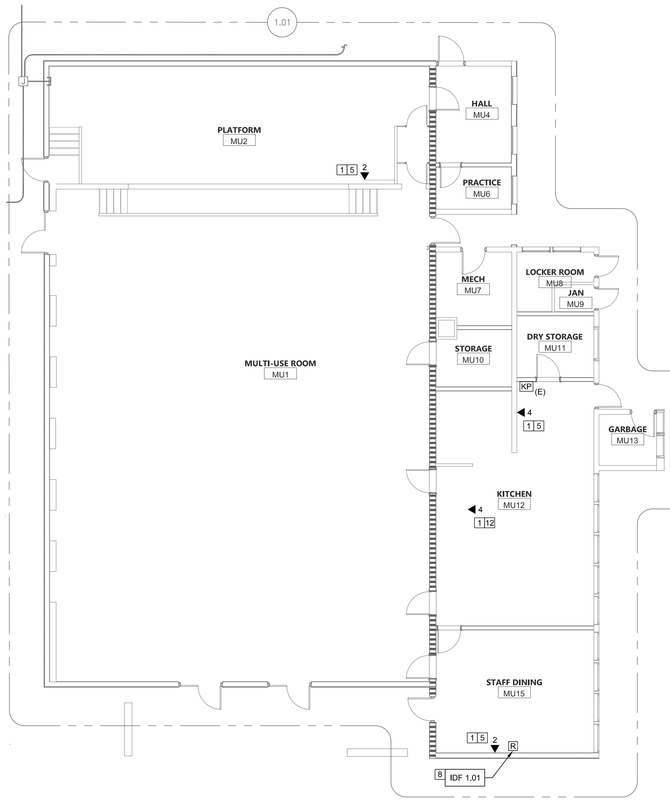


TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING 1

SCALE: 1/8"=1'

0 4 8 12 16

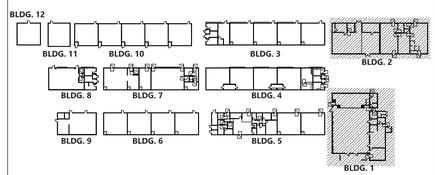
GENERAL NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL ALL PATHWAY, CABLING, ENCLOSURES, MOUNTS, TERMINATIONS, AND ACCESSORIES REQUIRED FOR COMPLETE AND FULLY OPERATIONAL TECHNOLOGY SYSTEMS.
2. CONTRACTOR TO INSTALL AND MAKE OPERATIONAL ALL OWNER-FURNISHED ACTIVE EQUIPMENT AS NOTED IN THE PLANS AND SPECIFICATIONS.
3. ALL ACTIVE EQUIPMENT FURNISHED BY THE OWNER WILL BE PROGRAMMED BY THE OWNER.
4. EXTERIOR BACKBONE CONDUIT WALL PENETRATIONS ARE EXISTING OR NEW AT AT 11'0", TYP. NO STRUCTURAL BEAMS SHALL BE ALTERED OR PENETRATED.

SHEET NOTES:

1. PROVIDE (N) CAT6A DATA DROP, QUANTITY INDICATED.
2. ROUTE (N) CABLING VIA (N) SURFACE RACEWAY (BY ELEC.) TO EXTERIOR BACKBONE. PROVIDE (N) DATA PLATES AND DATA PLATE RACEWAY ADAPTERS.
3. PROVIDE (N) BACKBOX AND 1" CONDUIT STUB FROM DEVICE LOCATION TO NEAREST ACCESSIBLE CEILING.
4. PROVIDE (N) CUT IN BOX AND FISH CABLE TO ACCESSIBLE CEILING.
5. PROVIDE (N) WIREMOLD SURFACE BOX AND WIREMOLD SURFACE RACEWAY, AS PER PLAN. PROVIDE (N) DATA PLATES.
6. PROVIDE (N) FLUSH BACKBOX AND 1" CONDUIT STUB FROM DEVICE LOCATION TO NEAREST DATA J-BOX.
7. PROVIDE (N) CUT IN BOX AND FISH CABLE TO (N) SURFACE RACEWAY ON OPPOSITE FACE OF WALL.
8. PROVIDE (N) IDF ENCLOSURE. SEE SINGLE LINE FOR DETAILS.
9. PROVIDE (N) MDF RACK, (N) LADDER RACKING, AND OTHER MDF EQUIPMENT AS REQUIRED. SEE SINGLE LINE FOR DETAILS.
10. PROVIDE (N) 1 EA. CAT6A DATA DROP FOR WALL MOUNTED VOIP PHONE WITH PHONE HANGER WALL PLATE.
11. PROVIDE (N) CUT IN BOX AT WALL PHONE LOCATION, FISH CABLE BETWEEN (N) CUT IN BOX AND WM5400.
12. PROVIDE (N) WIREMOLD VERTICAL DROP ALUMINUM POLE BETWEEN CEILING AND SERVING COUNTER COMPUTER LOCATION.
13. MOUNT OWNER-PROVIDED VOIP PHONE HANDSET ON WALL HANGER PLATE,UTILIZE MFG. PROVIDED WALL MOUNT HARDWARE AND PATCH CABLE.
14. INSTALL OWNER-PROVIDED INTERCOM CONSOLE PHONE AT ADMIN DESK.
15. PROVIDE (N) CAT6A DATA DROP AT (E) FACP PANEL.
16. PROVIDE (N) CAT6A DATA DROP AT RELOCATED IACP PANEL.
17. PROVIDE (N) 4 PAIR COPPER FEEDER TO MPOE.
18. PROVIDE (N) CAT6A DATA DROP AT (E) BMS PANEL.
19. PROVIDE 2 EA. (N) CAT6A DATA DROP AT (E) BOGEN INTERCOM HEADEND.
20. PROVIDE 1 EA. (N) CAT6A DATA DROP AT (E) VIDEO INTERCOM.
21. PROVIDE 1 EA. (N) CAT6A DATA DROP AT (E) MARQUEE ON WALL.

KEY PLAN



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INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.
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DATE: JANUARY 10, 2024

CONSTRUCTION DOCUMENTS

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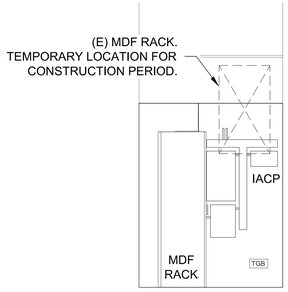

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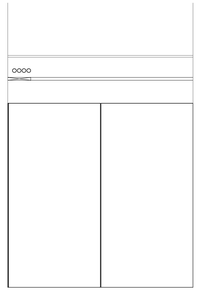

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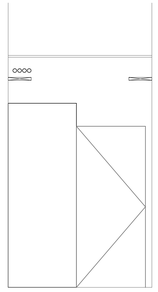

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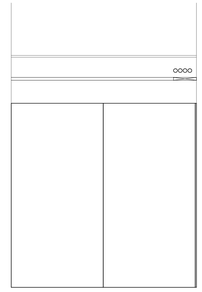
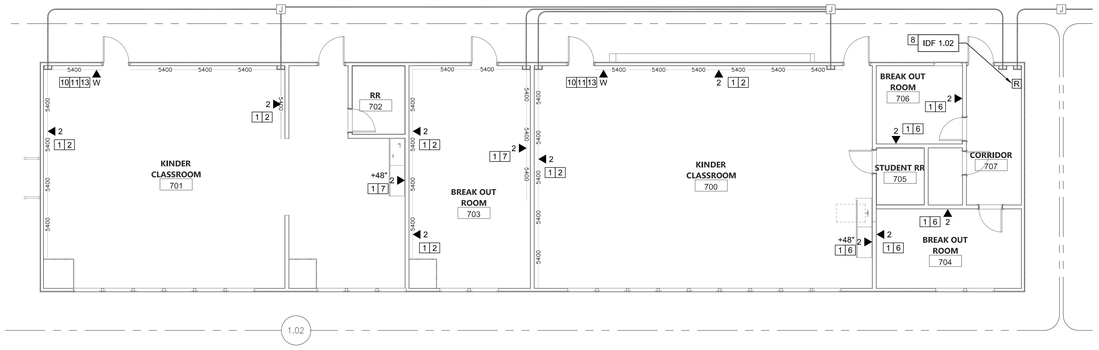


4 SOUTH INTERIOR ELEVATION

MDF 1.00 INTERIOR ELEVATIONS

SCALE: 3/8"=1'

0 2 4



TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING 7

SCALE: 1/8"=1'

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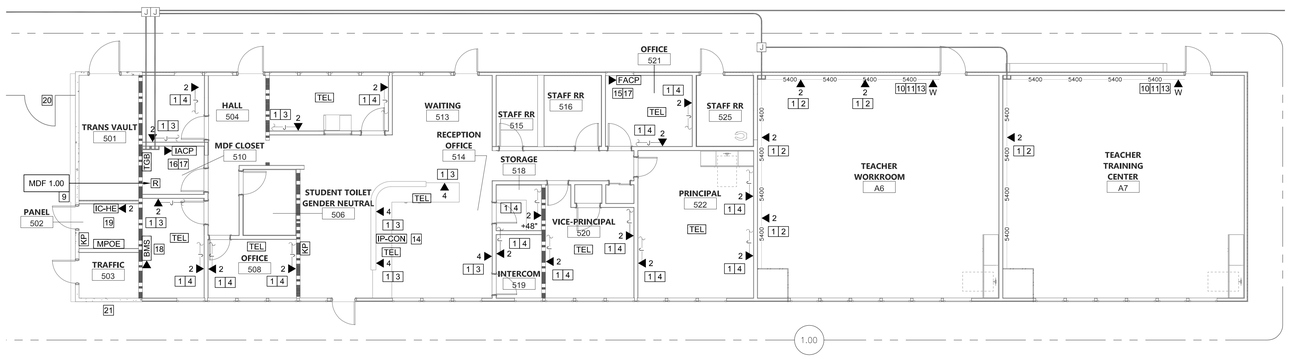


TECHNOLOGY INFRA. FLOOR PLAN NEW - BUILDING 5

SCALE: 1/8"=1'

0 4 8 12 16

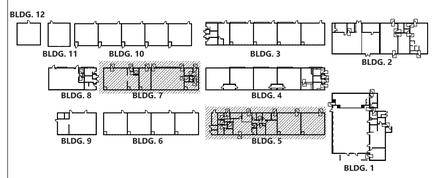
GENERAL NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL ALL PATHWAY, CABLING, ENCLOSURES, MOUNTS, TERMINATIONS, AND ACCESSORIES REQUIRED FOR COMPLETE AND FULLY OPERATIONAL TECHNOLOGY SYSTEMS.
2. CONTRACTOR TO INSTALL AND MAKE OPERATIONAL ALL OWNER-FURNISHED ACTIVE EQUIPMENT AS NOTED IN THE PLANS AND SPECIFICATIONS.
3. ALL ACTIVE EQUIPMENT FURNISHED BY THE OWNER WILL BE PROGRAMMED BY THE OWNER.
4. EXTERIOR BACKBONE CONDUIT WALL PENETRATIONS ARE EXISTING OR NEW AT AT 11'0", TYP. NO STRUCTURAL BEAMS SHALL BE ALTERED OR PENETRATED.

SHEET NOTES:

1. PROVIDE (N) CAT6A DATA DROP, QUANTITY INDICATED.
2. ROUTE (N) CABLING VIA (N) SURFACE RACEWAY (BY ELEC.) TO EXTERIOR BACKBONE. PROVIDE (N) DATA PLATES AND DATA PLATE RACEWAY ADAPTERS.
3. PROVIDE (N) BACKBOX AND 1" CONDUIT STUB FROM DEVICE LOCATION TO NEAREST ACCESSIBLE CEILING.
4. PROVIDE (N) CUT IN BOX AND FISH CABLE TO ACCESSIBLE CEILING.
5. PROVIDE (N) WIREMOLD SURFACE BOX AND WIREMOLD SURFACE RACEWAY, AS PER PLAN. PROVIDE (N) DATA PLATES.
6. PROVIDE (N) FLUSH BACKBOX AND 1" CONDUIT STUB FROM DEVICE LOCATION TO NEAREST DATA J-BOX.
7. PROVIDE (N) CUT IN BOX AND FISH CABLE TO (N) SURFACE RACEWAY ON OPPOSITE FACE OF WALL.
8. PROVIDE (N) IDF ENCLOSURE. SEE SINGLE LINE FOR DETAILS.
9. PROVIDE (N) MDF RACK, (N) LADDER RACKING, AND OTHER MDF EQUIPMENT AS REQUIRED. SEE SINGLE LINE FOR DETAILS.
10. PROVIDE (N) 1 EA. CAT6A DATA DROP FOR WALL MOUNTED VOIP PHONE WITH PHONE HANGER WALL PLATE.
11. PROVIDE (N) CUT IN BOX AT WALL PHONE LOCATION, FISH CABLE BETWEEN (N) CUT IN BOX AND WM5400.
12. PROVIDE (N) WIREMOLD VERTICAL DROP ALUMINUM POLE BETWEEN CEILING AND SERVING COUNTER COMPUTER LOCATION.
13. MOUNT OWNER-PROVIDED VOIP PHONE HANDSET ON WALL HANGER PLATE.UTILIZE MFG. PROVIDED WALL MOUNT HARDWARE AND PATCH CABLE.
14. INSTALL OWNER-PROVIDED INTERCOM CONSOLE PHONE AT ADMIN DESK.
15. PROVIDE (N) CAT6A DATA DROP AT (E) FACP PANEL.
16. PROVIDE (N) CAT6A DATA DROP AT RELOCATED IACP PANEL.
17. PROVIDE (N) 4 PAIR COPPER FEEDER TO MPOE.
18. PROVIDE (N) CAT6A DATA DROP AT (E) BMS PANEL.
19. PROVIDE 2 EA. (N) CAT6A DATA DROP AT (E) BOGEN INTERCOM HEADEND.
20. PROVIDE 1 EA. (N) CAT6A DATA DROP AT (E) VIDEO INTERCOM.
21. PROVIDE 1 EA. (N) CAT6A DATA DROP AT (E) MARQUEE ON WALL.

KEY PLAN



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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION
1	ADD-001	2024-04-11

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

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

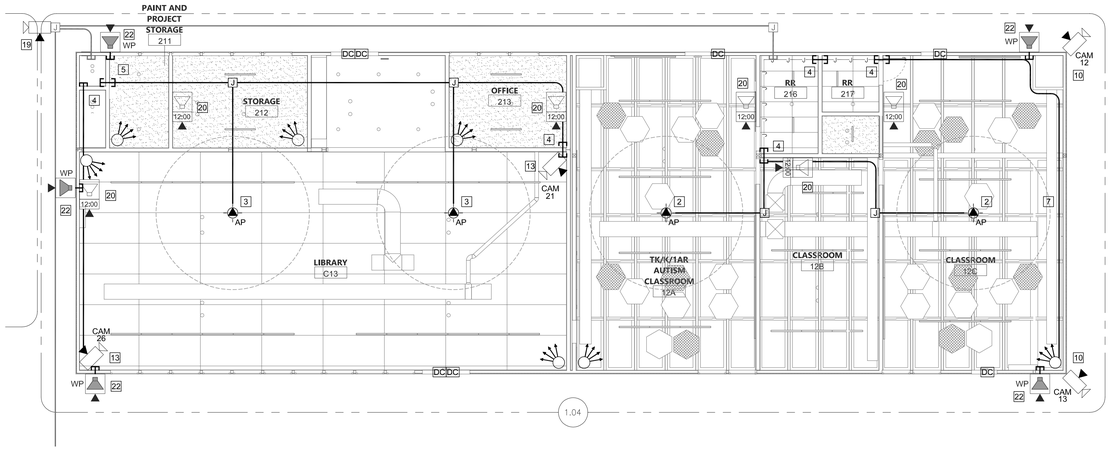
SHEET TITLE
TECHNOLOGY INFRASTRUCTURE FLOOR PLANS NEW
INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.
1T-201
DATE: JANUARY 10, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/6/2023 5:51:28 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118 _MTDUSD_RIO VISTA ES MOD_A23.rvt



TECHNOLOGY INFRA. RCP NEW - BUILDING 2

SCALE: 1/8"=1'

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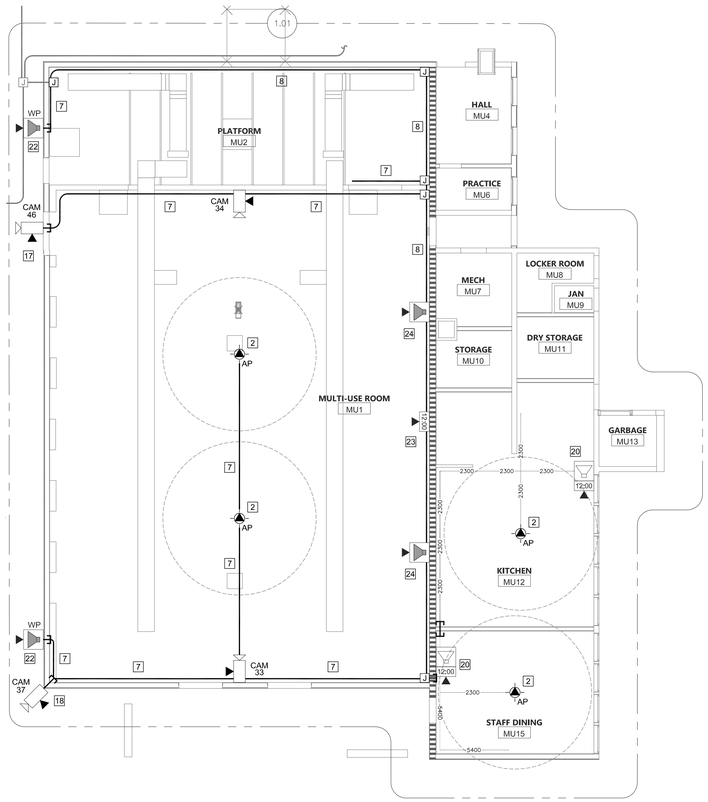


TECHNOLOGY INFRA. RCP NEW - BUILDING 1

SCALE: 1/8"=1'

0 4 8 12 16

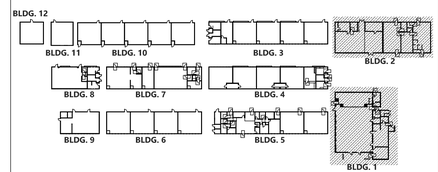
GENERAL NOTES:

1. ALL EQUIPMENT TO BE NEW, CONTRACTOR FURNISHED, AND CONTRACTOR INSTALLED, UNO.

SHEET NOTES:

1. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT ACCESSIBLE CEILING. INSTALL OWNER-PROVIDED AP. SEE DETAIL.
2. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT HARD LID CEILING. PROVIDE (N) EMT CONDUIT FROM NEAREST DATA J-BOX. INSTALL OWNER-PROVIDED AP. SEE DETAIL.
3. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT DECORATIVE CEILING. PROVIDE (N) BACKBOX AND 1" CONDUIT STUB FROM DEVICE LOCATION TO NEAREST ACCESSIBLE CEILING.
4. PROVIDE (N) 1 EA. 2" CONDUITS ABOVE CEILING.
5. PROVIDE (N) 2 EA. 2" CONDUITS ABOVE CEILING.
6. PROVIDE (N) 4 EA. 2" CONDUITS ABOVE CEILING.
7. PROVIDE (N) 1 EA. 1" CONDUITS.
8. PROVIDE (N) 1 EA. 2" CONDUITS.
9. REMOVE (E) CAMERA PRIOR TO EXTERIOR PAINTING. PROVIDE (N) CAT6A DATA DROP VIA (E) PATHWAY. RE-MOUNT CAMERA AND MAKE WATERPROOF. RE-AIM CAMERA IN PRESENCE OF DISTRICT REPRESENTATIVE.
10. REMOVE (E) CAMERA PRIOR TO EXTERIOR PAINTING. PROVIDE (N) CAT6A DATA DROP VIA (N) PATHWAY. RE-MOUNT CAMERA AND MAKE WATERPROOF. SEE DETAIL. RE-AIM CAMERA IN PRESENCE OF DISTRICT REPRESENTATIVE.
11. PROVIDE (N) PENETRATION FROM CAMERA BACKBOX THROUGH WALL TO INTERIOR. DO NOT REUSE (E) EXTERIOR PATHWAY.
12. REMOVE (E) CAMERA PRIOR TO INTERIOR PAINTING. PROVIDE (N) CAT6A DATA DROP VIA (E) PATHWAY. RE-MOUNT CAMERA. RE-AIM CAMERA IN PRESENCE OF DISTRICT REPRESENTATIVE.
13. PROVIDE (N) 1 EA. CAT6A DATA DROP FOR CAMERA. INSTALL OWNER-PROVIDED CAMERA. SEE DETAIL. AIM CAMERA IN PRESENCE OF DISTRICT REPRESENTATIVE.
14. PROVIDE (N) 1 EA. 3/4" CONDUITS.
15. PROVIDE (N) BACKBOX AND 1" CONDUIT STUB FROM CAMERA LOCATION TO NEAREST ACCESSIBLE CEILING.
16. PROVIDE (N) LADDER RACKING INCLUDING ALL MOUNTING, FITTINGS, AND TRANSITIONS FOR A COMPLETE CABLE MANAGEMENT SYSTEM BETWEEN THE CONDUIT PENETRATIONS AND THE MDF RACK.
17. PROVIDE (N) CAT6A DATA DROP AND (N) WALL MOUNT FOR OWNER-PROVIDED PANORAMIC NETWORK CAMERA. SEE DETAIL. CONFIRM MOUNTING HEIGHT AND VIEWS WITH DISTRICT REPRESENTATIVE PRIOR TO INSTALLATION.
18. PROVIDE (N) CAT6A DATA DROP AND (N) CEILING MOUNT FOR OWNER-PROVIDED PANORAMIC NETWORK CAMERA. SEE DETAIL. CONFIRM MOUNTING HEIGHT AND VIEWS WITH DISTRICT REPRESENTATIVE PRIOR TO INSTALLATION.
19. PROVIDE (N) CAT6A DATA DROP AND (N) FLUSH CANOPY MOUNT FOR OWNER-PROVIDED MULTIDIRECTIONAL NETWORK CAMERA. SEE DETAIL. CONTRACTOR TO CONFIRM WITH DISTRICT REPRESENTATIVE THAT CAMERA VIEWS ARE NOT OBSTRUCTED PRIOR TO INSTALLATION.
20. 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.
21. PROVIDE (N) CUT IN BOX AT DEVICE LOCATION AND FISH CABLE FROM ACCESSIBLE CEILING.
22. 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.
23. PROVIDE (N) 1 EA. CAT6A DATA DROP FOR LARGE 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.
24. 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.

KEY PLAN



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SHEET TITLE

TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW

INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.

1T-300

DATE: JANUARY 10, 2024

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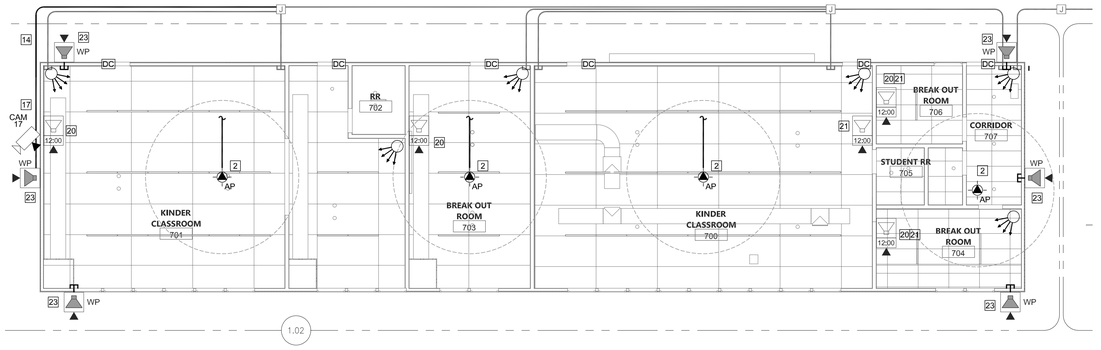

TECHNOLOGY INFRA. RCP NEW - BUILDING 7

SCALE: 1/8"=1'

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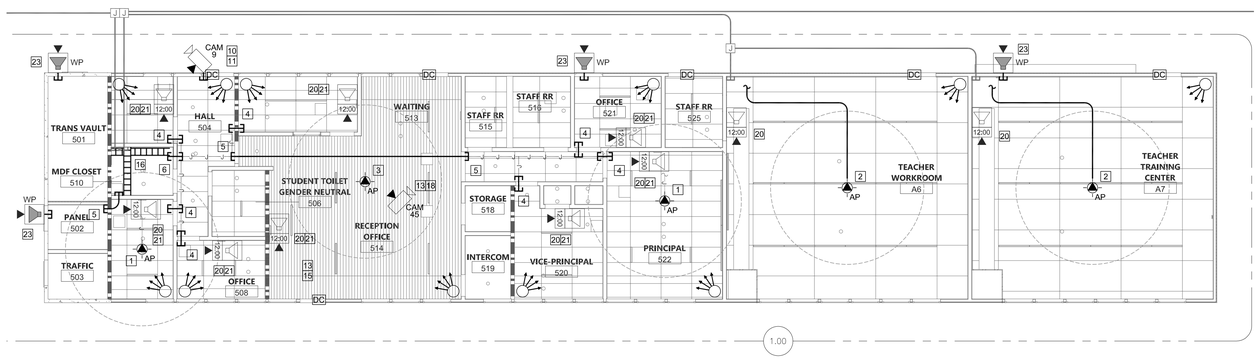

TECHNOLOGY INFRA. RCP NEW - BUILDING 5

SCALE: 1/8"=1'

0 4 8 12 16

GENERAL NOTES:

1. ALL EQUIPMENT TO BE NEW, CONTRACTOR FURNISHED, AND CONTRACTOR INSTALLED, UNO.

SHEET NOTES:

1. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT ACCESSIBLE CEILING. INSTALL OWNER-PROVIDED AP, SEE DETAIL.
2. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT HARD LID CEILING. PROVIDE (N) EMT CONDUIT FROM NEAREST DATA J-BOX. INSTALL OWNER-PROVIDED AP. SEE DETAIL.
3. PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP AT DECORATIVE CEILING. PROVIDE (N) BACKBOX AND 1" CONDUIT STUB FROM DEVICE LOCATION TO NEAREST ACCESSIBLE CEILING.
4. PROVIDE (N) 1 EA. 2" CONDUITS ABOVE CEILING.
5. PROVIDE (N) 2 EA. 2" CONDUITS ABOVE CEILING.
6. PROVIDE (N) 4 EA. 2" CONDUITS ABOVE CEILING.
7. PROVIDE (N) 1 EA. 1" CONDUITS.
8. PROVIDE (N) 1 EA. 2" CONDUITS.
9. REMOVE (E) CAMERA PRIOR TO EXTERIOR PAINTING. PROVIDE (N) CAT6A DATA DROP VIA (E) PATHWAY. RE-MOUNT CAMERA AND MAKE WATERPROOF. RE-AIM CAMERA IN PRESENCE OF DISTRICT REPRESENTATIVE.
10. REMOVE (E) CAMERA PRIOR TO EXTERIOR PAINTING. PROVIDE (N) CAT6A DATA DROP VIA (N) PATHWAY. RE-MOUNT CAMERA AND MAKE WATERPROOF. SEE DETAIL. RE-AIM CAMERA IN PRESENCE OF DISTRICT REPRESENTATIVE.
11. PROVIDE (N) PENETRATION FROM CAMERA BACKBOX THROUGH WALL TO INTERIOR. DO NOT REUSE (E) EXTERIOR PATHWAY.
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13. PROVIDE (N) 1 EA. CAT6A DATA DROP FOR CAMERA. INSTALL OWNER-PROVIDED CAMERA. SEE DETAIL. AIM CAMERA IN PRESENCE OF DISTRICT REPRESENTATIVE.
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17. PROVIDE (N) CAT6A DATA DROP AND (N) WALL MOUNT FOR OWNER-PROVIDED PANORAMIC NETWORK CAMERA. SEE DETAIL. CONFIRM MOUNTING HEIGHT AND VIEWS WITH DISTRICT REPRESENTATIVE PRIOR TO INSTALLATION.
18. PROVIDE (N) CAT6A DATA DROP AND (N) CEILING MOUNT FOR OWNER-PROVIDED PANORAMIC NETWORK CAMERA. SEE DETAIL. CONFIRM MOUNTING HEIGHT AND VIEWS WITH DISTRICT REPRESENTATIVE PRIOR TO INSTALLATION.
19. PROVIDE (N) CAT6A DATA DROP AND (N) FLUSH CANOPY MOUNT FOR OWNER-PROVIDED MULTIDIRECTIONAL NETWORK CAMERA. SEE DETAIL. CONTRACTOR TO CONFIRM WITH DISTRICT REPRESENTATIVE THAT CAMERA VIEWS ARE NOT OBSTRUCTED PRIOR TO INSTALLATION.
20. 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.
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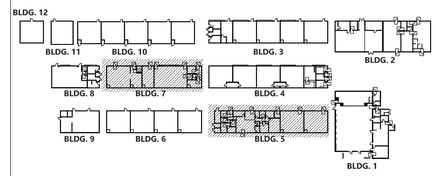
KEY PLAN



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SHEET TITLE

TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLANS NEW

INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.

1T-301

DATE: JANUARY 10, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/6/2023 5:51:28 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_A23.rvt

IDF 1.02 SPECIFIC NOTES:

1. THE PROJECT INVOLVES A COMPLETE REWORK AND REPLACEMENT OF THE (E) IDFS IN BUILDING 7 WITH ONE CONSOLIDATED IDF.
2. 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.
3. THE (E) IDFS SERVE COPPER TO PARTS OF THE SITE NOT INCLUDED IN THIS INCREMENT. THESE DATA CIRCUITS WILL BE TEMPED IN BY THE CONTRACTOR TO THE INTERIM IDF PRIOR TO DECOMMISSIONING OF THE (E) IDFS. THE CONTRACTOR SHALL PROVIDE ANY PATCH CABLES, ADAPTERS, CONNECTORS, AND OTHER SUCH PARTS AS REQUIRED TO KEEP THESE (E) DATA CIRCUITS OPERATIONAL.
4. ONCE THE (N) PERMANENT IDF 1.02 IS OPERATIONAL, THE CONTRACTOR SHALL TEMP IN THE (E) DATA CIRCUITS TO THE (N) IDF. FOR REPLACEMENT IN A FUTURE PROJECT INCREMENT. THE CONTRACTOR SHALL THEN REMOVE THE INTERIM IDF. THE CONTRACTOR SHALL PROVIDE ANY PATCH CABLES, ADAPTERS, CONNECTORS, AND OTHER SUCH PARTS AS REQUIRED TO KEEP THESE (E) DATA CIRCUITS OPERATIONAL..

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 COPPER AND FIBER TO PARTS OF THE SITE NOT INCLUDED IN THIS INCREMENT. THESE DATA CIRCUITS WILL BE TEMPED IN BY THE CONTRACTOR TO THE (N) MDF PRIOR TO DECOMMISSIONING OF THE (E) MDF. THE CONTRACTOR SHALL PROVIDE ANY PATCH CABLES, ADAPTERS, CONNECTORS, AND OTHER SUCH PARTS AS REQUIRED TO KEEP THESE (E) DATA CIRCUITS OPERATIONAL.
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.

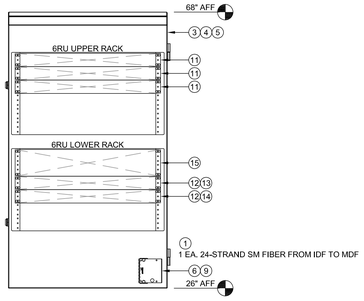
ALL IDF GENERAL NOTES:

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.

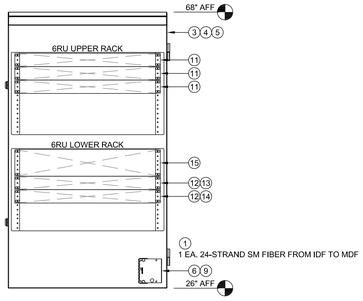
EQUIPMENT SCHEDULE:

ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)

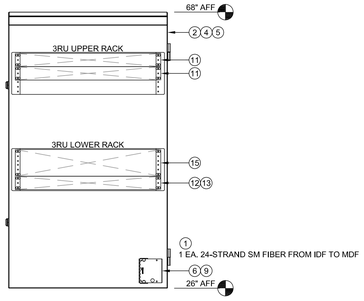
SYMBOL	DESCRIPTION	MFG/MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
1	24-STRAND SINGLE MODE FIBER, ARMORED	PANDUIT	FSLP924	N/A
2	TELECOMMUNICATIONS RACK, WALL VERTICAL 3U/3U	PANDUIT	WME3BL	N/A
3	TELECOMMUNICATIONS RACK, WALL VERTICAL 6U/6U	PANDUIT	WME6BL	N/A
4	FAN KIT FOR WALL VERTICAL RACK	PANDUIT	PZAEFAN	N/A
5	GROUND KIT FOR WALL VERTICAL RACK	PANDUIT	WMEGK	N/A
6	FIBER ENCLOSURE BRACKET FOR VERTICAL RACK	PANDUIT	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	JL659A	OFCI
	POWER SUPPLY		JL670A	OFCI
13	SFP+ MODULE	ARUBA	J9151E	OFCI
14	STACK CABLE	ARUBA	J9281D	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



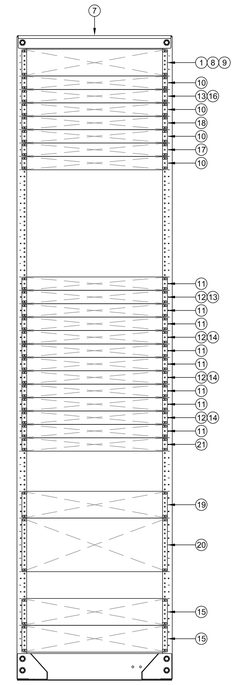
4 IDF 1.04 - BUILDING 2 ROOM 201



3 IDF 1.02 - BUILDING 7 ROOM 707



2 IDF 1.01 - BUILDING 1 ROOM 15



1 MDF 1.00 - BUILDING 5 ROOM 510

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PROFESSIONAL STAMP

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

REVISIONS

NO.	DATE	DESCRIPTION
1	ADD-001	2024-04-11

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

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

SHEET TITLE
TECHNOLOGY INFRASTRUCTURE SINGLE LINES
INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.
1T-700
DATE: JANUARY 10, 2024

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/6/2023 5:51:28 PM FILE LOCATION: Autodesk Docs://Mt. Diablo USD - Modernization Projects 2023/23118_MTDUSD_RIO VISTA ES MOD_A23.rvt

EQUIPMENT INTERCOM SCHEDULE:

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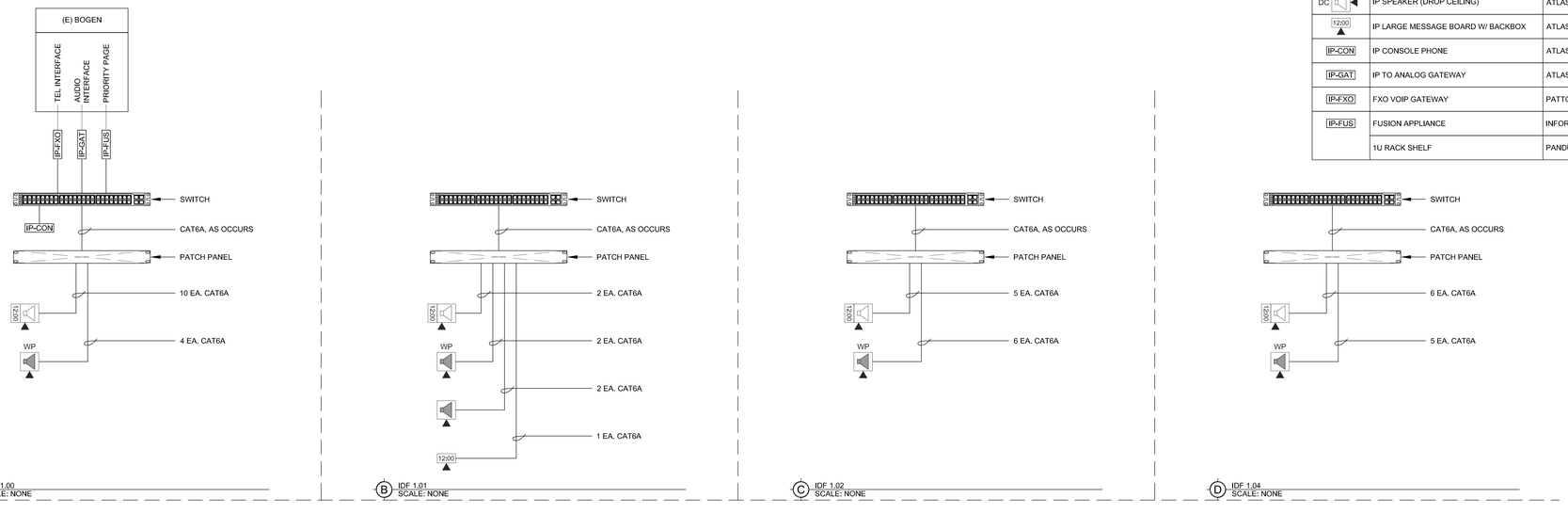
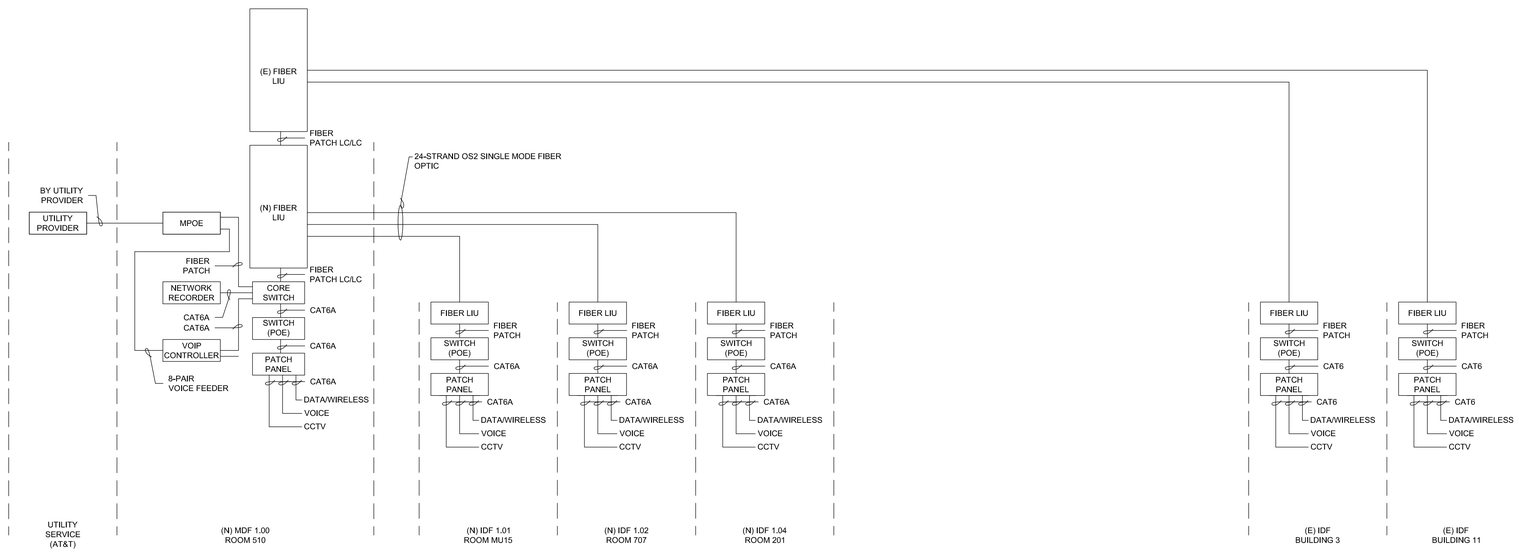
SYMBOL	DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
DC21	IP CLOCK/SPEAKER COMBO	ATLAS	IP-SDMF	OFCI
	SURFACE BACKBOX		IP-SEST-SD	N/A
WP	IP SPEAKER (EXTERIOR)	ATLAS	IP-HVP	OFCI
	SURFACE BACKBOX		IP-SEST-HVP	N/A
	IP SPEAKER	ATLAS	IP-SM	OFCI
	SURFACE BACKBOX		IP-SEST-SD	N/A
DC	IP SPEAKER (DROP CEILING)	ATLAS	IP-22SYSM	OFCI
12:00	IP LARGE MESSAGE BOARD W/ BACKBOX	ATLAS	IP-DM / IP-SEC-DM	OFCI
IP-CON	IP CONSOLE PHONE	ATLAS	IP-CONSOLE-GH	OFCI
IP-GAT	IP TO ANALOG GATEWAY	ATLAS	IP-ZCM1RMK	OFCI
IP-FXO	FXO VOIP GATEWAY	PATTON	SN4141/2JO2V/EUI	N/A
IP-FUS	FUSION APPLIANCE	INFORMACAST	IPTA-4FS	OFCI
	1U RACK SHELF	PANDUIT	SRM19FM1	N/A



2 INTERCOM NETWORK SINGLE LINE DIAGRAM
SCALE: NONE



1 DATA/VOICE/CCTV NETWORK SINGLE LINE DIAGRAM
SCALE: NONE

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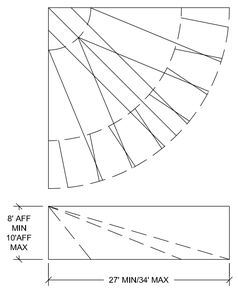
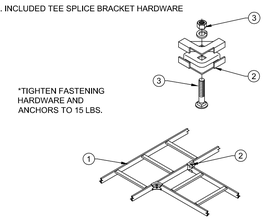


20 INTRUSION DETECTOR COVERAGE DETAIL
SCALE: NONE

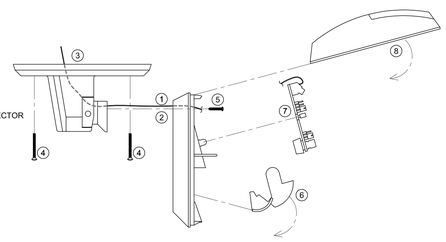
1. (N) 18" LADDER RACK ASSEMBLY
2. MOUNTING BRACKET FOR 90 DEGREE ATTACHMENT
3. MFR. INCLUDED TEE SPLICE BRACKET HARDWARE



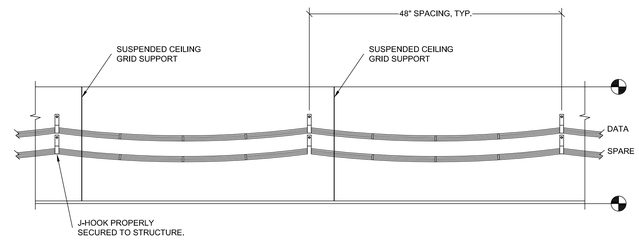
15 HORIZONTAL TEE SPLICE KIT DETAIL
SCALE: NONE

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

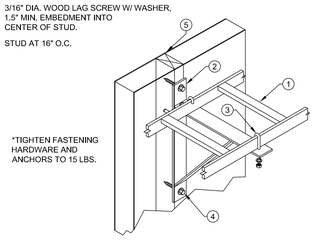


10 INTRUSION DETECTION SENSOR INSTALLATION ADJUSTABLE CEILING MOUNTING DETAIL
SCALE: NONE



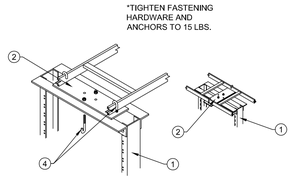
3 J-HOOK PATHWAY ABOVE CEILING DETAIL
SCALE: NONE

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.

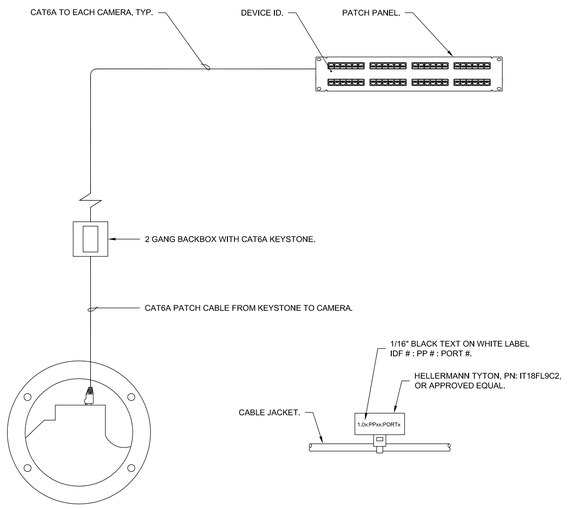


19 RUNWAY SIDE WALL SUPPORT DETAIL
SCALE: NONE

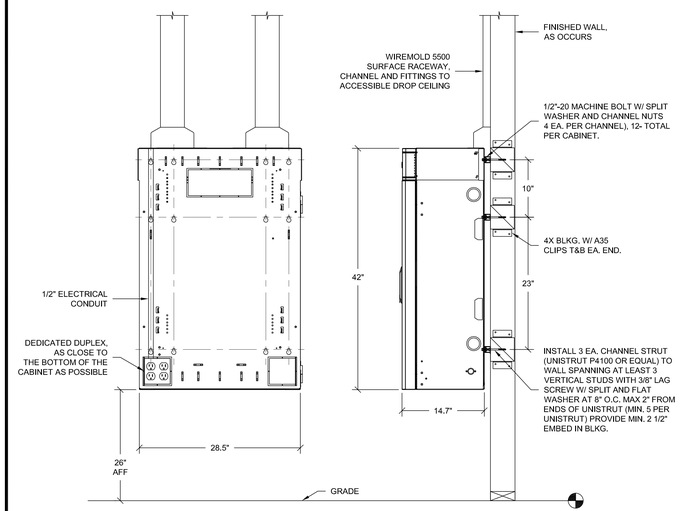
1. DATA RACK ASSEMBLIES
2. TOP PLATE MOUNTING BRACKET
3. MFR. INCLUDED TOP PLATE MOUNTING BRACKET, J-HOOK HARDWARE.



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 TELECOMMUNICATIONS 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



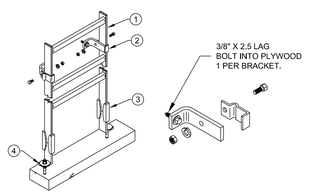
5 SURFACE MOUNTED INTERIOR INTERCOM SPEAKER DETAIL
SCALE: NONE



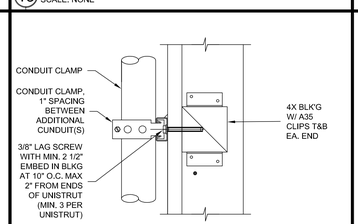
MAX LOADING: 2500LBS

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

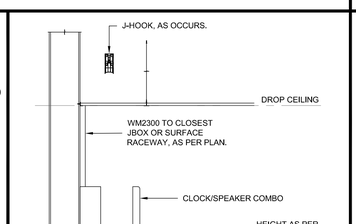


SCHEDULE 1.1

WALL TYPE	ANCHOR/FASTENER	MIN. EMBED
WOOD	3/8" HEX LAG SCREW	2"
LIGHT GAUGE	3/8"X3" STS	N/A
CMU/MASONRY *	3/8"	2-1/2"

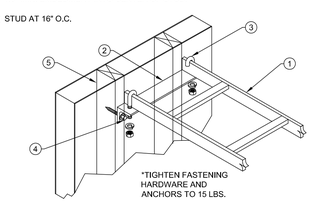
*HILTI KB TZ EXPANSION ANCHOR, LENGTH AS REQUIRED FOR MINIMUM EMBEDMENT

12 CONDUIT SUPPORT DETAIL - VERTICAL
SCALE: NONE



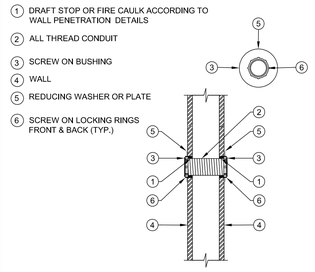
4 EXTERIOR INTERCOM SPEAKER MOUNTING DETAIL
SCALE: NONE

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.



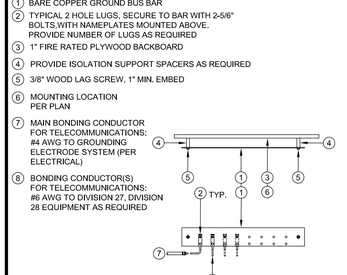
16 RUNWAY END WALL SUPPORT DETAIL
SCALE: NONE

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

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DRAWN BY: CC/JG JOB NUMBER: 23118.01

SHEET NO.
1T-800

DATE: JANUARY 10, 2024

CONSTRUCTION DOCUMENTS

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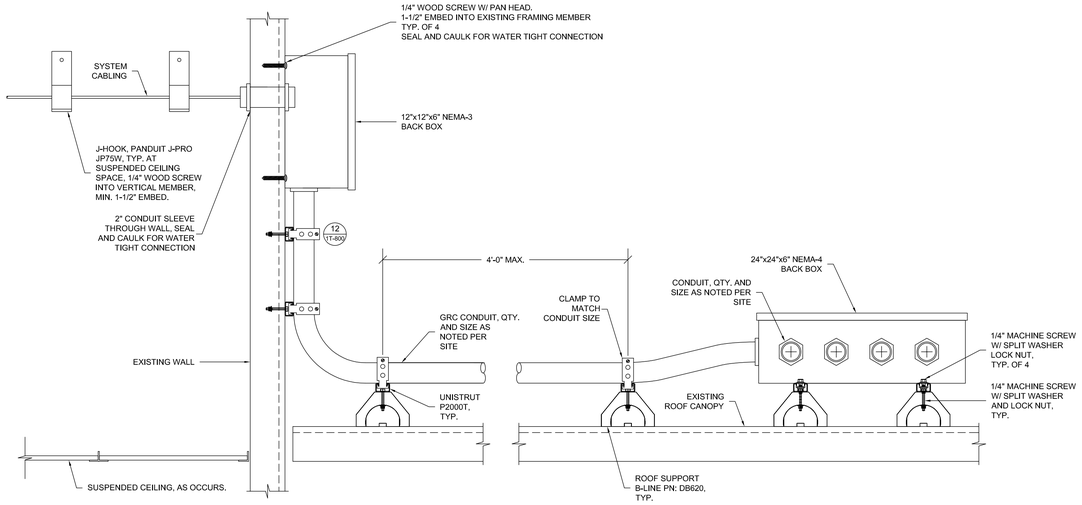
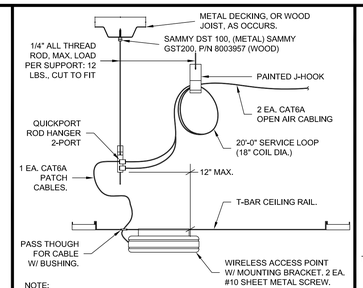
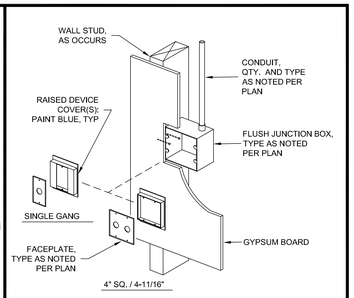


8 EXTERIOR CANOPY CONDUIT AND BACK BOX MOUNTING DETAIL

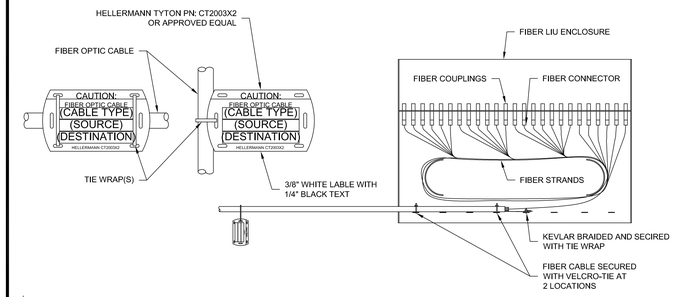


NOTE:
1) TOTAL ASSEMBLY WEIGHT UNDER 20 LBS.

5 WIRELESS ACCESS POINT ON METAL T-BAR CEILING MOUNTING DETAIL
SCALE: NONE



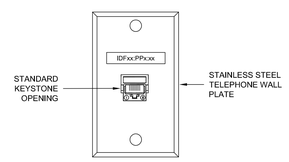
4 JUNCTION BOX, WALL MOUNT DETAIL
SCALE: NONE



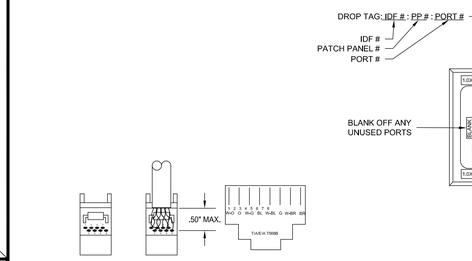
3 FIBER LIU DETAIL W/ FIBER OPTIC CABLE LABELING (ABV./BELOW GROUND)
SCALE: NONE

NOT USED

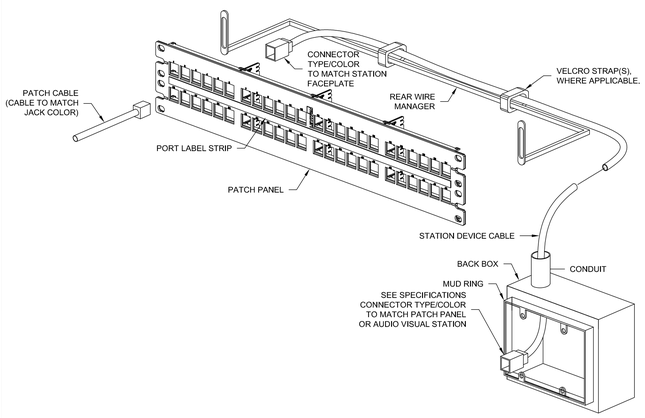
NOT USED



9 TELEPHONE WALL PLATE DETAIL
SCALE: NONE

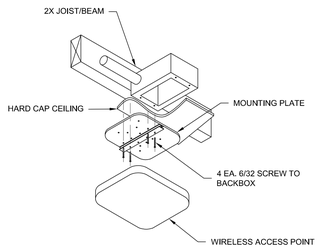


DATA CABLE LABELING DETAIL - AT PATCH PANEL / END POINT

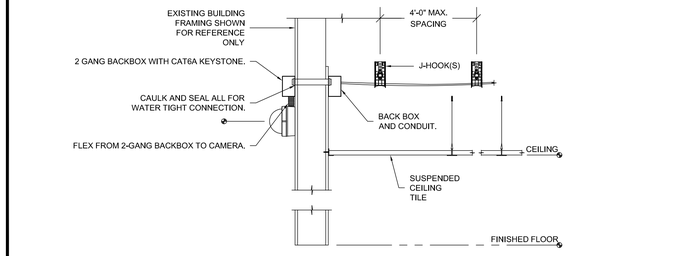


DATA/ VOICE BACKBOX AND FACE PLATE DETAIL

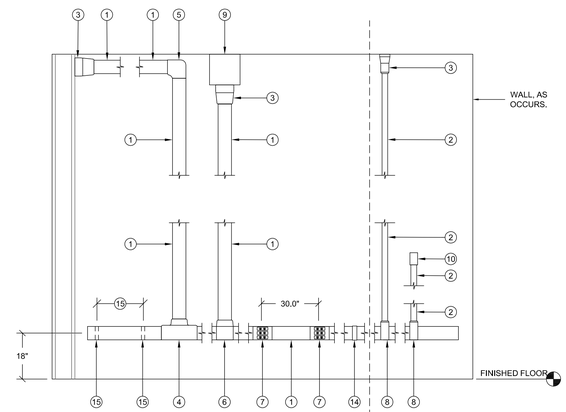
7 PATCH PANEL CONNECTION DETAIL - 2RU
SCALE: NONE



6 WAP MOUNTING AT HARD CAP CEILING DETAIL
SCALE: NONE



2 CCTV EXTERIOR WALL MOUNTING DETAIL
SCALE: NONE



1 TYPICAL SURFACE MOUNTED RACEWAY W/ ASSEMBLY COMPONENTS DETAIL
SCALE: NONE

WIREMOLD SURFACE RACEWAY

SYMBOL	DESCRIPTION	WM5500 PART NUMBER	WM2300 PART NUMBER
1	WIREMOLD WM5500	5500	N/A
2	WIREMOLD WM2300	N/A	2300
3	ENTRANCE END FITTING	5510D	2310A
4	FULL CAPACITY TEE (FIBER READY)	N/A	N/A
5	FULL CAPACITY FLAT ELBOW 90°	5511F0	2311DFO
6	TEE	5515	2315
7	DEVICE BRACKET W/ DUAL RJ FACEPLATE, DUPLEX FACEPLATE OR BLACK FACEPLATE AS NEEDED	5550 / 5507FRJ / 5507D / 5507B	5474 / 5574
8	TRANSITION FITTING FOR WM2300	5574	2348
9	WALL MOUNTED PULL BOX SIZE AS NOTED PER PLAN	N/A	2300
10	DEVICE BOX	N/A	2348
11	END CAP	5510	2310B
12	INTERNAL ELBOW	5517FO	2317DFO
13	EXTERNAL ELBOW	5518FO	2318DFO
14	BASE SEAM COVER	5506	2306
15	WIRE CLIP (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.

AGENCY APPROVAL DSA#

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LICENSED ARCHITECT MARIANA ALVARES DE SARGA C-36107 REN. 01-31-25 STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
1	ADD-001	2024-04-11

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Bay Point, CA 94565

SHEET TITLE
TECHNOLOGY INFRASTRUCTURE DETAILS
INCREMENT: INC.1

DRAWN BY: CC/JG JOB NUMBER: 23118.01

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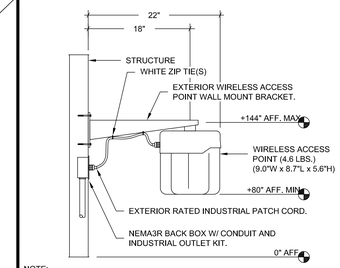

NOTE:
1) ASSEMBLY DOES NOT EXCEED 20 LBS.

4 EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT DETAIL
SCALE: NONE

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NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

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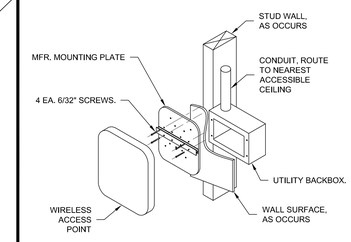

NOTE:
1) MOUNT SINGLE GANG BACK BOX TO SUPPORT MEMBER W/ 2 EA. #12 SHEET METAL SCREWS.
2) ASSEMBLY DOES NOT EXCEED 20 LBS.

3 WALL MOUNTED WIRELESS ACCESS POINT DETAIL
SCALE: NONE

NOT USED

NOT USED

NOT USED

NOT USED

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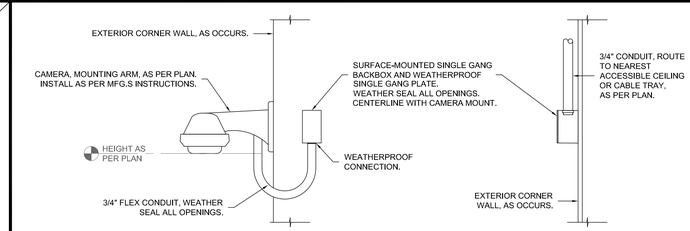

NOTE: TOTAL ASSEMBLY WEIGHT = 18.8 LBS.

2 MULTI-VIEW CCTV EXTERIOR WALL MOUNTING DETAIL
SCALE: NONE

NOT USED

NOT USED

NOT USED

NOT USED

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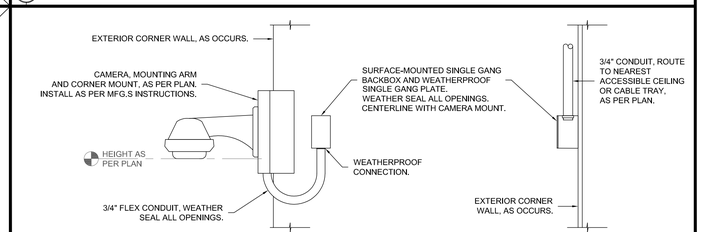

NOTE: TOTAL ASSEMBLY WEIGHT = 18.8 LBS.

1 MULTI-VIEW CCTV EXTERIOR CORNER MOUNTING DETAIL
SCALE: NONE

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