SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

ITEM: 3.20
(ID # 30733)
MEETING DATE:
Tuesday, July 14, 2026

FROM : FACILITIES MANAGEMENT AND RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

SUBJECT: FACILITIES MANAGEMENT (FM) AND RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT (DISTRICT): Flood Control and Water Conservation District Office Tenant Improvement Project – Approval of Construction Contract with PCN3, Inc., District 1. [$8,389,300 – 100% District Special Accounting Fund 15000 (Previously Approved Project Budget)]

RECOMMENDED MOTION: That the Board of Supervisors:

1. Approve Addenda No. 1 through No. 4 to the plans and specifications for the Flood Control and Water Conservation District Office Tenant Improvement Project issued prior to the bid opening date of April 30, 2026;

2. Waive any and all immaterial bid irregularities, accept the responsive low bid, and approve the attached construction contract between the County of Riverside (County) and PCN3, Inc. (PCN3) for the Project in the amount of $8,389,300, and authorize the Chair of the Board to execute the contract on behalf of the County;

Continued on Page 2

ACTION:Policy, CIP

Jason Uhley, GENERAL MGR-CHF FLD CNTRL ENG 6/10/2026

Vincent Yzaguirre 6/11/2026

MINUTES OF THE BOARD OF SUPERVISORS

On motion of Supervisor Gutierrez, seconded by Supervisor Medina and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes:	Medina, Spiegel, and Gutierrez
Nays:	None
Absent:	Washington and Perez
Date:	July 14, 2026
xc:	FM, Flood

Kimberly A. Rector
Clerk of the Board
By: _____ Deputy

RECOMMENDED MOTION: That the Board of Supervisors:

3. Authorize the Director of Facilities Management, or designee, to administer the construction contract with PCN3 in accordance with applicable Board policies; and

4. Direct the Purchasing Agent to issue Purchase Orders in accordance with applicable Board policies to pre-qualified contractors in an amount not to exceed $200,000 per vendor, per project, per year, or pursuant to an approved and executed contract, the total of all project contracts and purchase orders shall not exceed the previously approved total project budget of $13,224,554.

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost
COST	$ 8,000,000	$ 389,300	$ 8,389,300	$ 0
NET COUNTY COST	$ 0	$ 0	$ 0	$ 0
SOURCE OF FUNDS: District Special Accounting Fund 15000 – 100% (Previously approved budget)			**Budget Adjustment:** No **For Fiscal Year:** 2026/27 -2027/28	

C.E.O. RECOMMENDATION: Approve

BACKGROUND:

Summary

On July 1, 2025, the Board of Supervisors (Board) approved Item 3.16 in-principle, the project preliminary design development budget in the amount of $1,086,074, and the Professional Services Agreement with Westgroup Designs, Inc. (Westgroup) in the amount of $799,100 for architectural and engineering design services for the Flood Control and Water Conservation Tenant Improvement Project (Project). The scope of work for the Project includes the interior modifications to two main buildings, approaching 50 years old. The Project, totaling 62,000 square feet of office space, will reduce cubicle and office sizes to accommodate growth and operational functionality. The contract also includes necessary work to bring the facility up to current code for plumbing, electrical, fire, and ADA compliance.

On March 10, 2026 (Item 3.29), the Board approved the total project budget in the amount of $13,224,554, the plans and specifications, and authorized to advertise and bid the Project. On April 30, 2026, the bid opening was held at the Clerk of the Board's Office and five (5) bid packages were received. During the bid review, one (1) bid protest was received against the low bid, which were found to be minor irregularities in the documents submitted and were waived as the irregularities were immaterial and did not constitute a competitive advantage or otherwise contain insufficient grounds to find the low bid non-responsive. The bid documents submitted by PCN3, Inc. were found to be the lowest, responsive bid, are complete, and meet all bid requirements for this Project.

Facilities Management recommends the Board approve Addenda 1 through 4 issued during the bid process; waive the immaterial bid irregularities, and approve the construction contract with

PCN3, Inc. in the amount of $8,389,300, which is within the previously approved budget, to move forward with the construction phase of the Project and to meet scheduled project commitments.

Impact on Residents and Businesses

The Flood Control and Water Conservation Tenant Improvement Project will modify and expand the use of the existing facility to allow the District to efficiently grow in place. The District is constructing and accepting over 10 miles of storm drains and channels into its maintenance system every year. The Project will help the District address growing regulatory, maintenance, and capital construction needs associated with growth in their systems and the County. The Project will not impact residents and businesses nor interfere with daily operations.

Additional Fiscal Information

The Board previously approved a total project budget in the amount of $13,224,554 on March 10, 2026 (Item 3.29), which is 100% funded through the District Special Accounting Fund 15000. Expenditures for FY 26/27 are estimated at $8,000,000; expenditures for FY 27/28 are estimated at $389,300.

Attachments:

- Construction Contract with PCN3, Inc.
- Addenda No. 1 through No. 4

VY:TB:RM:RB FM08947014286 MT#30733
G:\Project Management Office\FORM 11'S\Form 11's_In Process\30733_D2 - 014286 - Flood & Water Conserv Main Ofce TI Proj - Approval of Construct Contract-PCN3_071426.doc

Meghan Hahn
Meghan Hahn, Director of Procurement 7/1/2026

Evangelina Gregorio EG
Evangelina Gregorio EG, Principal Mgmt Analyst 7/2/2026

Aaron Gettis
Aaron Gettis, Chief Deputy County Counsel 6/29/2026

STANDARD FORM OF CONSTRUCTION CONTRACT BETWEEN COUNTY AND CONTRACTOR

by and between

PCN3, INC.

(the "Contractor")

And

THE COUNTY OF RIVERSIDE

(the "County")

FOR:

Flood Control and Water Conservation District Office Tenant Improvement Project

FM08947014286

1995 Market St, Riverside, CA 92501

JUL 14 2026 3.20

STANDARD FORM OF CONSTRUCTION CONTRACT
BETWEEN COUNTY AND CONTRACTOR

THIS STANDARD FORM OF CONSTRUCTION CONTRACT BETWEEN COUNTY AND CONTRACTOR ("Agreement") is entered into as of the date of the last signature on the signature page of this contract by and between **THE COUNTY OF RIVERSIDE**, a political subdivision of the State of California ("County") and PCN3, Inc., a California ("Contractor") whose principal place of business is located at 10591 Humbolt Street, Unit A, Los Alamitos, California.

ARTICLE 1
DEFINITIONS

Capitalized terms used in the Contract Documents shall have the meanings assigned to them in the General Conditions. If not defined in the General Conditions, they shall have the meanings assigned to them elsewhere in the Contract Documents. If not defined in the General Conditions or elsewhere, they shall have the meanings reasonably understood to apply to them by the context in which they are used.

ARTICLE 2
PERFORMANCE OF WORK

2.1 SCOPE OF WORK

Contractor shall execute the entire Work called for by the Contract Documents, except to the extent specifically indicated in the Contract Documents to be the responsibility of others.

2.2 STANDARD OF PERFORMANCE

In addition to and without limiting Contractor's other obligations under the Contract Documents, Contractor shall at all times in its performance of its obligations under the Contract Documents conform to the following general standards of performance:

2.2.1 the requirements of the Contract Documents;

2.2.2 the requirements and conditions of Applicable Laws;

2.2.3 the standard of care applicable to those who provide construction of the type called for by this Construction Contract for projects of a scope and complexity comparable to the Project;

2.2.4 Contractor shall furnish efficient business administration of the Work, utilizing sufficient senior level management and other qualified personnel to manage the Work; and

2.2.5 Contractor shall apply its best and highest skill and attention to completing the Work in an expeditious and economical manner, consistent with the expressed best interests of the County and within the limitations of the Contract Price and Contract Time.

ARTICLE 3
CONTRACT TIME

3.1 CONTRACT TIME

3.1.1 Substantial Completion. Subject to Contract Adjustments permitted by the Contract Documents, Contractor shall achieve Substantial Completion of the entire Work for Building 1A not later than **One Hundred Fifty (150)** Days after the Date of Commencement for Building 1A, and Contractor shall achieve Substantial Completion of the entire

Work for Building 1 not later than **One Hundred Fifty (150)** Days after the **Ninety Days (90)** Days Transition Period following Final Completion of Building 1A.

3.1.2 Final Completion. Subject to Contract Adjustments permitted by the Contract Documents, Contractor shall achieve Final Completion of the Work for Building 1A not later than **Thirty (30)** Days after the actual occurrence of Substantial Completion for Building 1A, and Contractor shall achieve Final Completion of the Work for Building 1 not later than **Thirty (30)** Days after the actual occurrence of Substantial Completion for Building 1.

3.1.3 Contract Adjustments. The Contract Time shall be extended or shortened only in accordance with the provisions of the Contract Documents governing Contract Adjustments to the Contract Time.

3.2 LIQUIDATED DAMAGES TO COUNTY

3.2.1 County's Right. County and Contractor acknowledge that if Contractor fails to Substantially Complete the Work within the Contract Time for Substantial Completion, County will suffer substantial Losses, which would be both extremely difficult and impracticable to ascertain. On that basis they agree, as a reasonable estimate of those Losses and not a penalty, to the assessment and recovery by County of liquidated damages under this Section 3.2.

3.2.2 Per Diem Rate. If Contractor fails to actually achieve Substantial Completion of the entire Work within the Contract Time for Substantial Completion, Contractor shall pay to County as liquidated damages the amount of One Thousand Five Hundred Dollars ($1,500) per Day for each Day occurring after the expiration of the Contract Time for Substantial Completion until Contractor achieves Substantial Completion of the entire Work.

3.2.3 Adjustment for Extensions of Time. Subject to the provisions of Paragraph 8.2.8 of the General Conditions dealing with concurrency of Delays, liquidated damages shall not be charged to Contractor for a period of time for which the Contractor is entitled under the Contract Documents to a Contract Adjustment to the Contract Time for Substantial Completion.

3.2.4 Partial Completion. The liquidated damages provided for under this Section 3.2 shall not be reduced or apportioned: (1) for Substantial Completion of portions of the Work prior to Substantial Completion of the entirety of the Work; or (2) if portions of the Work are deleted pursuant to (a) the County's right to order Deleted Work; or (b) a termination by County of a portion of the Construction Contract or a deletion of portion of Work for the convenience of the County or due to an Event of Contractor Default.

3.2.5 Remedies. County may deduct any liquidated damages payable under this Section 3.2 from money due or to become due to Contractor under the Contract Documents, or pursue any other legal remedy to collect such liquidated damages from Contractor and/or its Surety.

3.2.6 Not a Limitation. County's rights under this Section 3.2 shall not be interpreted as precluding or limiting: (1) any right or remedy of County arising from an Event of Contractor Default other than a failure to achieve Substantial Completion of the Work within the Contract Time for Substantial Completion; or (2) County's right to order an acceleration, at Contractor's Own Expense, of performance of the Work to overcome Delay, including, without limitation, a Delay for which County has the right to assess liquidated damages under this Section 3.2.

3.3. LIQUIDATED DAMAGES TO CONTRACTOR

3.3.1 Contractor's Right. County and Contractor acknowledge and agree that if Contractor is unable due to Compensable Delay to actually achieve Substantial Completion of the Work within the Contract Time for Substantial Completion, Contractor and its affected Subcontractors will suffer Losses that would be both extremely difficult and impracticable to ascertain. On that basis they agree, as a reasonable estimate of those Losses and not a penalty, to the payment by County to Contractor of liquidated damages under this Section 3.3.

3.3.2 Daily Rate. Subject to the provisions of Paragraph 8.2.8 of the General Conditions dealing with concurrency of Delays, the Contract Price shall be increased by Change Order or Unilateral Change Order in the amount

of One Thousand Five Hundred Dollars ($1,500) per Day as liquidated damages for each Day for which Contractor is entitled under the Contract Documents to a Contract Adjustment extending the Contract Time for Substantial Completion due to Compensable Delay, with no additional amount added thereto or calculated thereon for Allowable Markup or any other markup for overhead or profit to Contractor or any Subcontractor, of any Tier.

3.3.3 Payment by County. A Change Order or Unilateral Change Order setting forth a Contract Adjustment to the Contract Price for liquidated damages permitted by this Section 3.3 shall be executed following, and not before, actual Substantial Completion and prior to or contemporaneously with Final Completion. Notwithstanding any other provision of the Contract Documents to the contrary and without limitation to the County's rights of withholding payment to Contractor as permitted elsewhere in the Contract Documents or under Applicable Laws, any amounts due to the Contractor under this Section 3.3 shall be payable as part of, and not prior to the due date for payment of, Final Payment to Contractor.

3.3.4 Deleted Work. A Contract Adjustment shall be made pursuant to Subparagraph 8.2.6.2 of the General Conditions reducing the Contract Price and Contract Time in the event that the Contract Time is shortened due to (1) Deleted Work; or (2) a termination by County of a portion of the Construction Contract for convenience or due to an Event of Contractor Default.

3.3.5 Termination. County shall have no liability to Contractor to pay any liquidated damages under this Section 3.3, nor shall County have any other liability to Contractor or any Subcontractor for any Loss due to Delay (including, without limitation, Compensable Delay) in the event the Construction Contract is wholly terminated (whether such termination is a termination for cause by County or Contractor or a termination for convenience by County) at any time prior to expiration of the Contract Time for Substantial Completion set forth in Paragraph 3.1.1, above.

3.3.6 Exclusive Remedy. Liquidated damages payable by County under this Section 3.3 constitute the Contractor's sole and exclusive right and remedy for recovery from County of Losses to Contractor and its Subcontractors, of every Tier, that are attributable to Compensable Delay, regardless of the cause, duration or timing of the Compensable Delay and no other Contract Adjustment, or other form of compensation or reimbursement, of any kind, shall be made to Contractor or any Subcontractor, of any Tier, for any Loss resulting, directly or indirectly, from, or attributable to, any of the following: (1) Unexcused Delay or acceleration to overcome Unexcused Delay; (2) Excusable Delay or any acceleration not authorized by County in writing to overcome Excusable Delay; or (3) concurrency of a Compensable Delay with any different type or class of Unexcused Delay or Excusable Delay, whether such concurrency is a concurrency in cause or in effect.

3.3.7 WAIVER BY CONTRACTOR.

CONTRACTOR WAIVES THE RIGHT TO FURTHER RECOURSE OR RECOVERY OF COSTS OR DAMAGES BY REASON OF OR RELATED TO ANY DELAY (INCLUDING, WITHOUT LIMITATION, COMPENSABLE DELAY) THAT IS IN EXCESS OF OR NOT RECOVERED BY CONTRACTOR AS PART OF THE LIQUIDATED DAMAGES PAYBLE TO CONTRACTOR UNDER THIS SECTION 3.3.

ARTICLE 4
CONTRACTOR COMPENSATION

4.1 CONTRACT PRICE

4.1.1 Contract Price. County shall pay the Contractor in current funds for the Contractor's performance of the Work in accordance with the Contract Documents the Contract Price, exclusive of Contract Adjustments, of Eight Million Three Hundred Eighty Nine Thousand Three Hundred Dollars ($ 8,389,300).

4.1.2 Basis. The Contract Price set forth in Paragraph 4.1.1, above, is based on the Bid submitted by Contractor as adjusted for Alternates accepted by County as set forth in Section 4.2, below.

4.1.3 Adjustments. The Contract Price is only subject to adjustment as permitted by the General Conditions for Contract Adjustments due to Compensable Changes, Deleted Work or Compensable Delay.

4.1.4 All-Inclusive Price. The Contract Price as adjusted for Contract Adjustment permitted by the Contract Documents is the total amount payable by County to Contractor for performance of the Work under the Contract Documents and is deemed to cover all Losses, foreseeable or unforeseeable, arising out of or related to past, present or future circumstances within or outside the control of the Contractor or its Subcontractors affecting the time or cost of performing the Work, including, without limitation, the effects of natural elements upon the Work, unforeseen difficulties or obstructions affecting the performance of the Work (including, without limitation, unforeseen conditions at the Site that do not constitute Differing Site Conditions) and unforeseen fluctuations in market conditions and price escalations (whether occurring locally, nationally or internationally).

4.2 ALTERNATES

The Contract Price includes the following Alternates, which are described in the Contract Documents and are hereby accepted by County:

Number	Description	Dollar Amount
Alternate No. 1	Add Course of Construction Insurance	$ 85,000
Alternate No. 2	Allowance for Replacement of Movable Partitions	$ 50,000
Alternate No. 3	Additional Insulquilt Sound Insulation	$ 69,300

4.3 UNIT PRICES

Unit prices agreed to by County and Contractor are as follows:

Description	Measurement Unit	Dollar Amount
N/A		

ARTICLE 5
ENUMERATION OF CONTRACT DOCUMENTS

5.1 LIST OF CONTRACT DOCUMENTS

The Contract Documents include, without limitation, the following:

5.1.1 Construction Contract. The Contract Documents include this executed Standard Form of Construction Contract Between County and Contractor.

5.1.2 General Conditions. The Contract Documents include the ☒ General Conditions of the Standard Form of Construction Contract Between County and Contractor (Long Form) or ☐ General Conditions of the Standard Form of Construction Contract Between County and Contractor (Short Form).

5.1.3 Specifications. The Contract Documents include the following Specifications:

Title	Date	Divisions
Specifications (782 pages) as approved by the Board of Supervisors on March 10, 2026.		

5.1.4 Drawings. The Contract Documents include the following Drawings dated text, 20xx, unless a different date is shown below:

Sheet Number	Title	Date	Pages
Drawings (96 sheets/drawings), dated 2026-03-03, included in Specifications approved by the Board of Supervisors on March 10, 2026, and incorporated herein.			

5.1.5 Addenda. The Contract Documents include the following Addenda:

Addendum Number	Title	Date	Pages
1	Addendum No. 1	April 3, 2026	234
2	Addendum No. 2	April 17, 2026	134
3	Addendum No. 3	April 21, 2026	9
4	Addendum No. 4	April 27, 2026	37

5.1.6 Reference Documents. The Contract Documents include the following Reference Documents:

Title	Author	Date	Pages
"OFFICE BUILDING FOR RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT" (As-Built Drawings for Building 1A)	CLINTON MARR & ASSOCIATES - ARCHITECTS	5/1/90	45
"OFFICE BUILDING FOR RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT" (As-Built Drawings for Building 1)	CLINTON MARR & ASSOCIATES - ARCHITECTS	12/9/91	48
"RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT HVAC AND BOILER UNITS AND ENERGY MANAGEMENT SYSTEM (EMS) REPLACEMENT"	H. VERDUSCO	8/5/13	15

5.1.7 List Other Contract Documents, if any

ARTICLE 6
SPECIAL REQUIREMENTS

6.1 LABOR CODE SECTION 1861 CERTIFICATION

By signing below, Contractor certifies that he/she/it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of the California Labor Code, and that he/she/it will comply with such provisions before commencing the performance of the Work.

CONTRACTORS ARE REQUIRED BY LAW TO BE LICENSED AND REGULATED BY THE CONTRACTORS' STATE LICENSE BOARD WHICH HAS JURISDICTION TO INVESTIGATE COMPLAINTS AGAINST CONTRACTORS IF A COMPLAINT REGARDING A PATENT ACT OR OMISSION IS FILED WITHIN FOUR YEARS OF THE DATE OF THE ALLEGED VIOLATION. A COMPLAINT REGARDING A LATENT ACT OR OMISSION PERTAINING TO STRUCTURAL DEFECTS MUST BE FILED WITHIN 10 YEARS OF THE DATE OF THE ALLEGED VIOLATION. ANY QUESTIONS CONCERNING A CONTRACTOR MAY BE REFERRED TO THE REGISTRAR, CONTRACTORS' STATE LICENSE BOARD, P.O. BOX 26000, SACRAMENTO, CALIFORNIA, 95826.

IN WITNESS WHEREOF, the parties hereto have made and executed four (4) originals of this Construction Contract, on _____ [to be filled in by Clerk of the Board].

"COUNTY"

COUNTY OF RIVERSIDE

By: Karen S. Spiegel
Chairman, Board of Supervisors
KAREN SPIEGEL

ATTEST:

KIMBERLY RECTOR
Clerk of the Board

By: _____
(Deputy)

(SEAL)

APPROVED AS TO FORM:
MINH C. TRAN
County Counsel

By: _____

Deputy County Counsel

"CONTRACTOR"

PCN3, Inc.

_____
(Sign on line above)

By: Brian Abghari
(Type name)

Title: President

The following information must be provided concerning the Contractor:

State whether Contractor is corporation, Individual, partnership, joint venture or other:

Corporation

If "other", enter legal form of business:

N/A

Enter address:

10591 Humbolt Street, Suite A,
Los Alamitos, CA 90720

Telephone: (562) 493-4123 ext. 402
Facsimile: (562) 493-4129
Email: estimating@pcn3.com
Employer State Tax ID #: 954738509
State Contractor License #: 786518

Department of Industrial Relations
Registration No: 1000007827

If Contractor is not an individual or corporation, list Names of 4 representatives who have authority to contractually bind Contractor:

If Contractor is a corporation, state:

Name of President: Brian Abghari
Name of Secretary: Brian Abghari
State of Incorporation: California

JUL 14 2026 3.20

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of Orange }

On 6/9/2026 before me, Sana Rowhani, Notary Public,
(insert name and title of the officer)

personally appeared Brian Abghari,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

ENC1 SANA ROWHANI COMM. # 2533018 NOTARY PUBLIC • CALIFORNIA LOS ANGELES COUNTY My Comm. Expires September 20, 2029 ENC1

Notary Public Signature (Seal)

OPTIONAL INFORMATION

DOCUMENT

Construction Contract
(name or type of document)

(number of pages)

(document date)

SIGNER CAPACITY

President
(capacity claimed by the signer)

NOTICE

THE NOTARY PUBLIC DOES NOT CERTIFY THE AUTHORIZED CAPACITY OF THE SIGNER

ADDENDUM # 01

April 03, 2026

FOR:

Flood Control and Water Conservation District
Tenant Improvement Project

Project No.:
FM08947014286

LOCATED AT:
1995 Market Street,
Riverside, California, 92501

PREPARED BY:
COUNTY OF RIVERSIDE
FACILITIES MANAGEMENT
PROJECT MANAGEMENT OFFICE
3450 14th Street, Suite 200
RIVERSIDE, CA 92501

Addendum # 01 Content and Attachment List

DESCRIPTION

- County Stamped Approval Project plans/drawings, dated 03/19/2026 (96 sheets)
- Reference Document Attachment – Converse Consultants' "**ASBESTOS & LEAD-BASED PAINT SURVEY REPORT** Riverside County Flood Control – Building 1" report, dated March 18, 2026 (64 pages)
- Reference Document Attachment – Converse Consultants' "**ASBESTOS & LEAD-BASED PAINT SURVEY REPORT** Riverside County Flood Control – Building 1A" report, dated March 19, 2026 (68 pages)
- Request for Clarifications/Pre-Bid RFIs and Responses Attachment (01 pages)
- SK-01 - Construction Site Restrictions Diagram (01 page)
- Supplemental Project Requirements Narrative (02 page)

WESTGROUP DESIGNS
architecture | planning | interior design | branding

ADDENDUM # 01 – April 03, 2026
Flood Control and Water Conservation District
Tenant Improvement Project

Supplemental Project Requirements Narrative

- Estimated Construction Cost has been updated per the Mandatory Pre-Bid Job Walk Meeting Agenda to reflect a cost of:
  - $ 10,500,000.00 (unofficial estimated construction for reference only)

- NOTE: The hazmat consultant noted the following regarding their sampling of materials for Building 1: Limited destructive sampling methods were employed during this survey, therefore certain suspect materials were not sampled. Reference the provided Report documents per building. These materials will need to be considered ACMs until they are sampled and analyzed for asbestos content by the Contractor.

- The following Contract Time are an update to the overall project duration requirements originally identified in the County Frontend Bid Package documentation:
  - Building 1A
    - Substantial Completion Duration – 150 Days
      - Within the 1st Week of Substantial Completion, the Punch Walk is to be scheduled and completed by project team.
      - Starting the 2nd Week of Substantial Completion, the FFE installation will begin and run concurrently to Contractor work.
    - Final Completion Duration – 30 Days
  - Transition Period – 90 Days
  - Building 1
    - Substantial Completion Duration – 150 Days
      - Within the 1st Week of Substantial Completion, the Punch Walk is to be scheduled and completed by project team.
      - Starting the 2nd Week of Substantial Completion, the FFE installation will begin and run concurrently to Contractor work.
    - Final Completion – 30 Days

- Temporary Utilities:
  - Contractor may connect temporary power and water required for construction to the existing building metered services. Contractor shall provide all equipment, materials, connections, distribution, protection, and controls required to support temporary utility use.

  - Contractor shall coordinate tie in locations with Owner and maintain continuous service to occupied areas at all times. Interruptions to existing services are not permitted without prior approval and scheduled shutdown.
  - At completion of work, contractor shall remove all temporary connections and equipment and restore all affected systems and finishes to original condition.

- Sole-Source Sub-Contractor Services:
  - Rapid Fire shall serve as the sole-source design-build subcontractor for all fire alarm and life safety systems associated with this project. Rapid Fire shall also serve as the sole-source provider for all security system modifications and integration with the existing system.
  - Contractor shall include Rapid Fire in the base bid and shall coordinate all design, County Fire deferred approval permitting, equipment procurement, installation, and integration required for complete and operational systems.
  - All work shall be fully compatible with the existing campus systems and shall be coordinated with the Owner's standards and requirements.

- Pre-Construction Photo Documentation:
  - Prior to mobilization or commencement of any work, Contractor shall document all existing site and building conditions within and adjacent to the construction limits using high-resolution photographs and video. Documentation shall clearly capture existing conditions of structures, finishes, equipment, site improvements, and any areas that may be impacted by construction activities.
  - Contractor shall submit this documentation to the County and Architect as a formal construction submittal for review and record prior to start of work.
  - Contractor is responsible for documenting conditions sufficiently to establish baseline conditions and to address any potential claims for damage.

- END -

WESTGROUP DESIGNS
architecture | planning | interior design | branding

ADDENDUM # 01 – April 03, 2026
Flood Control and Water Conservation District
Tenant Improvement Project

Bid RFI Responses

- **RFI 001** - Are there any prequalification documents that the general contractor must submit before with the bid?
  - **RESPONSE:** No supplemental documentation required.

- **RFI 002** - Must subcontractors be prequalified?
  - **RESPONSE:** No.

- END -

ADDENDUM # 02

April 17, 2026

FOR:

Flood Control and Water Conservation District
Tenant Improvement Project

Project No.:
FM08947014286

LOCATED AT:
1995 Market Street,
Riverside, California, 92501

PREPARED BY:
COUNTY OF RIVERSIDE
FACILITIES MANAGEMENT
PROJECT MANAGEMENT OFFICE
3450 14th Street, Suite 200
RIVERSIDE, CA 92501

Addendum # 02 Content and Attachment List

DESCRIPTION

- Bid Addendum #02 Revised Sheets Clouded as Delta 2 (44 sheets)
- Bid Addendum #02 Delta 2 - Sheet Narrative (04 pages)
- Request for Clarifications/Pre-Bid RFIs and Responses Attachment (04 pages)
- Supplemental Project Requirements Narrative (01 page)
- Supplemental RFI Response Sketches (5 pages):
  - SK-01 – (WC1 & WC5) RECEPTION RM 102B WALLCOVERING (01 page)
  - SK-02 – (WC2) HISTORY WALL WALLCOVERING (01 page)
  - SK-03 – (WC3) ORGANIC GRAPHIC WALLCOVERING (01 page)
  - SK-04 – (WC4) MURAL WALLCOVERING (01 page)
  - SK-05 – HARDWARE TYPE 06 (01 page)
- Updated Project Specification Sections:
  - 081116 - Aluminum Doors and Frames (04 Pages)
  - 088723 – Safety and Security Window Films (03 Pages)
  - 274116 – Audiovisual Systems (23 Pages)
  - 280000 – Common Work Results for Security (16 Pages)
  - 281000 – Access Control and Alarm Management System (14 Pages)
  - 281600 – Intrusion Detection System (06 Pages)
  - 282000 – Video Surveillance System (05 Pages)
- Sign-In Sheet from Project Job Walk (03 Pages)

ABBREVIATIONS

&	And	F.R.P.	Fiberglass Reinforced Panel	PT.	Paint
∠	Angle	F.V.	Field Verify	PR.	Pair
@	At	FIN.	Finish	PTN./PART.	Partition
℄	Centerline	F.F.E.	Finish Floor Elevation	PEN.	Penetration
°	Degree	F.G.	Finish Grade	PERF.	Perforated
PERP.⊥	Perpendicular	F.A.	Fire Alarm	P.LAM.	Plastic Laminate
℄	Property Line	F.E.	Fire Extinguisher	PL.	Plate
		F.E.C.	Fire Extinguisher Cabinet	P.V.	Plumbing Vent
A.F.F.	Above Finish Floor	FLASH.	Flashing	PLYWD.	Plywood
ACOUS.	Acoustical	F.H.M.B.	Flat Head Machine Bolt	LBS./#	Pound
ACT	Acoustical Ceiling Tile	F.H.M.S.	Flat Head Machine Screw	PRE-FAB.	Prefabricated
ADJ.	Adjustable	F.H.W.S.	Flat Head Wood Screw	P.M.F.	Pressed Metal Frame
AGGR.	Aggregate	FL./FLR.	Floor	P.T.,P.T.D.F.	Pressure Treated Douglas Fir
A.B.	Aggregate Base	F.D.	Floor Drain		
ALUM./AL.	Aluminum	FT.	Foot/Feet	R.	Radius/Riser
ARCH.	Architectural	FTG.	Footing	R.W.L.	Rain Water Leader
A.D.	Area Drain	FND.	Foundation	RDWD.	Redwood
A.C.	Asphalt Concrete	FURR.	Furring	REF.	Reference
A.V.	Audio Visual			REFRIG.	Refrigerator
AUTO.	Automatic	GALV.	Galvanized	REINF.	Reinforced
		G.I.	Galvanized Iron	REQ'D.	Required
BM.	Beam	G.S.M.	Galvanized Sheet Metal	RET.	Return
BLK.	Block	G.W.H.	Gas Water Heater	R.D.	Roof Drain
BLKG.	Blocking	GA.	Gauge	RM.	Room
BD.	Board	GLU.LAM./G.L.B.	Glue Laminated (Beam)	R.O.	Rough Opening
BOT.	Bottom	G.B.	Grab Bar	R.H.W.S.	Round Head Wood Screw
BLDG.	Building	GR.	Grade	R.B.	Rubber Base
		GND.	Ground		
CAB.	Cabinet	GYP.	Gypsum	SECT.	Section
CATV	Cable T.V.	GYP.BD.	Gypsum Wallboard	S.SK.	Service Sink
C.I.	Cast Iron			SHTG.	Sheathing
C.B.	Catch Basin	HW.	Hardware	SHT.	Sheet
CLKG.	Caulking	HDWD.	Hardwood	S.M.	Sheet Metal
CLG.	Ceiling	HDR.	Header	S.M.S.	Sheet Metal Screw
CEM.	Cement	HVAC	Heating/Ventilating Air Conditioning	S.V.	Sheet Vinyl
CNTR./CTR.	Center			SHR./SHWR.	Shower
CER.	Ceramic	H./HT.	Height	SIM.	Similar
C.L.	Chain Link	H.M.	Hollow Metal	S.C.	Solid Core
CB.	Chalkboard	HOR./HORIZ.	Horizontal	S.	South
C.R.	Classroom	H.B.	Hose Bib	SPEC.	Specification
CLR.	Clear	HR.	Hour (Fire Rating)	SQ.	Square
C.W.	Cold Water			SST./S.S.	Stainless Steel
COL.	Column	IN.	Inch	STD./STND.	Standard
CONC.	Concrete	INFO.	Information	STL.	Steel
C.M.U.	Concrete Masonry Unit	I.D.	Inside Diameter	STOR.	Storage
CONN.	Connection	INSUL.	Insulation	S.D.	Storm Drain
CONST.	Construction	INT.	Interior	ST.	Street
C.J.	Construction Joint/ Control Joint	INV.	Invert	STRUCT.	Structural
CONT.	Continuous	JAN.	Janitor	SUSP.	Suspended
CONTR.	Contractor	JT.	Joint	SYM.	Symbol
CORR.	Corridor	JST.	Joist		
C.M.P.	Corrugated Metal Pipe			TB.	Tackboard
C.Y.	Cubic Yard	KP.	Kickplate	TEL./TELE.	Telephone
CUST.	Custodian	KIT.	Kitchen	T.V.	Television
				T.CLR.	Tempered Clear
D.	Deep/Depth	LAM.	Laminate	T.L.T.	Tempered Low Transmission
DET./DTL.	Detail	LAV.	Lavatory	THK.	Thick
DIAG.	Diagonal	LT.WT.	Light Weight	THRES.	Threshold
DIA./Ø	Diameter	L.F.	Lineal Feet	THRU.	Through
DIM.	Dimension			T./TLT.	Toilet
DIM.PT.	Dimension Point	M.B.	Machine Bolt	T&G	Tongue & Groove
D.A.	Disabled Accessible	MH.	Manhole	T.O.	Top of
DW.	Dishwasher	MFR.	Manufacturer	T.O.C.	Top of Curb
DR.	Door	M.O.	Masonry Opening	T.O.P.	Top of Pavement
DBL.	Double	MATL.	Material	T.O.W.	Top of Wall/Top of Walk
DN.	Down	MAX.	Maximum	T.S.	Tube Steel
DS.	Downspout	MECH.	Mechanical	TYP.	Typical
D.I.	Drain Inlet	MEMB.	Membrane		
DWG.	Drawing	MTL.	Metal	U.N.O.	Unless Noted Otherwise
D.F.	Drinking Fountain	MEZZ.	Mezzanine	U.O.N.	Unless Otherwise Noted
EA.	Each	MIN.	Minimum	VERT.	Vertical
E.	East	MISC.	Miscellaneous	V.G.D.F.	Vertical Grain Douglas Fir
ELEC.	Electrical	MTD.	Mounted	V.C.T.	Vinyl Composition Tile
E.W.C.	Electric Water Cooler	M.P.	Multipurpose	V.W.C.	Vinyl Wall Covering
E.W.H.	Electric Water Heater			VIF	Verify In Field
EL./ELEV.	Elevation	(N)	New		
EMER.	Emergency	NOM.	Nominal	WSCT.	Wainscot
ENCL.	Enclosure	N.	North	W.C.	Water Closet
EQ.	Equal	N.I.C.	Not in Contract	W.H.	Water Heater
EQUIP.	Equipment	N.T.S.	Not to Scale	WT.	Weight
E.F.	Exhaust Fan	NO./ #	Number	W.W.M.	Welded Wire Mesh
(E)/EXST.	Existing			W.	West/Width
EXP.	Expansion	O.C.	On Center	WDW.	Window
E.J.	Expansion Joint	OPP.	Opposite	W.G.	Wire Glass
EXT.	Exterior	O.H.	Opposite Hand	W/	With
		O.D.	Outside Diameter	W/O	Without
F.O.C.	Face of Concrete/Curb	O.H.W.S.	Oval Head Wood Screw	WD.	Wood
F.O.F.	Face of Finish	O/	Over		
F.O.S.	Face of Studs	OA.	Overall	YD.	Yard
FB.	Fiberboard			Y.D.	Yard Drain

SUPPLEMENTAL SUBMITTALS

DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO ***THE BUILDING OFFICIAL*** WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING.
ANY FORMATTING, CORRECTIONS, AND PREPARATION OF THE DOCUMENTS REQUIRED BY THE REVIEWING AGENCY SHALL BE COMPLETED PRIOR TO SUBMISSION OR RESUBMISSION TO THE ARCHITECT FOR REVIEW.

THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY ***THE BUILDING OFFICIAL AND FIRE MARSHAL.***

DEFERRED SUBMITTAL:

- MODIFICATIONS TO EXISTING FIRE SPRINKLER SYSTEM
- MODIFICATIONS TO EXISTING FIRE ALARM SYSTEM

- HAZARDOUS MATERIALS INVENTORY STATEMENT - PROVIDE TO THE FIRE DEPARTMENT PRIOR TO FINAL INSPECTION UNDER A SEPARATE PERMIT. WHERE PREVIOUSLY SUBMITTED, REVIEWED AND APPROVED BY THE FIRE DEPARTMENT PROVIDE THE REFERENCE COPY UNDER THIS PERMIT.

GENERAL NOTES

1. SEE INDIVIDUAL SHEETS FOR LEGEND DESCRIPTIONS AND SHEET NOTES.
2. "ARCHITECT" AS USED IN THESE DOCUMENTS REFERS TO: WESTGROUP DESIGNS. (949) 250-0880.
3. REFERENCE TO MAKES, BRANDS, AND MODEL IS TO ESTABLISH TYPE AND QUALITY DESIRED. WHERE "OR EQUAL" IS STATED, THE ARCHITECT SHALL DETERMINE ACCEPTABILITY.
4. "TYPICAL" OR "TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS THROUGHOUT, U.N.O.
5. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS & ORIENTATION ON PLANS & ELEVATIONS.
6. INSTALL ALL FINISH MATERIALS AND MANUFACTURED SYSTEMS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AS REQUIRED FOR THE JOB SPECIFIC APPLICATION.
7. VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DISCREPANCY APPEAR IN THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED.
8. SHOULD A CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, THE ARCHITECT SHALL BE ASKED FOR CLARIFICATION. IF A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS IS BROUGHT TO THE ATTENTION OF THE ARCHITECT AFTER AWARD OF BID, NO ADDITIONAL COST TO THE PROJECT SHALL BE INCURRED FOR CLARIFYING TO PROCEED PER THE DRAWINGS OR SPECIFICATIONS.
9. DIMENSIONS:
   a. DO NOT SCALE DRAWINGS.
   b. ALL DIMENSIONS ARE TO THE FACE OF STUD, OR FACE OF CONCRETE, UNLESS NOTED OTHERWISE.
   c. CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FACE OF FINISH OF CEILING MATERIAL, UNLESS NOTED OTHERWISE.
   d. LARGE SCALE DRAWINGS SHALL GOVERN OVER SMALLER SCALE DRAWINGS.
   e. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
   f. "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.
10. WHERE NOTED "V.I.F. " OR "VERIFY", THE DIMENSIONS ARE TO BE CHECKED IN THE FIELD, NOTIFY THE ARCHITECT IF THE FIELD DIMENSIONS ARE NOT SUITABLE FOR THE INTENDED PURPOSE.
11. VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT PADS AND BASES AS WELL AS POWER AND WATER OR DRAIN INSTALLATIONS WITH EQUIPMENT MANUFACTURERS BEFORE PROCEEDING WITH THE WORK. CHANGES TO ACCOMMODATE FIELD CONDITIONS OR SUBSTITUTIONS SHALL BE MADE WITHOUT ADDITIONAL CHARGES TO OWNER.
12. PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, AND SEALANT AS REQUIRED FOR PROPER INSTALLATION OF THE WORK.
13. WHERE LARGER STUDS OR FURRING ARE REQUIRED TO COVER PIPING AND CONDUITS, THE LARGER STUD SIZE OR FURRING SHALL EXTEND THE FULL SURFACE OF THE WALL WIDTH AND LENGTH WHERE THE FURRING OCCURS. NOTIFY THE ARCHITECT OF ANY POTENTIAL CLEARANCE CONFLICTS.
14. PROVIDE ALL ACCESS PANELS AS REQUIRED BY GOVERNING CODE WHETHER SHOWN OR NOT, TO ALL CONCEALED SPACES, VOIDS, ATTICS, ETC. VERIFY TYPE AND LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
15. ALL BUILDING OR SITE CONSTRUCTION RUBISH AND DEBRIS SHALL BE REMOVED AND FLOORS SWEPT CLEAN ON A DAILY BASES; RUBISH AND DEBRIS SHALL NOT BE ALLOWED TO ACCUMULATE IN THE BUILDING OR ON SITE.

PROJECT DIRECTORY

OWNER:

RIVERSIDE COUNTY

Contact:
RIZALDY BALUYOT
RBaluyot@rivco.org

ARCHITECT:

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19520 JAMBOREE ROAD, STE #100
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(949) 250-0880

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JonF@westgroupdesigns.com

MECHANICAL, PLUMBING, ELECTRICAL ENGINEERS

DESIGN WEST ENGINEERING
MEP ENGINEER
412 E. VANDERBILT WAY
SAN BERNARDINO, CA 92408
DARRELL JOHNSON
djohnson@designwesteng.com
909-890-3700

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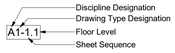
TR-4	TELECOM ROOM TR-1B BUILD-OUT
NUMBER OF SHEETS: 100	

SYMBOL LEGEND

SHEET NUMBERING SYSTEM



ROOM NAME and NUMBERING REFERENCE

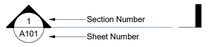
KEYNOTE REFERENCE

SHEET NOTE REFERENCE

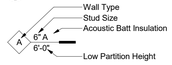
DEMOLITION NOTE REFERENCE

DETAIL REFERENCE

BUILDING AND WALL SECTION REFERENCE



STRUCTURAL GRID IDENTIFIER
(center of framing)

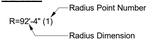


CENTERLINE

WORK POINT CONTROL

REVISION

RADIUS



EXTERIOR ELEVATION REFERENCE

INTERIOR ELEVATION REFERENCE

PARTIAL LIST OF APPLICABLE CODES

ALL WORK SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS 2022 EDITION PARTS 1 THROUGH 12:

- PART 1 - CALIFORNIA BUILDING STANDARDS ADMINSTRATIVE CODE
- PART 2 - CALIFORNIA BUILDING CODE
- PART 3 - CALIFORNIA ELECTRICAL CODE
- PART 4 - CALIFORNIA MECHANICAL CODE
- PART 5 - CALIFORNIA PLUMBING CODE
- PART 6 - CALIFORNIA ENERGY CODE
- PART 8 - CALIFORNIA HISTORICAL BUILDING CODE
- PART 9 - CALIFORNIA FIRE CODE
- PART 10 - CALIFORNIA EXISTING BUILDING CODE
- PART 11 - CALIFORNIA GREEN BUILDING STANDARDS
- PART 12 - CALIFORNIA REFERENCE STANDARDS CODE

BUILDING DATA ANALYSIS

OCCUPANCY CLASSIFICATION AND USE:	B
BUILDING CONSTRUCTION TYPE:	III-N
HEIGHT INCREASE:	NO
ALLOWABLE BUILDING HEIGHT:	UL
ACTUAL BUILDING HEIGHT:	17' - 6"
ALLOWABLE NUMBER OF STORIES:	UL
ACTUAL NUMBER OF STORIES:	1
AREA INCREASE:	NO
ALLOWABLE AREA FACTOR:	UL
ACTUAL AREA FACTOR:	120,000
BUILDING AREA IN SQUARE FEET (TOTAL BUILDING, BOTH BUILDINGS):	62,000
BUILDING 1:	26,678
BUILDING 1A:	34,076
AREA OF PROJECT IN SQUARE FEET (TOTAL AREA):	60,754
SEPARATE OR NON-SEPARATED USE:	NON-SEPARATED
FIRE SPRINKLERS, (YES/NO) TYPE: (WET, DRY, PRE-ACTION OR DELUGE):	YES, WET
FIRE ALARM (YES/NO), TYPE (MANUAL, AUTOMATIC, EVAC, ETC):	YES, AUTOMATIC
OTHER FIRE PROTECTION (YES/NO):	NO
SMOKE CONTROL SYSTEM (YES OR NO):	NO
BUILDING IN HIGH SEVERITY FIRE ZONE OR WUI (YES/NO):	NO
EMERGENCY RESPONDER RADIO COVERAGE:	YES
HAZARDOUS MATERIALS INVENTORY REQUIRED (HIMS)(YES/NO):	YES, AMMONIA TANK STORAGE ROOM, NIC.
YEAR BUILDING WAS CONSTRUCTED:	1990 & 1991
RISK CATEGORY PER 2022 CBC CH.16:	IIII
SEISMIC JOINTS (YES/NO) IF YES, PROVIDE LOCATION:	NO

OCCUPANT LOAD FOR EACH BUILDING:	1,798
BUILDING 1:	114
BUILDING 1A:	498

SCOPE OF WORK

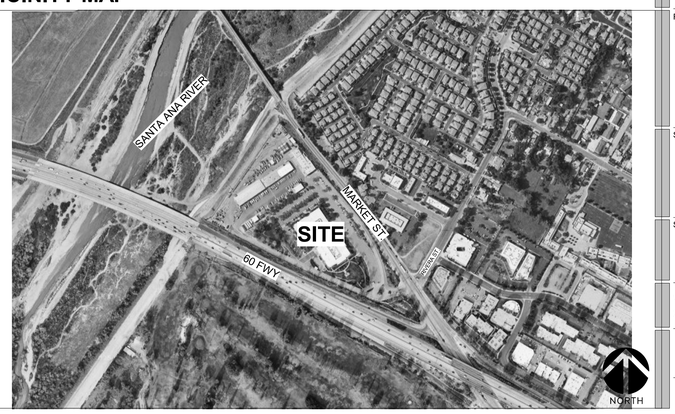
SITE LOCATION

1995 MARKET STREET
RIVERSIDE, CA 92501

PROJECT DESCRIPTION:

TENANT IMPROVEMENT OF BOTH BUILDING 1 & 1A INCLUDING NEW INTERIOR WALLS, DOORS, CABINETRY, LIGHTING, EQUIPMENT AND FINISHES. NO CHANGE TO EXTERIORS.

VICINITY MAP



WESTGROUP DESIGNS
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19900 MacArthur Boulevard | Suite 1000
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949.250.0880 | FAX 949.250.0882
www.westgroupdesigns.com

OFFICE RENOVATION

RIVERSIDE COUNTY FLOOD CONTROL DISTRICT
1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/2026
2	BID ADDENDUM #02	04/17/2026

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — JON FREEBERG — C32284 — Exp.08/31/27 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

GENERAL NOTES AND SHEET INDEX

SHEET NUMBER:

G-1.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
25811	IG/AD/TT	JF	12/22/25

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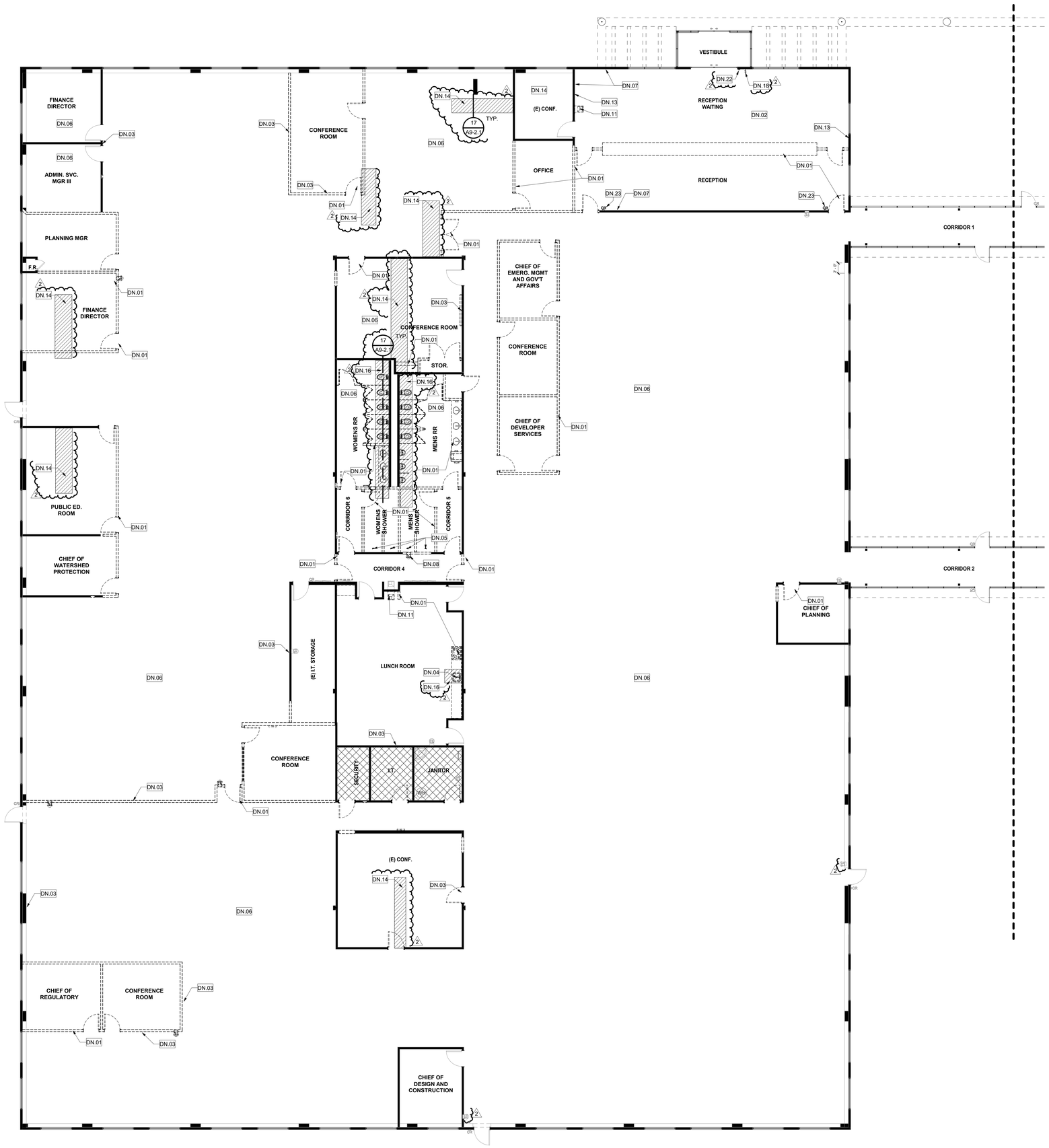

DEMOLITION PLAN - BUILDING 1A | 1A | 1/8" = 1'-0"

LEGEND

- WALL TO BE REMOVED
- WALL TO REMAIN
- 1 HR FIRE RATED WALL
- DOOR TO BE REMOVED OR **STORAGE BY OWNER ETC- PICK ONE)**
- DOOR TO REMAIN
- COLUMN
- AREA N.I.C.
- FIRE EXTINGUISHER SEMI-RECESSED, SEE 12 / A9-2.1

GENERAL NOTES

1. DEMOLITION, REMOVAL AND PATCHING, SCOPE OF WORK TO INCLUDE:
   a. PROTECTION OF EXISTING WORK TO REMAIN.
   b. TEMPORARY PARTITIONS AND BARRICADES.
   c. REMOVAL OF ITEMS SHOWN.
   d. SAW CUT AND CORE EXISTING CONCRETE.
   e. REMOVAL, STORAGE, PROTECTION AND INSTALLATION OF ITEMS TO BE REUSED.
   f. REMOVAL OF EXISTING ITEMS AS NECESSARY TO PROVIDE FOR NEW CONSTRUCTION.
   g. RELOCATION OF INDICATED ITEMS.
   h. DEBRIS REMOVAL.
   i. PATCHING AS NECESSARY TO MATCH EXISTING.
2. INCLUDE THE REWORKING OF ABUTTING SURFACE AS REQUIRED TO MAKE NEW WORK JOIN AND MATCH EXISTING SURFACES TO REMAIN.
3. DUST BARRIERS: ERECT TEMPORARY DUST BARRIERS OF PLYWOOD OR OTHER ACCEPTABLE MATERIAL WHICH WILL POSITIVELY PREVENT PASSAGE OF DEBRIS AND DUST. SEAL ENTIRE PERIMETER AND ALL JOINTS.
4. ITEMS TO BE REUSED: EXERCISE THE GREATEST POSSIBLE CARE WHEN REMOVING ITEMS SCHEDULED FOR REUSE. USE ONLY MECHANICS SKILLED IN THE APPROPRIATE CRAFTS. IDENTIFY POINT OF REUSE, STORE AND PROTECT AT LOCATIONS DIRECTED.
5. REMOVE ALL WALLS SHOWN DASHED AND ITEMS LOCATED ON WALLS, INCLUDING BUT NOT LIMITED TO ELEC/TELE/DATA OUTLETS, SWITCHES, TIMERS, ETC.
6. HOLES THROUGH EXISTING CONCRETE CONSTRUCTION TO ACCOMMODATE NEW CONDUIT OR PIPING SHALL BE NEATLY CORED, NOT JACK HAMMERED, TO SATISFY LOCATION AND SIZE REQUIREMENTS OF RESPECTIVE TRADES. COORDINATE WORK WITH VARIOUS CRAFTS TO ASSURE THE PROPER SEQUENCE, LIMITS, METHODS, AND TIME OF PERFORMANCE.
7. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS FOR THE PROTECTION OF THE EXISTING FACILITY, CONTENTS, AND ANY NEW WORK OF THIS CONTRACT AGAINST RUST, WEATHER, DAMAGE AND NOISE.
8. ITEMS OF EXISTING: WORK INDICATED TO REMAIN UPON COMPLETION OF THE CONTRACT, BUT WHICH REQUIRE REMOVAL, TO COMPLETE THE WORK, SHALL BE CAREFULLY REMOVED AND REPLACED UPON COMPLETION. THE REPLACED WORK SHALL MATCH ITS CONDITION AT THE START OF THE WORK.
9. LEAVE ALL SPACES BROOM CLEAN WITH ALL LEDGES AND CORNERS PROPERLY CLEANED.
10. ALL CORRIDORS, STAIRWAYS, AND LOBBIES ARE TO REMAIN OPERATIONAL AND FREE OF DEBRIS. ALL WORK IN THESE AREAS TO BE PERFORMED AFTER REGULAR BUSINESS HOURS.
11. ALL FLOOR MONUMENTS TO BE REMOVED AND CAPPED WHERE OCCUR.
12. PROTECT THE BUILDING OWNER'S PROPERTY, INCLUDING NOT IN CONTRACT AREAS ACCESSIBLE TO CONTRACTOR.
13. IN AREAS WHERE DEMOLITION (REMOVAL OF TILE, CARPETING, PARTITIONS) CAUSES UNEVENNESS IN SLAB, THE CONTRACTOR SHALL PATCH SLAB TO LEVEL PRIOR TO INSTALLATION OF NEW FINISH FLOOR.
14. EXISTING EXTERIOR WINDOW COVERING TO BE REMOVED U.N.O.

DEMOLITION KEYNOTES, DN.##

SN#	DESCRIPTION
DN.01	REMOVE ALL DASHED DOORS, WALLS, AND MILLWORK. CONTRACTOR TO WALK SITE AND VERIFY QUANTITIES AND EXISTING CONDITIONS PRIOR TO BID/DEMOLITION WORK.
DN.02	REMOVE FLOORING. SUBLFOOR SURFACE TO BE CLEANED AND PREPARED TO RECEIVE NEW MATERIALS.
DN.03	CAREFULLY REMOVE CLOCK AND RETURN TO OWNER.
DN.04	CAREFULLY REMOVE OSMOSIS EQUIPMENT FOR REUSE.
DN.05	REMOVE FLOORING DRAIN. CAP BELOW GRADE AND PATCH AND PREPARED TO RECEIVE NEW MATERIALS.
DN.06	REMOVE ALL FINISHES, BASE, EQUIPMENT, ASSOCIATED PLUMBING, ELECTRICAL ACCESSORIES, COVERPLATES, SWITCHES, AND T-STATS THROUGHOUT.
DN.07	REMOVE APPLIED WALL SYSTEM TYPICAL. WALL TO BE CLEANED AND PREPARED TO RECEIVE NEW WALL FINISH. SEE IMPROVEMENT PLANS FOR FINISH.
DN.08	REMOVE FIRE EXTINGUISHER AND RETURN TO OWNER.
DN.09	REMOVE CROWN MOLDING AND WALLCOVERING THROUGHOUT. WALLS TO BE CLEANED AND PREPARED TO RECEIVE NEW WALL FINISH. SEE IMPROVEMENT PLAN FOR NEW FINISH
DN.10	REMOVE WALL PANELING THROUGHOUT. WALLS TO BE CLEANED AND PREPARED TO RECEIVE NEW WALL FINISH. SEE IMPROVEMENT PLAN FOR NEW FINISH
DN.11	REMOVE DRINKING FOUNTAIN. CAP AND PREPARE WALL FOR NEW FINISH.
DN.12	CAREFULLY REMOVE SINK, MIRROR, AND VANITY TO BE REUSED.
DN.13	CAREFULLY REMOVE DIPLOMAS AND PHOTOS AND RETURN TO OWNER.
DN.14	TRENCH CONCRETE FOR FLOOR OUTLET/DATA AS NEEDED. SEE DETAIL 17/A9-2.1.
DN.15	PROVIDE ADD ALTERNATE ALLOWANCE FOR REMOVING AND REPLACING THE MOVEABLE PANELS. STRUCTURE, TRACK, AND TROLLY TO REMAIN IN PLACE.
DN.16	REMOVE PORTION OF (E) CONCRETE FOR NEW PLUMBING. PATCH AND REPAIR CONCRETE AND PREP FOR NEW FLOOR FINISH. SEE DETAIL 17/A9-2.1.
DN.17	CAREFULLY REMOVE MOTORIZED DOOR PUSH BUTTON FOR REUSE AND RELOCATION.
DN.18	REMOVE ALL ELECTRICAL WALL SWITCHES.
DN.19	REMOVE WALL MOUNTED TELEPHONES AND RETURN TO OWNERS
DN.20	REMOVE BUILT-IN MILLWORK THROUGHOUT. WALLS TO BE CLEANED AND PREPARED TO RECEIVE NEW WALL FINISH. SEE IMPROVEMENT PLAN FOR NEW FINISH
DN.21	REMOVE THERMOSTATS AND ELECTRICAL DEVICES ON WALL.
DN.22	CAREFULLY REMOVE FIRE ALARM FOR REUSE AND RELOCATION.
DN.23	DEMOLISH CARD READER

PROTECTION KEYNOTES, PN.##

SN#	DESCRIPTION
PN.01	OMIT ~~PENDING DECISION, KEEP EXISTING CONNECTION FOR BLUE LIGHT AND CARD READER. PROTECT IN PLACE.~~
PN.02	OMIT.

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PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/2026
2	BID ADDENDUM #02	04/17/2026

REGISTRATION/SIGNATURE:

JOSHUA JAMES FORSYTH — LICENSED ARCHITECT — C32284 — Exp 08/31/27 — Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

DEMOLITION PLAN (BLDG 1A)

SHEET NUMBER: A1-1.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
25811	IG/AD/TT	JF	12/22/25

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1/8" = 1'

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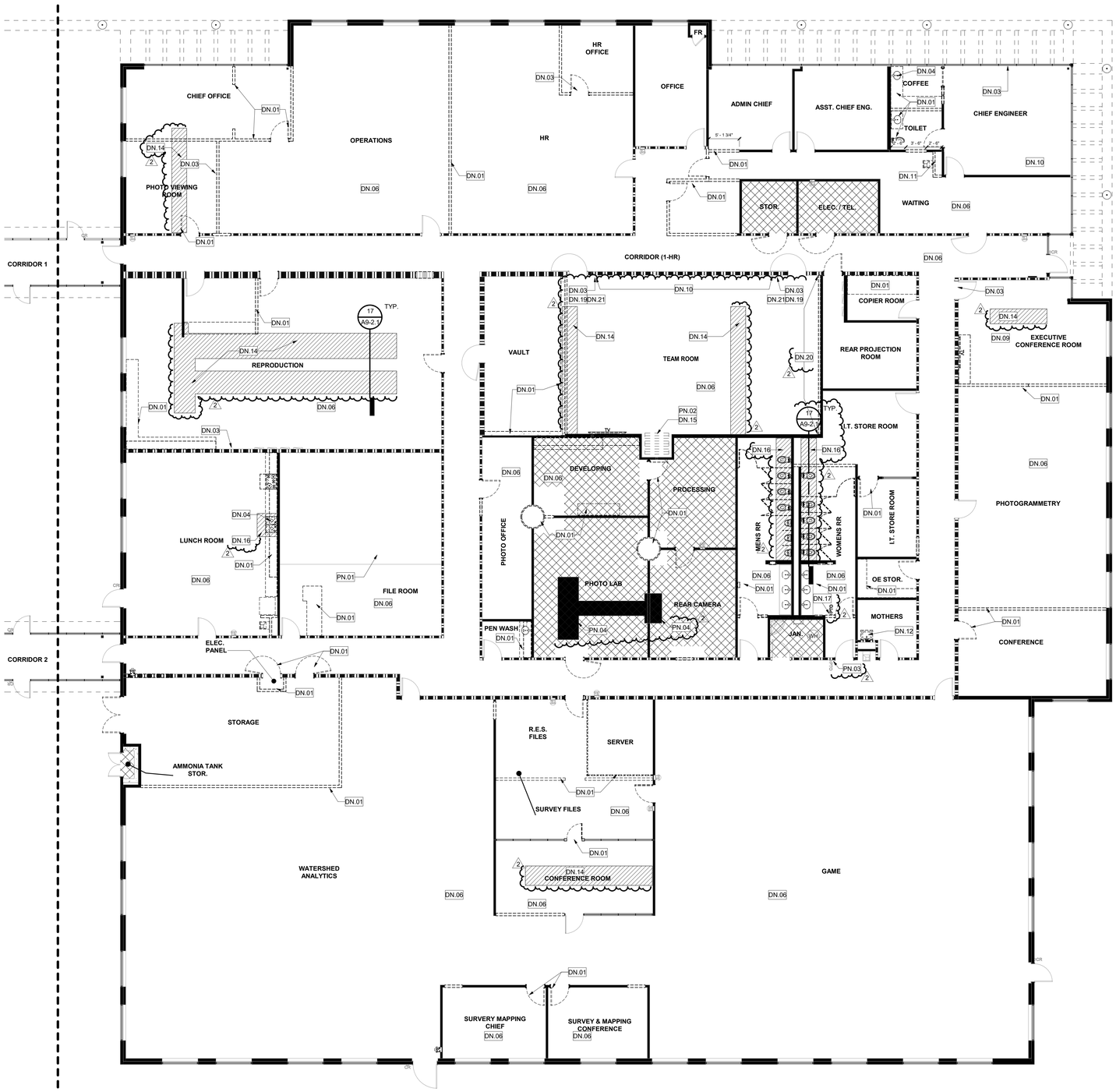

DEMOLITION PLAN - BUILDING 1A

1
1/8" = 1'-0"

LEGEND

- WALL TO BE REMOVED
- WALL TO REMAIN
- 1 HR FIRE RATED WALL
- DOOR TO BE REMOVED OR **STORAGE BY OWNER ETC- PICK ONE)**
- DOOR TO REMAIN
- COLUMN
- AREA N.I.C.
- FIRE EXTINGUISHER SEMI-RECESSED, SEE 12 / A9-2.1

GENERAL NOTES

1. DEMOLITION, REMOVAL AND PATCHING, SCOPE OF WORK TO INCLUDE:
   a. PROTECTION OF EXISTING WORK TO REMAIN.
   b. TEMPORARY PARTITIONS AND BARRICADES.
   c. REMOVAL OF ITEMS SHOWN.
   d. SAW CUT AND CORE EXISTING CONCRETE.
   e. REMOVAL, STORAGE, PROTECTION AND INSTALLATION OF ITEMS TO BE REUSED.
   f. REMOVAL OF EXISTING ITEMS AS NECESSARY TO PROVIDE FOR NEW CONSTRUCTION.
   g. RELOCATION OF INDICATED ITEMS.
   h. DEBRIS REMOVAL.
   i. PATCHING AS NECESSARY TO MATCH EXISTING.
2. INCLUDE THE REWORKING OF ABUTTING SURFACE AS REQUIRED TO MAKE NEW WORK JOIN AND MATCH EXISTING SURFACES TO REMAIN.
3. DUST BARRIERS: ERECT TEMPORARY DUST BARRIERS OF PLYWOOD OR OTHER ACCEPTABLE MATERIAL WHICH WILL POSITIVELY PREVENT PASSAGE OF DEBRIS AND DUST. SEAL ENTIRE PERIMETER AND ALL JOINTS.
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EXISTING EXTERIOR WINDOW COVERING TO BE REMOVED U.N.O.

DEMOLITION KEYNOTES / DN.##

SN#	DESCRIPTION
DN.01	REMOVE ALL DASHED DOORS, WALLS, AND MILLWORK. CONTRACTOR TO WALK SITE AND VERIFY QUANTITIES AND EXISTING CONDITIONS PRIOR TO BID/DEMOLITION WORK.
DN.02	REMOVE FLOORING. SUBLFOOR SURFACE TO BE CLEANED AND PREPARED TO RECEIVE NEW MATERIALS.
DN.03	CAREFULLY REMOVE CLOCK AND RETURN TO OWNER.
DN.04	CAREFULLY REMOVE OSMOSIS EQUIPMENT FOR REUSE.
DN.05	REMOVE FLOORING DRAIN. CAP BELOW GRADE AND PATCH AND PREPARED TO RECEIVE NEW MATERIALS.
DN.06	REMOVE ALL FINISHES, BASE, EQUIPMENT, ASSOCIATED PLUMBING, ELECTRICAL ACCESSORIES, COVERPLATES, SWITCHES, AND T-STATS THROUGHOUT.
DN.07	REMOVE APPLIED WALL SYSTEM TYPICAL. WALL TO BE CLEANED AND PREPARED TO RECEIVE NEW WALL FINISH. SEE IMPROVEMENT PLANS FOR FINISH.
DN.08	REMOVE FIRE EXTINGUISHER AND RETURN TO OWNER.
DN.09	REMOVE CROWN MOLDING AND WALLCOVERING THROUGHOUT. WALLS TO BE CLEANED AND PREPARED TO RECEIVE NEW WALL FINISH. SEE IMPROVEMENT PLAN FOR NEW FINISH
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DN.14	TRENCH CONCRETE FOR FLOOR OUTLET/DATA AS NEEDED. SEE DETAIL 17/A9-2.1.
2 DN.15	PROVIDE ADD ALTERNATE ALLOWANCE FOR REMOVING AND REPLACING THE MOVEABLE PANELS. STRUCTURE, TRACK, AND TROLLY TO REMAIN IN PLACE.
DN.16	REMOVE PORTION OF (E) CONCRETE FOR NEW PLUMBING. PATCH AND REPAIR CONCRETE AND PREP FOR NEW FLOOR FINISH. SEE DETAIL 17/A9-2.1.
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DN.21	REMOVE THERMOSTATS AND ELECTRICAL DEVICES ON WALL.
DN.22	CAREFULLY REMOVE FIRE ALARM FOR REUSE AND RELOCATION.

PROTECTION KEYNOTES / PN.##

SN#	DESCRIPTION
PN.01	PROTECT IN-PLACE HIGH DENSITY FILING FLOOR SYSTEM AND FINISH.
2 PN.02	PROTECT IN-PLACE TRACK AND TROLLY.
2 PN.03	PROTECT IN-PLACE MOTORIZED DOOR PUSH BUTTON OPERATION.
PN.04	PROTECT IN-PLACE EXISTING EQUIPMENT.

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PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

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REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — JOSHUA JAMES WESTGROUP — C32284 — 09/30/2027 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

DEMOLITION PLAN (BLDG 1)

SHEET NUMBER:

A1-1.2

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1/8" = 1'

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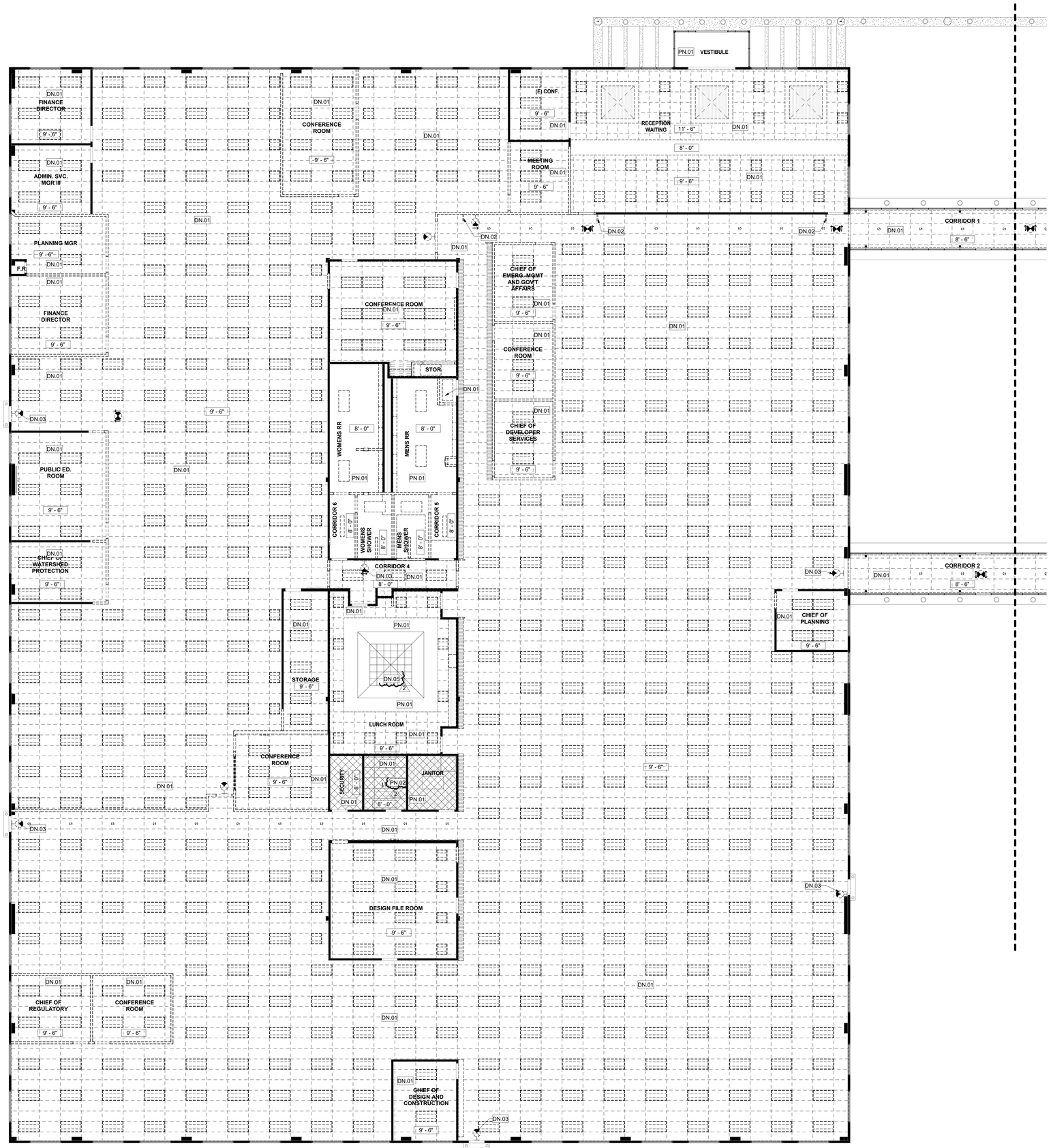

LEGEND

- 2' x 2' GRID CEILING TO BE REMOVED.
- 2' x 4' GRID CEILING TO BE REMOVED.
- GYPSUM BOARD CEILING TO BE REMOVED.
- STRUCTURE DECK ABOVE, LEFT EXPOSED
- 2'X4' LIGHT TO BE REMOVED
- OR SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- EXHAUST AIR REGISTER
- EXIT SIGN, SEE ELECTRICAL
  - CEILING MOUNTED
  - DIRECTIONAL ARROWS
  - WALL MOUNTED
- X'-X" INDICATES HEIGHT OF CEILING ABOVE FINISH FLOOR
- AREA N.I.C.

GENERAL NOTES

1. ALL LIGHTING TO BE REMOVED THROUGHOUT.
2. ALL MECHANICAL DUCTING TO BE REMOVED THROUGHOUT. 2

DEMOLITION KEYNOTES DN.##

SN#	DESCRIPTION
DN.01	DEMOLISH ALL (E) ACOUSTIC CEILING GRID AND TILES, GYP. BD. CEILINGS, AND ANY ATTACHED DEVICES INCLUDING, BUT NOT LIMITED TO: LIGHT FIXTURES, SPEAKERS, HVAC DIFFUSERS, EMERGENCY EXIT SIGNS, ETC. THROUGHOUT U.N.O.
DN.02	DEMOLISH ALL ROOM FLAGS SIGNAGE.
DN.03	DEMOLISH ALL (E) WALL MOUNTED EMERGENCY EXIT SIGNS THROUGHOUT U.N.O.
DN.04	CAREFULLY REMOVE SOUND MASKING DEVICE FOR REUSE. REFER TO A3-1.2 FOR RELOCATION.
DN.05	DEMOLISH ALL COVE LIGHTING. 2

PROTECTION KEYNOTES PN.##

SN#	DESCRIPTION
PN.01	PROTECT IN-PLACE GYP. BD. CEILING.
PN.02	CONDUIT AND FIBER TO REMAIN, PROTECT IN-PLACE. 2

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LICENSED ARCHITECT — JOSHUA JAMES SMITH — C32284 — 09/30/2027 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:
DEMOLITION REFLECTED CEILING PLAN (BLDG 1A)

SHEET NUMBER:
A1-3.1 2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
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1/8" = 1'

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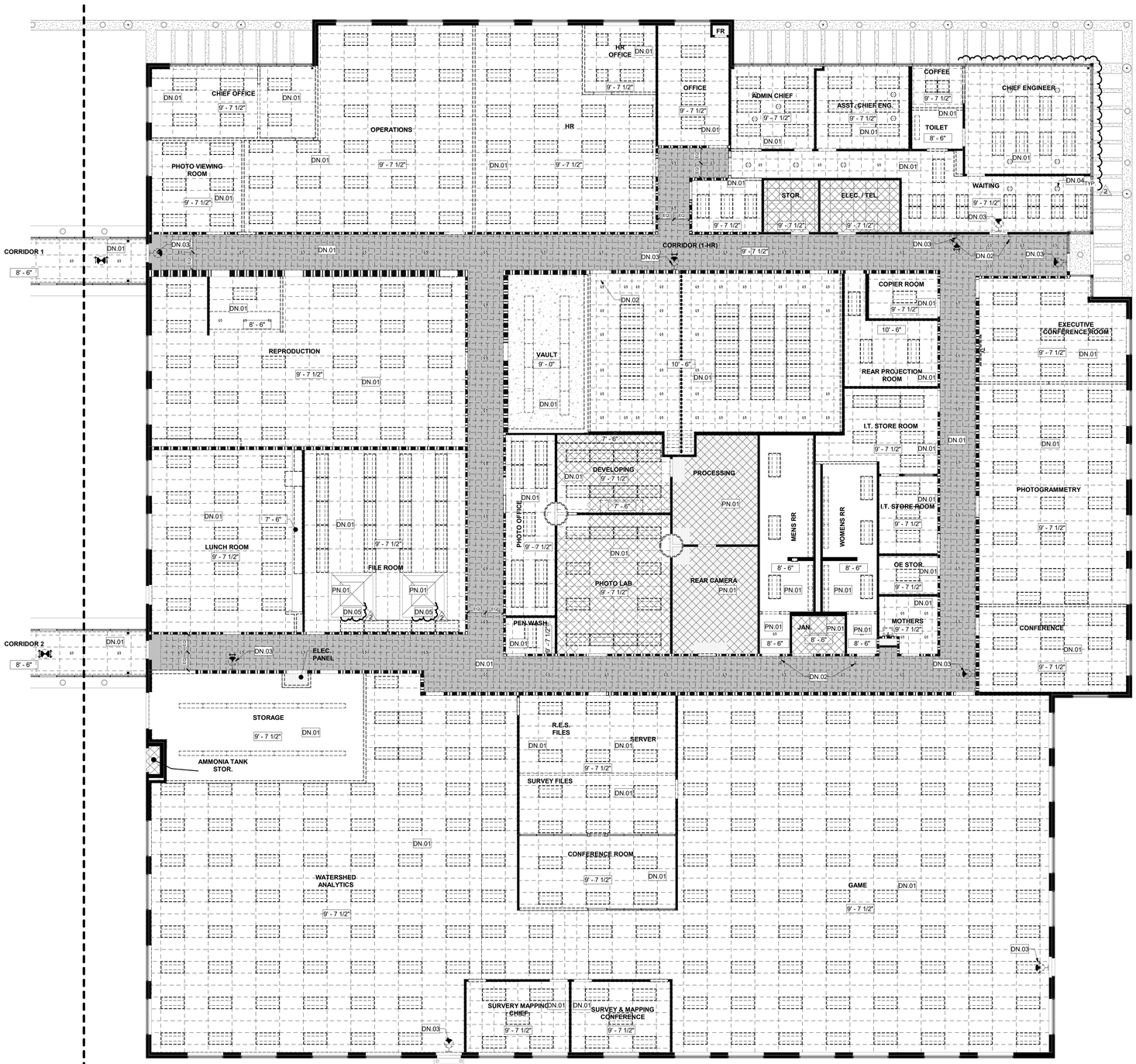

DEMOLITION REFLECTED CEILING PLAN - BUILDING 1A | 1 | 1/8" = 1'-0"

LEGEND

- 2' x 2' GRID CEILING TO BE REMOVED.
- 2' x 4' GRID CEILING TO BE REMOVED.
- GYPSUM BOARD CEILING TO BE REMOVED.
- STRUCTURE DECK ABOVE, LEFT EXPOSED
- 2'X4' LIGHT TO BE REMOVED
- OR SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- EXHAUST AIR REGISTER
- EXIT SIGN, SEE ELECTRICAL
  - CEILING MOUNTED
  - DIRECTIONAL ARROWS
  - WALL MOUNTED
- X'-X" INDICATES HEIGHT OF CEILING ABOVE FINISH FLOOR
- AREA N.I.C.

GENERAL NOTES

1. ALL LIGHTING TO BE REMOVED THROUGHOUT.
2. ALL MECHANICAL DUCTING TO BE REMOVED THROUGHOUT.

DEMOLITION KEYNOTES, DN.##

SN#	DESCRIPTION
DN.01	DEMOLISH ALL (E) ACOUSTIC CEILING GRID AND TILES, GYP. BD. CEILINGS, AND ANY ATTACHED DEVICES INCLUDING, BUT NOT LIMITED TO: LIGHT FIXTURES, SPEAKERS, HVAC DIFFUSERS, EMERGENCY EXIT SIGNS, ETC. THROUGHOUT U.N.O.
DN.02	DEMOLISH ALL ROOM FLAGS SIGNAGE.
DN.03	DEMOLISH ALL (E) WALL MOUNTED EMERGENCY EXIT SIGNS THROUGHOUT U.N.O.
DN.04	CAREFULLY REMOVE SOUND MASKING DEVICE FOR REUSE. REFER TO A3-1.2 FOR RELOCATION.
DN.05	DEMOLISH ALL COVE LIGHTING.

PROTECTION KEYNOTES, PN.##

SN#	DESCRIPTION
PN.01	PROTECT IN-PLACE GYP. BD. CEILING.
PN.02	CONDUIT AND FIBER TO REMAIN, PROTECT IN-PLACE.

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REVISIONS:

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REGISTRATION/SIGNATURE:

JOSHUA JAMES SMITH — LICENSED ARCHITECT — C32284 — Exp. 08/31/27 — Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:
DEMOLITION REFLECTED CEILING PLAN (BLDG 1)

SHEET NUMBER:
A1-3.2 2

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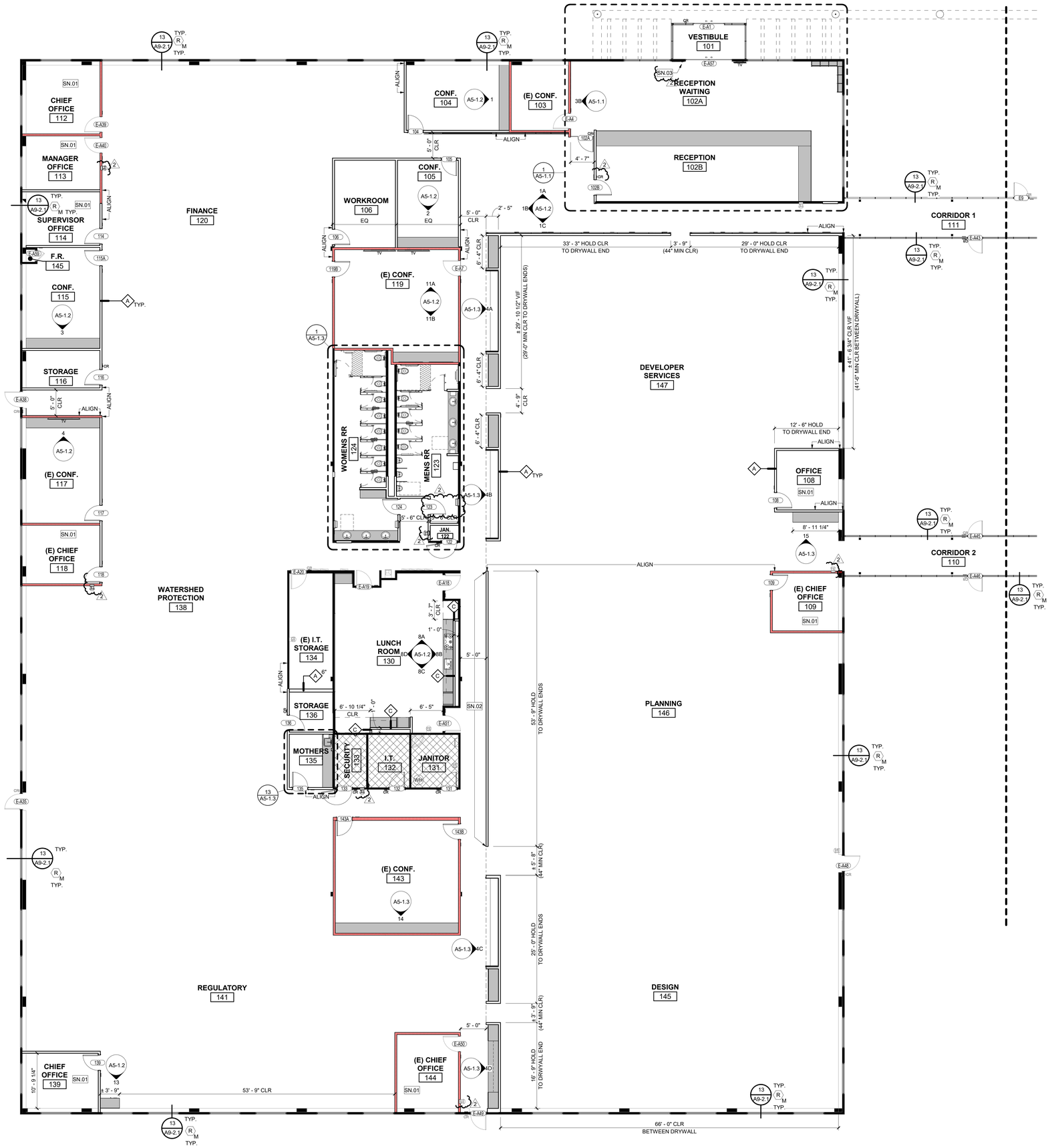

LEGEND

- (E) WALL TO REMAIN
- METAL STUD WALL: (20 GA) METAL STUDS @ 16" O.C., UNLESS OTHERWISE NOTED.
- (E) WALL TO EXTEND TO DECK, DETAIL 7 / A9-2.1
- 1 HR FIRE RATED WALL
- 2 HR FIRE RATED WALL
- MILLWORK, SEE MILLWORK DETAILS
- FIRE EXTINGUISHER SEMI-RECESSED, SEE 12 / A9-2.1
- FIRE EXTINGUISHER SURFACE MOUNTED

WALL REFERENCE

A — 6" — 6'-0" — WALL TYPE / STUD SIZE (WHERE OCCURS) / LOW PARTITION HEIGHT (WHERE OCCURS)

(TYPICAL WALL TYPE **A** UNLESS OTHERWISE NOTED) SEE 1 / A9-1.1

DOOR REFERENCE

0000A — DOOR TAG SEE 03 / A6-2.1

WINDOW COVERING REFERENCE

R / X — Window Covering Mounting Reference; M=Mullion Mounted; S=Surface Mounted to (E) Window Shade Pocket

WINDOW COVERING (R) = ROLLER SHADE, MECHOSHADE MECHO 5 SYSTEM OR EQUAL MANUALLY OPERATED, CHAIN DRIVE
PROVIDE TIE DOWN FOR CHAIN "CHAIN RETAINER" WITH CHAIN TAUT SUNSCREEN SINGLE ROLLER SHADE THROUGHOUT

SUNSCREEN FABRIC: MECHOSHADE THERMOVEIL, COLOR: TBD

- AREA N.I.C.
- SINK: AT PLAM SURFACE: PROVIDE TOP MOUNT SINK; AT SOLID SURFACE: PROVIDE UNDER-MOUNT SINK

GENERAL NOTES

1. ALL WALLS FINISHED TO BE DRYWALL LEVEL 4 U.N.O.
2. GENERAL CONTRACTOR TO LAYOUT ALL CHALK LINES PRIOR TO PARTITION CONSTRUCTION. SHOULD ANY DISCREPANCIES OCCUR, GENERAL CONTRACTOR IS TO REVIEW WITH THE ARCHITECT IN THE FIELD TO RESOLVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. USE MOISTURE RESISTANT GYPSUM BOARD ON ALL RESTROOMS AND WET WALLS.
4. PROVIDE MINIMUM GYPSUM BOARD FURRING AROUND ALL EXPOSED COLUMNS TO 6" ABOVE SUSPENDED CEILING.
5. PREPARE EXISTING AND NEW SURFACES FOR INSTALLATION OF SPECIFIED FINISHES. ALL SURFACES SHALL BE FREE FROM ADHESIVE, BUMPS, CRACKS, AND MEET THE REQUIREMENTS OF THE FINISH MANUFACTURERS INSTALLATION INSTRUCTIONS.
6. PROVIDE METAL TRIM OR CASING AT ALL EDGES OF CEMENT PLASTER AND GYPSUM BOARD SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, U.N.O.
7. PROVIDE METAL CORNER BEAD AT ALL OUTSIDE CORNERS OF CEMENT PLASTER OR GYPSUM BOARD SURFACES UNLESS NOTED OTHERWISE.
8. PRIOR TO INSTALLATION, FIRE AUTHORITY HAVING JURISDICTION SHALL BE CALLED TO FIELD VERIFY LOCATIONS AND TYPES OF FIRE EXTINGUISHERS AND KNOX BOXES.
9. PROVIDE BACKING FOR ALL WALL MOUNTED EQUIPMENT AND MILLWORK PER DETAIL #11/A9-2.1 2 COORDINATE WITH ARCHITECT FOR ANY UNFORSEEN CONDITIONS.

SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
SN.01	PROVIDE ADD ALTERNATE ALLOWANCE FOR INSULQUILT LAID ABOVE CEILING FOR 2 FT LENGTH OF EACH SIDE OF NEW EXTENDED FULL HEIGHT PARITIONS AT ALL OFFICES AND CONFERENCE ROOMS.
SN.02	WALL TO BE DESIGNED WITH FRAMED ARTWORK. FINAL LOCATIONS TO BE CONFIRMED WITH ARCHITECT AND OWNER PRIOR TO INSTALLING BACKING.
SN.03	RELOCATED FIRE ALARM.

BUILDING 1A - IMPROVEMENT PLAN — 1A — 1/8" = 1'-0"

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REGISTRATION/SIGNATURE:

JEFFREY JAMES FAIRBAIRN — C32284 — LICENSED ARCHITECT — STATE OF CALIFORNIA — 12/31/27 Renewal Date

SHEET TITLE:

IMPROVEMENT PLAN (BLDG 1A)

SHEET NUMBER:

A2-1.1 2

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1/8" = 1'

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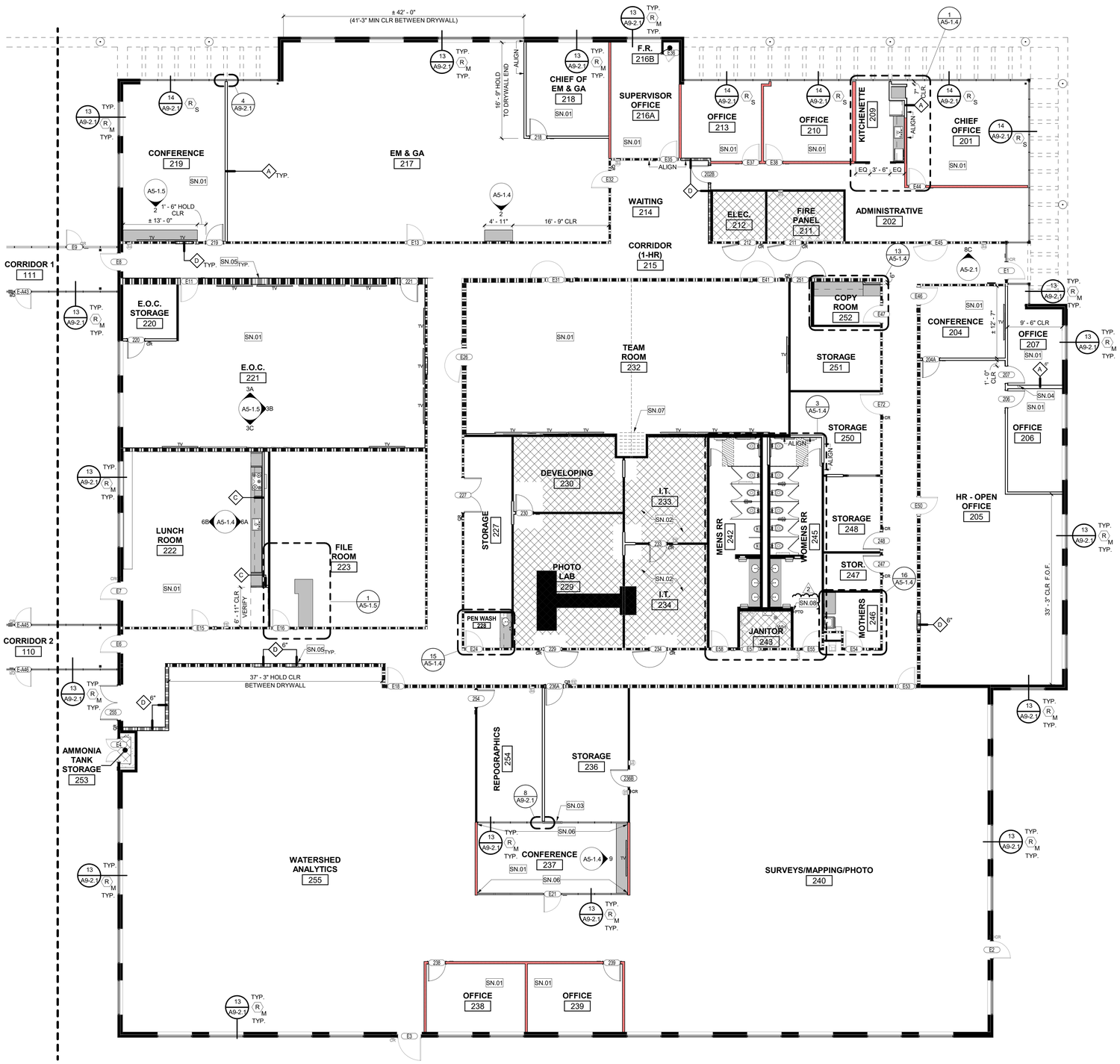

IMPROVEMENT PLAN - BUILDING 1

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

LEGEND

- (E) WALL TO REMAIN
- METAL STUD WALL: (20 GA) METAL STUDS @ 16" O.C., UNLESS OTHERWISE NOTED.
- (E) WALL TO EXTEND TO DECK, DETAIL 7 / A9-2.1
- 1 HR FIRE RATED WALL
- 2 HR FIRE RATED WALL
- MILLWORK, SEE MILLWORK DETAILS
- FIRE EXTINGUISHER SEMI-RECESSED, SEE 12 / A9-2.1
- FIRE EXTINGUISHER SURFACE MOUNTED

WALL REFERENCE

WALL TYPE
STUD SIZE (WHERE OCCURS)
LOW PARTITION HEIGHT (WHERE OCCURS)

(TYPICAL WALL TYPE **A** UNLESS OTHERWISE NOTED) SEE 1 / A9-1.1

DOOR REFERENCE

DOOR TAG SEE 03 / A6-2.1

WINDOW COVERING REFERENCE

Window Covering Mounting Reference
M=Mullion Mounted
S=Surface Mounted to (E) Window Shade Pocket

WINDOW COVERING (R) = ROLLER SHADE, MECHOSHADE MECHO 5 SYSTEM OR EQUAL MANUALLY OPERATED, CHAIN DRIVE
PROVIDE TIE DOWN FOR CHAIN "CHAIN RETAINER" WITH CHAIN TAUT SUNSCREEN SINGLE ROLLER SHADE THROUGHOUT

SUNSCREEN FABRIC: MECHOSHADE THERMOVEIL, COLOR: TBD

AREA N.I.C.

SINK:
AT PLAM SURFACE: PROVIDE TOP MOUNT SINK
AT SOLID SURFACE: PROVIDE UNDER-MOUNT SINK

GENERAL NOTES

1. ALL WALLS FINISHED TO BE DRYWALL LEVEL 4 U.N.O.
2. GENERAL CONTRACTOR TO LAYOUT ALL CHALK LINES PRIOR TO PARTITION CONSTRUCTION. SHOULD ANY DISCREPANCIES OCCUR, GENERAL CONTRACTOR IS TO REVIEW WITH THE ARCHITECT IN THE FIELD TO RESOLVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. USE MOISTURE RESISTANT GYPSUM BOARD ON ALL RESTROOMS AND WET WALLS.
4. PROVIDE MINIMUM GYPSUM BOARD FURRING AROUND ALL EXPOSED COLUMNS TO 6" ABOVE SUSPENDED CEILING.
5. PREPARE EXISTING AND NEW SURFACES FOR INSTALLATION OF SPECIFIED FINISHES. ALL SURFACES SHALL BE FREE FROM ADHESIVE, BUMPS, CRACKS, AND MEET THE REQUIREMENTS OF THE FINISH MANUFACTURERS INSTALLATION INSTRUCTIONS.
6. PROVIDE METAL TRIM OR CASING AT ALL EDGES OF CEMENT PLASTER AND GYPSUM BOARD SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, U.N.O.
7. PROVIDE METAL CORNER BEAD AT ALL OUTSIDE CORNERS OF CEMENT PLASTER OR GYPSUM BOARD SURFACES UNLESS NOTED OTHERWISE.
8. PRIOR TO INSTALLATION, FIRE AUTHORITY HAVING JURISDICTION SHALL BE CALLED TO FIELD VERIFY LOCATIONS AND TYPES OF FIRE EXTINGUISHERS AND KNOX BOXES.
9. PROVIDE BACKING FOR ALL WALL MOUNTED EQUIPMENT AND MILLWORK PER DETAIL #11/A9-2.1 2 COORDINATE WITH ARCHITECT FOR ANY UNFORSEEN CONDITIONS.

SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
2 SN.01	PROVIDE ADD ALTERNATE ALLOWANCE FOR INSULQUILT LAID ABOVE CEILING FOR 2 FT. LENGTH OF EACH SIDE OF NEW EXTENDED FULL HEIGHT PARITIONS AT ALL OFFICES AND CONFERENCE ROOMS.
SN.02	INTERIOR OF ROOM TO BE COMPLETED BY RIVERSIDE COUNTY UNDER SEPARATE DOCUMENTATION.
SN.03	PROVIDE NEW 3'-6" X 6'-0" FRAMED TEMPERED GLAZING, 3'-6" A.F.F. TO MATCH EXISTING.
SN.04	PARTITION FRAMING TO ALIGN TO FULLY ENCAPSULATE EXSITING COLUMN.
SN.05	AT ALL RATED PARTITION CONSTRUCTION, ANY INFILL FRAMING, MODIFICATIONS, AND CONSTRUCTION TO MATCH THE (E) ADJACENT ASSEMBLY SYSTEM TO PROVIDE CONTINUITY OF FIRE RATING. REFERENCE TO UL ASSEMBLY SHEET G-6.1 FOR GENERAL REQUIREMENTS OF A 1HR RATED PARTITION. TYP. ALL LOCATIONS.
SN.06	EXTEND PARTITION FRAMING TO DECK ABOVE (E) GLAZING, REFERENCE DETAIL 7/A9-2.1
SN.07	PROVIDE ADD ALTERNATE ALLOWANCE FOR NEW MOVEABLE DOORS AND PANEL FINISH. TRACK AND TROLLY TO REMAIN IN PLACE.
2 SN.08	PROVIDE NEW CONNECTION TO RELOCATED MOTORIZED DOOR PUSH BUTTON. SEE 7/A9-2.1 FOR MOUNTING HEIGHTS. 2

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LICENSED ARCHITECT — JOSHUA JAMES FORTH — C32284 — Exp. 08/31/27 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

IMPROVEMENT PLAN (BLDG 1)

SHEET NUMBER:

A2-1.2 2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
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1/8" = 1'

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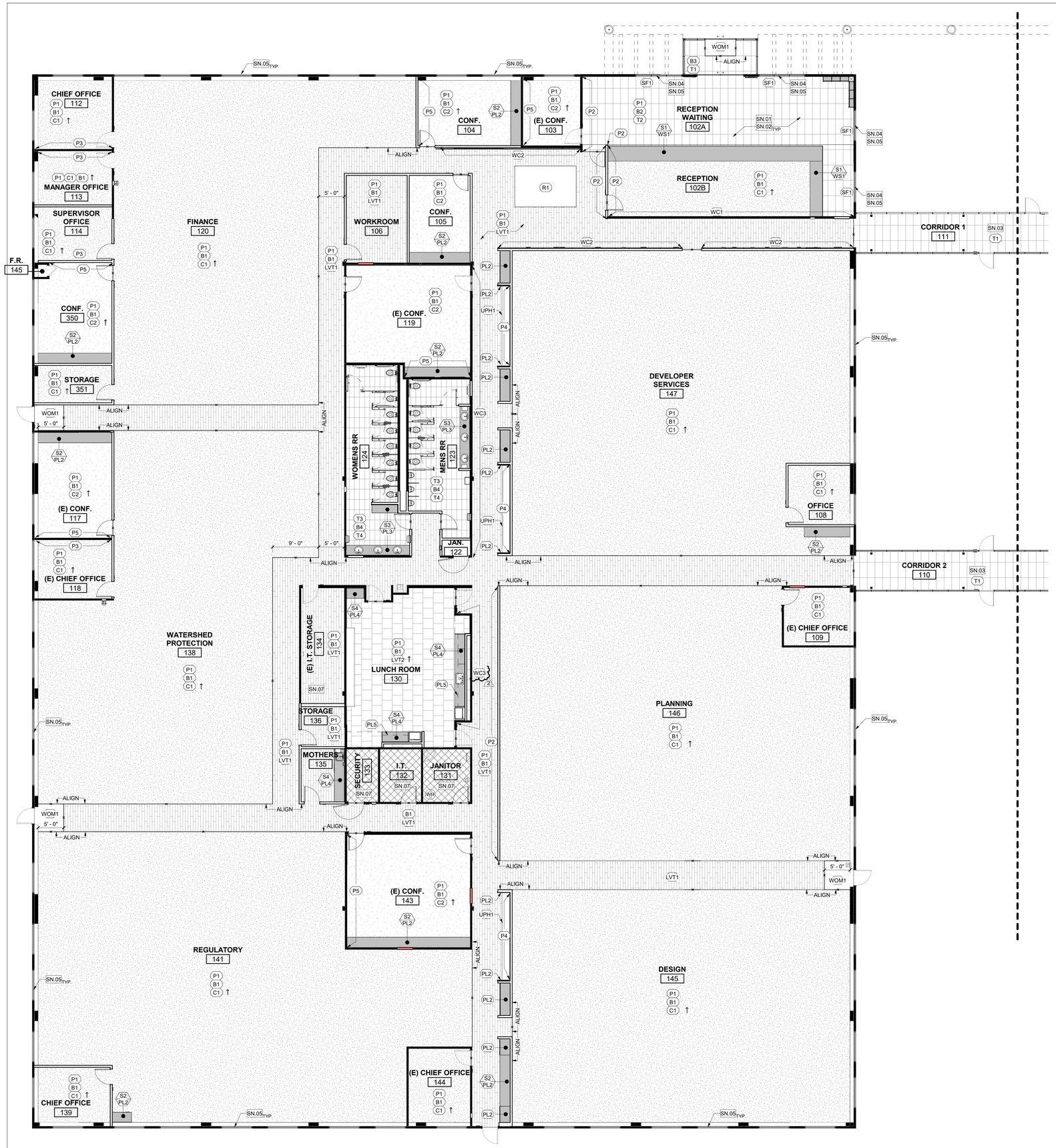

FINISH PLAN - BUILDING 1A

1A

1/8" = 1'-0"

LEGEND

- INSTALLATION DIRECTION
- X1 — FINISH TAG - WALLS, FLOORS, BASE, MILLWORK SEE FINISH SCHEDULE ON A6-1.1
- MILLWORK TAG
  - T1 — FINISH - TOP SURFACE
  - F1 — FINISH - FACE SURFACE
- FLOOR FINISH 1
- FLOOR FINISH 2
- FLOOR MATERIAL TRANSITION, SEE 1 / A9-2.1 & 5 / A9-2.1 WHERE OCCURS.

GENERAL NOTES

1. PRODUCTS SCHEDULED ARE TO ESTABLISH THE BASES OF DESIGN. SUBSTITUTION OF EQUAL OR BETTER PRODUCTS WILL BE CONSIDERED IN ACCORDANCE WITH THE PROVISIONS IN THE PROJECT SPECIFICATIONS.
2. FIELD MEASURE FOR ALL GLAZING AND MILLWORK CONDITIONS PRIOR TO MANUFACTURING.
3. PROVIDE TEMPORARY PROTECTION FOR ALL INSTALLED FINISHES AS WORK PROGRESSES.
4. INSTALL WALL FINISH FOR THE FULL HEIGHT OF THE PARTITION WITHOUT BASE. THERE SHALL BE NO UNFINISHED GAPS AT THE BASE OF GYPSUM BOARD
5. ALL EXISTING WALLS TO BE PAINTED, U.N.O.
6. ALL METAL ACCESS DOORS SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING FINISH.
7. PREPARE ALL FLOORS TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION REQUIREMENTS.
8. PRIOR TO INSTALLATION OF FLOORING, SUBMIT WRITTEN CERTIFICATION BY FLOORING MANUFACTURER AND ADHESIVE MANUFACTURER THAT CONDITION OF SUB-FLOOR IS ACCEPTABLE. CONTRACTOR TO COMPLETE MOISTURE TESTING PER PER ASTM F-710, ASTM-F 2170-11 AND ASTM F-1869-10 RECOMMENDATIONS AND SUBMIT TO ARCHITECT FOR REVIEW. OBTAIN INSTRUCTIONS IF TEST RESULTS ARE NOT WITHIN LIMITS RECOMMENDED BY FLOORING MATERIALS MANUFACTURER.
9. PROVIDE ALLOWANCE TO FLOAT FLOOR WHERE NECESSARY TO ACHIEVE TOLERANCE OF 1/4" MAX. IN 10'-0" SPAN.
10. ALL CERAMIC, PORCELAIN, AND LVT TO BE INSTALLED WITH FULL TILE FROM TRANSITION AT DOOR AND FULL TILE FROM WALL PERPENDICULAR TO DOOR, U.N.O.
11. COORDINATE THE INSTALLATION OF WALL BASE WITH ANY MILLWORK. REMOVE BASE WHERE BUILT-IN CABINETS ARE INDICATED.

SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
SN.01	INTERIOR FINISH MATERIALS APPLIED TO FLOORS SHALL MEET THE FIRE PERFORMANCE LIMITATIONS PRESCRIBED IN CBC SECTION 804. (CBC 801.3)
SN.02	INTERIOR FINISH MATERIALS APPLIED TO WALLS AND CEILINGS SHALL MEET THE FIRE PERFORMANCE AND SMOKE DEVELOPMENT LIMITATIONS PRESCRIBED IN CBC SECTION 803. (CBC 801.2)
SN.03	START POINT FOR CENTERLINE OF FULL TILE.
SN.04	LOBBY WINDOWS TO RECEIVE NEW SOLAR WINDOW TINT
SN.05	NEW WINDOW COVERINGS THROUGHOUT. REFER TO SHEET A2-1.1 & A2-1.2 FOR MORE INFORMATION.
SN.07	FOR NIC AREAS, PROTECT IN-PLACE FINISHES AND EQUIPMENT. DOORS MAY UPDATE HARDWARE OR BE REPLACED/REFINISHED

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SHEET TITLE:

FINISH PLAN (BLDG 1A)

SHEET NUMBER:

A2-3.1 2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
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1/8" = 1'

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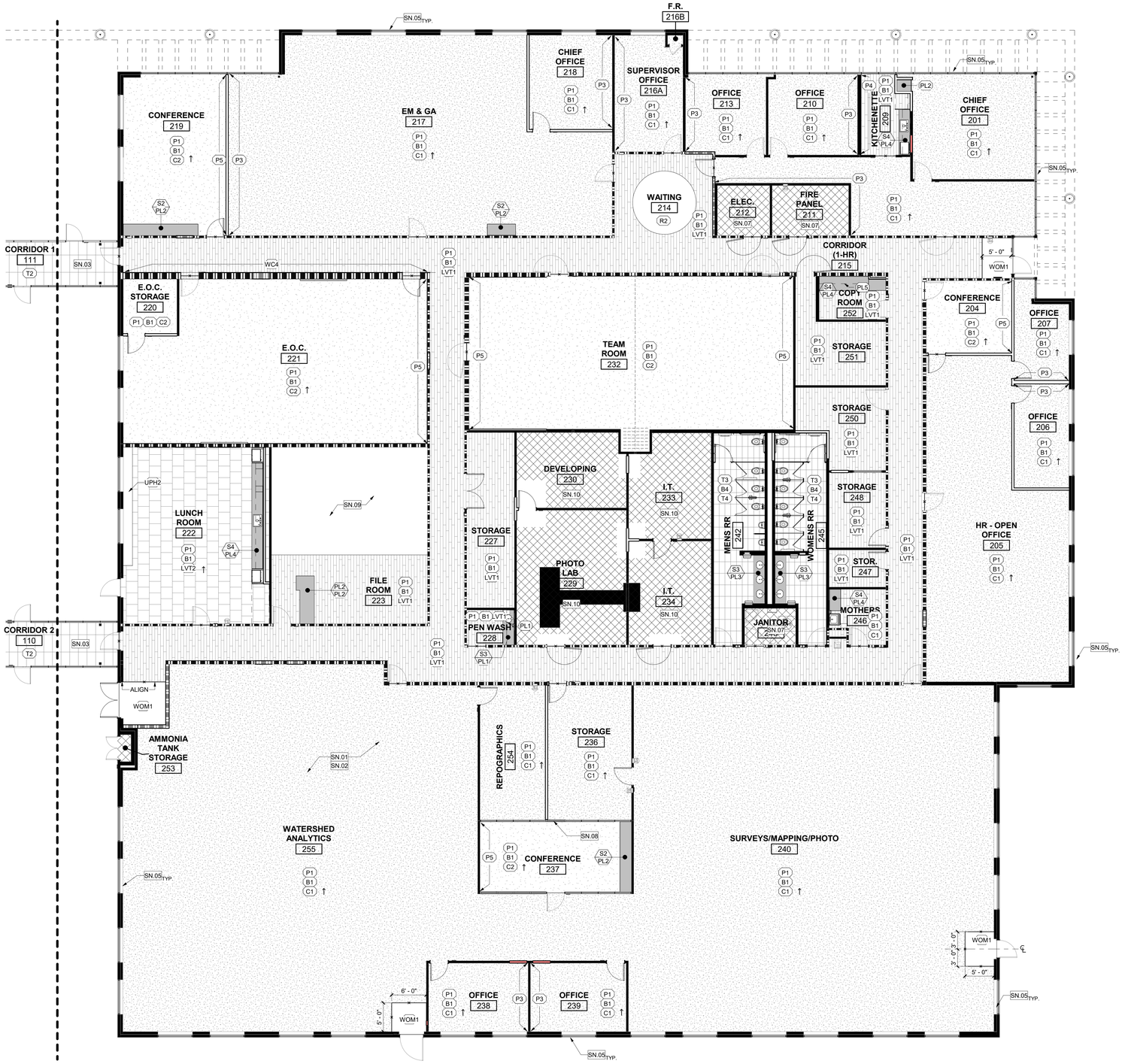

FINISH PLAN - BUILDING 1A | 1 | 1/8" = 1'-0"

LEGEND

- INSTALLATION DIRECTION
- X1 — FINISH TAG - WALLS, FLOORS, BASE, MILLWORK SEE FINISH SCHEDULE ON A6-1.1
- MILLWORK TAG
  - T1 — FINISH - TOP SURFACE
  - F1 — FINISH - FACE SURFACE
- FLOOR FINISH 1
- FLOOR FINISH 2
- FLOOR MATERIAL TRANSITION, SEE 1 / A9-2.1 & 5 / A9-2.1 WHERE OCCURS.

GENERAL NOTES

1. PRODUCTS SCHEDULED ARE TO ESTABLISH THE BASES OF DESIGN. SUBSTITUTION OF EQUAL OR BETTER PRODUCTS WILL BE CONSIDERED IN ACCORDANCE WITH THE PROVISIONS IN THE PROJECT SPECIFICATIONS.
2. FIELD MEASURE FOR ALL GLAZING AND MILLWORK CONDITIONS PRIOR TO MANUFACTURING.
3. PROVIDE TEMPORARY PROTECTION FOR ALL INSTALLED FINISHES AS WORK PROGRESSES.
4. INSTALL WALL FINISH FOR THE FULL HEIGHT OF THE PARTITION WITHOUT BASE. THERE SHALL BE NO UNFINISHED GAPS AT THE BASE OF GYPSUM BOARD
5. ALL EXISTING WALLS TO BE PAINTED, U.N.O.
6. ALL METAL ACCESS DOORS SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING FINISH.
7. PREPARE ALL FLOORS TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION REQUIREMENTS.
8. PRIOR TO INSTALLATION OF FLOORING, SUBMIT WRITTEN CERTIFICATION BY FLOORING MANUFACTURER AND ADHESIVE MANUFACTURER THAT CONDITION OF SUB-FLOOR IS ACCEPTABLE. CONTRACTOR TO COMPLETE MOISTURE TESTING PER PER ASTM F-710, ASTM-F 2170-11 AND ASTM F-1869-10 RECOMMENDATIONS AND SUBMIT TO ARCHITECT FOR REVIEW. OBTAIN INSTRUCTIONS IF TEST RESULTS ARE NOT WITHIN LIMITS RECOMMENDED BY FLOORING MATERIALS MANUFACTURER.
9. PROVIDE ALLOWANCE TO FLOAT FLOOR WHERE NECESSARY TO ACHIEVE TOLERANCE OF 1/4" MAX. IN 10'-0" SPAN.
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11. COORDINATE THE INSTALLATION OF WALL BASE WITH ANY MILLWORK. DELETE BASE WHERE BUILT-IN CABINETS ARE INDICATED.

SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
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SN.03	START POINT FOR CENTERLINE OF FULL TILE.
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SN.07	FOR NIC AREAS, PROTECT IN-PLACE FINISHES AND EQUIPMENT. DOORS MAY UPDATE HARDWARE OR BE REPLACED/REFINISHED
SN.08	NEW WINDOW TO RECEIVE WINDOW TINT TO MATCH EXISTING WINDOW TINT
SN.09	(E) HIGH DENSITY FILING. FLOORING TO REMAIN.
SN.10	(E) FINISHES TO REMAIN IN PLACE.

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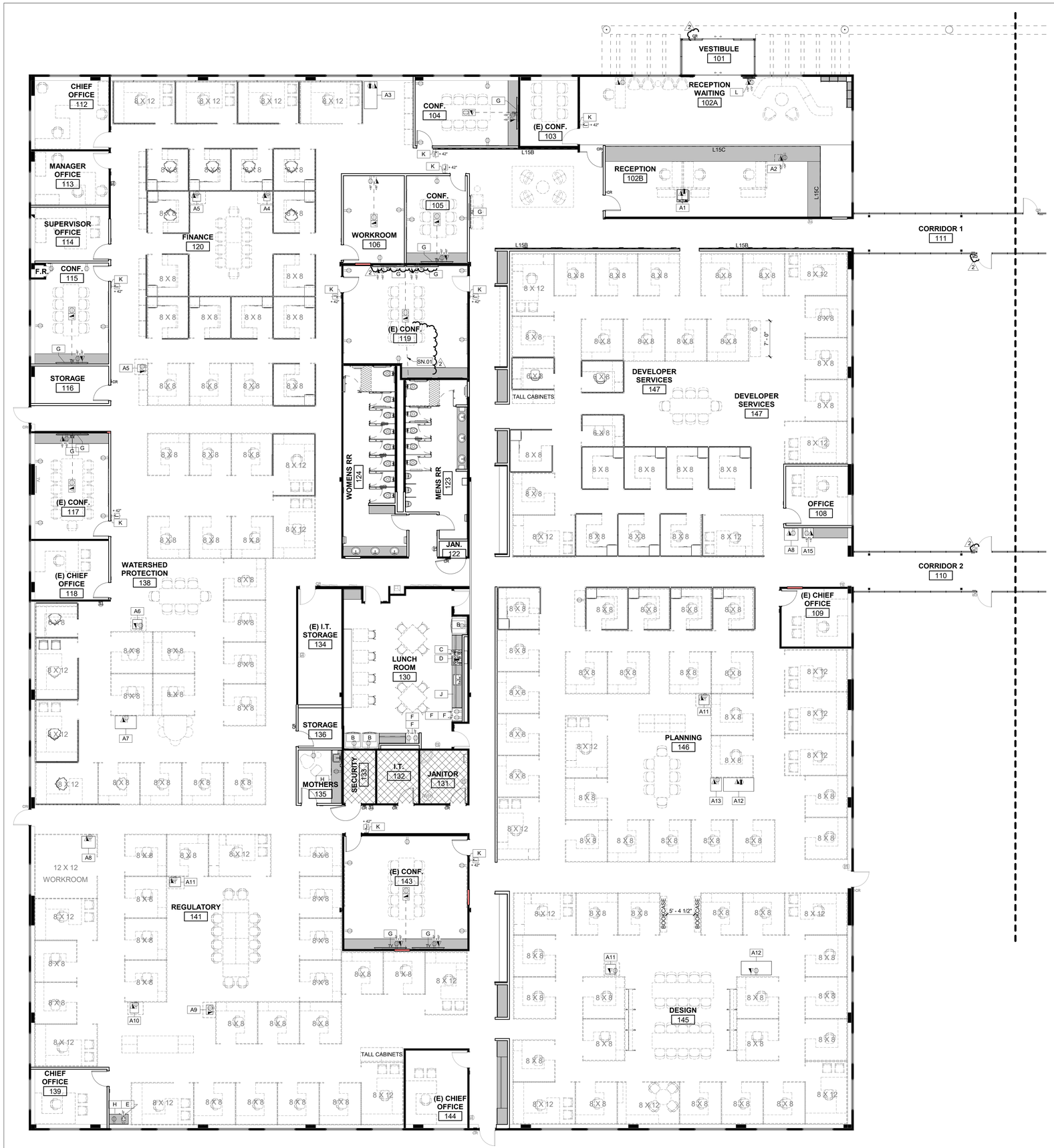


LEGEND

- OUTLET FLOOR - DUPLEX
- OUTLET FLOOR - FEED
- OUTLET WALL - DUPLEX
- OUTLET WALL - FEED

GENERAL NOTES

1. EXISTING ITEMS, WHERE OCCUR, ARE IDENTIFIED WITH THE MARKER (E).
2. ALL EXPOSED OUTLETS TO MEET ALL ACCESSIBLE HEIGHT REQUIREMENTS (REFERENCE DIAGRAM BELOW), REMOVE NON-COMPLIANT J-BOX, PATCH AND REPAIR TO MATCH ADJACENT FINISH.
3. IF ANY OUTLETS CAN NOT BE INSTALLED AS NOTED OR AS SHOWN ON PLANS DUE TO CONFLICTING CONDITIONS, CLARIFY WITH WESTGROUP DESIGNS BEFORE PROCEEDING WITH OUTLETS IN QUESTION OR ADJACENT OUTLETS IN AREA.
4. ARCHITECTURAL DRAWINGS GOVERN OUTLET LOCATIONS. VERIFY WITH WESTGROUP DESIGNS ANY DISCREPANCIES WITH THE ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION.
5. WHEN OUTLETS/SWITCHES ARE GROUPED TOGETHER, GANG WITH COMMON FACEPLATE AS MUCH AS PRACTICABLE WITH INDIVIDUAL ADJACENT FACEPLATES WITHIN A STUDS WIDTH APART.
6. ALL EXISTING 'NOT USED' RECEPTACLES SHALL BE REMOVED, PATCHED AND REPAIRED TO MATCH ADJACENT SURFACE.
7. ALL ISOLATED GROUND RECEPTACLES SHALL BE GRAY WITH WHITE COVER PLATES.
8. ALL TELEPHONE AND DATA COVERPLATES SHALL BE SIMILAR IN COLOR AND APPEARANCE TO DUPLEX/SWITCH COVERPLATES.
9. MARK LOCATIONS OF ALL FLOOR MOUNTED RECEPTICALS AND OBTAIN OWNER APPROVAL PRIOR TO PROCEEDING WITH CORING.
10. TELEPHONE AND DATA CABLE TO BE PLENUM RATED, AND SUPPORTED INDEPENDENT FROM SUSPENDED CEILING.
11. WHERE ELECTRICAL WORK IN CONJUNCTION WITH MILLWORK REQUIRES CUT OUTS FOR SWITCHES, OUTLETS, OR SIMILAR INTERFACE, THE CONTRACTOR SHALL SCHEDULE A MEETING BETWEEN THE MILLWORK CONTRACTOR AND ELECTRICAL CONTRACTOR TO COORDINATE THE WORK.
12. SCHEDULE THE CORING OF ANY FLOOR OUTLETS WITH BUILDING OWNER TO PREVENT DISTURBANCE OR DAMAGE TO OTHER TENANT SPACES.
13. PRIOR TO PURCHASING ELECTRICAL AND DATA OUTLETS AND COVERPLATES, THE CONTRACTOR SUBMITTED ITEMS SHALL BE FIELD MATCHED AGAINST THE EXISTING ITEMS TO CONFIRM COLOR SELECTION.
14. ALL POWER RECEPTACLES WITHIN 6'-0" OF SINK SHALL BE GFCI.
15. TENANT/OWNER'S FURNITURE CONSULTANT TO PROVIDE ARITECT AND GENERAL CONTRACTOR WITH SCALED INSTALLATION DRAWING OF FURNITURE PLAN SHOWING REQUIRED CLEARANCES, PANEL/DESKING SYSTEMS, COMPONENT, AND CASEGOODS WITH WIRING AND POWER REQUIREMENTS, TYPE OF POWER IN-FEED AS OCCURS AND FIELD-VERIFIED LOCATIONS OF RECEPTACLES ON WALLS, FLOORS, AND CEILING WHICH SERVE FURNITURE COMPONENTS. DIMENSIONS TO BE PROVIDED FROM CONTROL POINTS. FURNITURE DEALER TO COORDINATE WITH ARCHITECT AND GC FOR LIGHTING, EQUIPMENT, MILLWORK, AND OTHER ARCHITECTURAL ELEMENTS WHICH MIGHT BE AFFECTED BY FURNITURE PLACEMENT. ARCHITECT IS NOT RESPONSIBLE FOR VERIFYING FURNITURE, FIXTURE, OR POWER LOCATIONS WHICH SERVE FURNITURE.

SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
SN.01	CONDUIT CONNECTION TO COMPUTER TOWER IN CABINET.

EQUIPMENT SCHEDULE

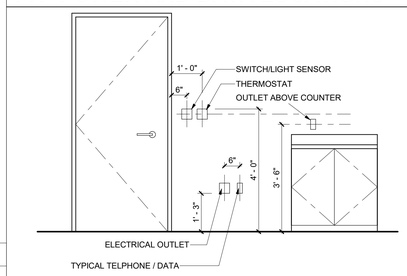
X EQUIPMENT TAG

TAG	DESCRIPTION	MFR	MODEL	FURNISHED	INSTALLED	NOTES
A1	COPY/PRINT	CANON	IMAGERUNNER ADVANCE DX 4735i	OWNER	OWNER	1
A2	LASERJET PRINTER	HP	P3005DN	OWNER	OWNER	1, 7
A3	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 8505i	OWNER	OWNER	1, 9
A4	COLOR LASERJET PRINTER	HP	M283FDW	OWNER	OWNER	
A5	COLOR LASERJET PRINTER	HP	M609	OWNER	OWNER	
A6	COLOR LASERJET PRINTER	HP	M750DN	OWNER	OWNER	
A7	COPY/PRINT	CANON	IMAGERUNNER ADVANCE C5850i	OWNER	OWNER	1, 9
A8	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 4525i	OWNER	OWNER	1
A9	LASERJET PRINTER	HP	P4014DN	OWNER	OWNER	
A10	LARGE FORMAT PRINTER	HP	PAGEWIDE XL 5200	OWNER	OWNER	1
A11	COLOR LASERJET PRINTER	HP	M751	OWNER	OWNER	
A12	LARGE FORMAT PRINTER	HP	DESIGNJET T1700	OWNER	OWNER	1
A13	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 4235i	OWNER	OWNER	1
A14	EPSON STYLUS PRO	EPSON	9880	OWNER	OWNER	1
A15	COLOR LASERJET PRINTER	HP	CP5225	OWNER	OWNER	
A17	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 4225i	OWNER	OWNER	1
A18	COLOR LASERJET PRINTER	HP	M750XH	OWNER	OWNER	1
A19	LARGE FORMAT PRINTER	OCE	COLORWAVE 3500	OWNER	OWNER	1
A20	LARGE FORMAT PRINTER	HP	DESIGNJET T1530	OWNER	OWNER	1
A21	COPY/PRINT	CANON	IMAGERUNNER ADVANCE C5870i	OWNER	OWNER	1
A22	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 8205	OWNER	OWNER	1, 9
A23	SCANNER	COLORTRAC	TBD BY OWNER	OWNER	OWNER	1
A24	IMAGEFORCE	CANON	C7165	OWNER	OWNER	1
B	LG 33"W Refrigerator - STANDARD DEPTH	LG	LF25H6200S	GC	GC	
C	VENT HOOD	SUMMIT	H36RSSADA	GC	GC	
D	ELECTRIC COOKTOP	LG BUILDER	LSCE365ST	GC	GC	
E	COFFEE MACHINE	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
F	MICROWAVE	LG PRO BUILDER	MSER2090S	GC	GC	8
G	80" DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	GC	2, 6
G1	65" DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	GC	2, 6
H	ADA UNDERCOUNTER REF.	SUMMIT	AL54	GC	GC	
J	OSMOSIS SYSTEM	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
K	SCHEDULING TABLET	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
L	LOBBY DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	OWNER	2, 6

EQUIPMENT NOTES

1. COORDINATE EQUIPMENT SIZE WITH OWNER.
2. PROVIDE BACKING FOR WALL MOUNTED EQUIPMENT PER DETAIL 11/A9-2.1
3. TYP. AT ALL OFFICES AND WORKSTATIONS.
4. PROVIDE BUILDING STANDARD CARD READERS AT THESE LOCATIONS.
5. PROVIDE RECESSED CLOCK OUTLET FOR ALL WALL MOUNTED EQUIPMENT REQUIRING POWER, LEGRAND EVOLUTION SERIES WALL BOX OR SIMILAR.
6. T.V. WALL BOX: CHIEF PAC 525F RECESSED BOX OR EQUAL.
7. REFER TO ELEVATIONS FOR PRINTER LOCATION.
8. MICROWAVE TRIM KIT: MK2230NST; ONLY APPLICABLE FOR BUILT-IN.
9. SPECIALTY POWER REQUIRED. REFER ELECTRICAL PLANS FOR MORE DETAILS.

TYP POWER AND DATA LOCATIONS



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

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EQUIPMENT PLAN (BLDG 1A)

SHEET NUMBER:

A2-4.1

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1/8" = 1'

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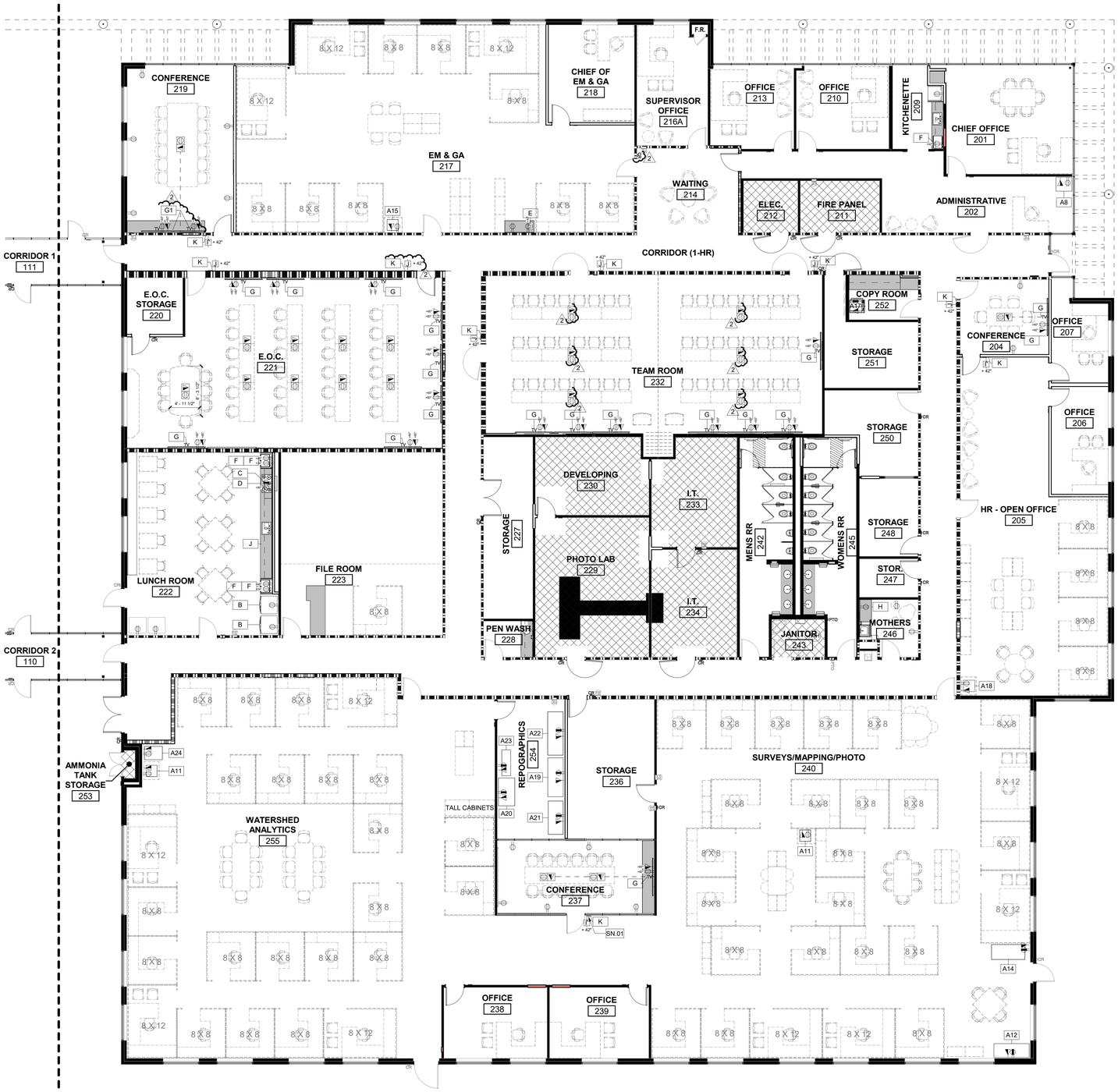


EQUIPMENT PLAN - BUILDING 1 | 1B | 1/8" = 1'-0"

LEGEND

- OUTLET FLOOR - DUPLEX
- OUTLET FLOOR - FEED
- OUTLET WALL - DUPLEX
- OUTLET WALL - FEED

GENERAL NOTES

1. EXISTING ITEMS, WHERE OCCUR, ARE IDENTIFIED WITH THE MARKER (E).
2. ALL EXPOSED OUTLETS TO MEET ALL ACCESSIBLE HEIGHT REQUIREMENTS (REFERENCE DIAGRAM BELOW), REMOVE NON-COMPLIANT J-BOX, PATCH AND REPAIR TO MATCH ADJACENT FINISH.
3. IF ANY OUTLETS CAN NOT BE INSTALLED AS NOTED OR AS SHOWN ON PLANS DUE TO CONFLICTING CONDITIONS, CLARIFY WITH WESTGROUP DESIGNS BEFORE PROCEEDING WITH OUTLETS IN QUESTION OR ADJACENT OUTLETS IN AREA.
4. ARCHITECTURAL DRAWINGS GOVERN OUTLET LOCATIONS. VERIFY WITH WESTGROUP DESIGNS ANY DISCREPANCIES WITH THE ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION.
5. WHEN OUTLETS/SWITCHES ARE GROUPED TOGETHER, GANG WITH COMMON FACEPLATE AS MUCH AS PRACTICABLE WITH INDIVIDUAL ADJACENT FACEPLATES WITHIN A STUDS WIDTH APART.
6. ALL EXISTING 'NOT USED' RECEPTACLES SHALL BE REMOVED, PATCHED AND REPAIRED TO MATCH ADJACENT SURFACE.
7. ALL ISOLATED GROUND RECEPTACLES SHALL BE GRAY WITH WHITE COVER PLATES.
8. ALL TELEPHONE AND DATA COVERPLATES SHALL BE SIMILAR IN COLOR AND APPEARANCE TO DUPLEX/SWITCH COVERPLATES.
9. MARK LOCATIONS OF ALL FLOOR MOUNTED RECEPTICALS AND OBTAIN OWNER APPROVAL PRIOR TO PROCEEDING WITH CORING.
10. TELEPHONE AND DATA CABLE TO BE PLENUM RATED, AND SUPPORTED INDEPENDENT FROM SUSPENDED CEILING.
11. WHERE ELECTRICAL WORK IN CONJUNCTION WITH MILLWORK REQUIRES CUT OUTS FOR SWITCHES, OUTLETS, OR SIMILAR INTERFACE, THE CONTRACTOR SHALL SCHEDULE A MEETING BETWEEN THE MILLWORK CONTRACTOR AND ELECTRICAL CONTRACTOR TO COORDINATE THE WORK.
12. SCHEDULE THE CORING OF ANY FLOOR OUTLETS WITH BUILDING OWNER TO PREVENT DISTURBANCE OR DAMAGE TO OTHER TENANT SPACES.
13. PRIOR TO PURCHASING ELECTRICAL AND DATA OUTLETS AND COVERPLATES, THE CONTRACTOR SUBMITTED ITEMS SHALL BE FIELD MATCHED AGAINST THE EXISTING ITEMS TO CONFIRM COLOR SELECTION.
14. ALL POWER RECEPTACLES WITHIN 6'-0" OF SINK SHALL BE GFCI.
15. TENANT/OWNER'S FURNITURE CONSULTANT TO PROVIDE ARITECT AND GENERAL CONTRACTOR WITH SCALED INSTALLATION DRAWING OF FURNITURE PLAN SHOWING REQUIRED CLEARANCES, PANEL/DESKING SYSTEMS, COMPONENT, AND CASEGOODS WITH WIRING AND POWER REQUIREMENTS, TYPE OF POWER IN-FEED AS OCCURS AND FIELD-VERIFIED LOCATIONS OF RECEPTACLES ON WALLS, FLOORS, AND CEILING WHICH SERVE FURNITURE COMPONENTS. DIMENSIONS TO BE PROVIDED FROM CONTROL POINTS. FURNITURE DEALER TO COORDINATE WITH ARCHITECT AND GC FOR LIGHTING, EQUIPMENT, MILLWORK, AND OTHER ARCHITECTURAL ELEMENTS WHICH MIGHT BE AFFECTED BY FURNITURE PLACEMENT. ARCHITECT IS NOT RESPONSIBLE FOR VERIFYING FURNITURE, FIXTURE, OR POWER LOCATIONS WHICH SERVE FURNITURE.

SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
SN.01	CONCEAL WIRING FOR EQUIPMENT IN MULLION.

EQUIPMENT SCHEDULE

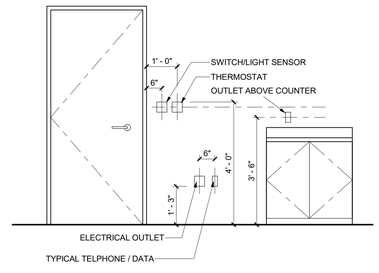
X EQUIPMENT TAG

TAG	DESCRIPTION	MFR	MODEL	FURNISHED	INSTALLED	NOTES
A1	COPY/PRINT	CANON	IMAGERUNNER ADVANCE DX 4735i	OWNER	OWNER	1
A2	LASERJET PRINTER	HP	P3005DN	OWNER	OWNER	1, 7
A3	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 8505i	OWNER	OWNER	1, 9
A4	COLOR LASERJET PRINTER	HP	M283FDW	OWNER	OWNER	
A5	COLOR LASERJET PRINTER	HP	M609	OWNER	OWNER	
A6	COLOR LASERJET PRINTER	HP	M750DN	OWNER	OWNER	
A7	COPY/PRINT	CANON	IMAGERUNNER ADVANCE C5850i	OWNER	OWNER	1, 9
A8	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 4525i	OWNER	OWNER	1
A9	LASERJET PRINTER	HP	P4014DN	OWNER	OWNER	
A10	LARGE FORMAT PRINTER	HP	PAGEWIDE XL 5200	OWNER	OWNER	1
A11	COLOR LASERJET PRINTER	HP	M751	OWNER	OWNER	
A12	LARGE FORMAT PRINTER	HP	DESIGNJET T1700	OWNER	OWNER	1
A13	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 4235i	OWNER	OWNER	1
A14	EPSON STYLUS PRO	EPSON	9880	OWNER	OWNER	1
A15	COLOR LASERJET PRINTER	HP	CP5225	OWNER	OWNER	
A17	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 4225i	OWNER	OWNER	1
A18	COLOR LASERJET PRINTER	HP	M750XH	OWNER	OWNER	1
A19	LARGE FORMAT PRINTER	OCE	COLORWAVE 3500	OWNER	OWNER	1
A20	LARGE FORMAT PRINTER	HP	DESIGNJET T1530	OWNER	OWNER	1
A21	COPY/PRINT	CANON	IMAGERUNNER ADVANCE C5870i	OWNER	OWNER	1
A22	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 8205	OWNER	OWNER	1, 9
A23	SCANNER	COLORTRAC	TBD BY OWNER	OWNER	OWNER	1
A24	IMAGEFORCE	CANON	C7165	OWNER	OWNER	1
B	LG 33"W Refrigerator - STANDARD DEPTH	LG	LF25H6200S	GC	GC	
C	VENT HOOD	SUMMIT	H36RSSADA	GC	GC	
D	ELECTRIC COOKTOP	LG BUILDER	LSCE365ST	GC	GC	
E	COFFEE MACHINE	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
F	MICROWAVE	LG PRO BUILDER	MSER2090S	GC	GC	8
G	80" DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	GC	2, 6
G1	65" DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	GC	2, 6
H	ADA UNDERCOUNTER REF.	SUMMIT	AL54	GC	GC	
J	OSMOSIS SYSTEM	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
K	SCHEDULING TABLET	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
L	LOBBY DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	OWNER	2, 6

EQUIPMENT NOTES

1. COORDINATE EQUIPMENT SIZE WITH OWNER.
2. PROVIDE BACKING FOR WALL MOUNTED EQUIPMENT PER DETAIL 11/A9-2.1
3. TYP. AT ALL OFFICES AND WORKSTATIONS.
4. PROVIDE BUILDING STANDARD CARD READERS AT THESE LOCATIONS.
5. PROVIDE RECESSED CLOCK OUTLET FOR ALL WALL MOUNTED EQUIPMENT REQUIRING POWER, LEGRAND EVOLUTION SERIES WALL BOX OR SIMILAR.
6. T.V. WALL BOX: CHIEF PAC 525F RECESSED BOX OR EQUAL.
7. REFER TO ELEVATIONS FOR PRINTER LOCATION.
8. MICROWAVE TRIM KIT: MK2030NST; ONLY APPLICABLE FOR BUILT-IN.
9. SPECIALTY POWER REQUIRED. REFER ELECTRICAL PLANS FOR MORE DETAILS.

TYP POWER AND DATA LOCATIONS



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OFFICE RENOVATION
RIVERSIDE COUNTY FLOOD CONTROL DISTRICT
1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

REVISIONS:

2	BID ADDENDUM #02	04/17/2026

REGISTRATION/SIGNATURE:

JOSHUA JAMES FORSYTH — LICENSED ARCHITECT — C32264 — STATE OF CALIFORNIA — Renewal Date: 08/31/2027

SHEET TITLE:

EQUIPMENT PLAN (BLDG 1)

SHEET NUMBER:

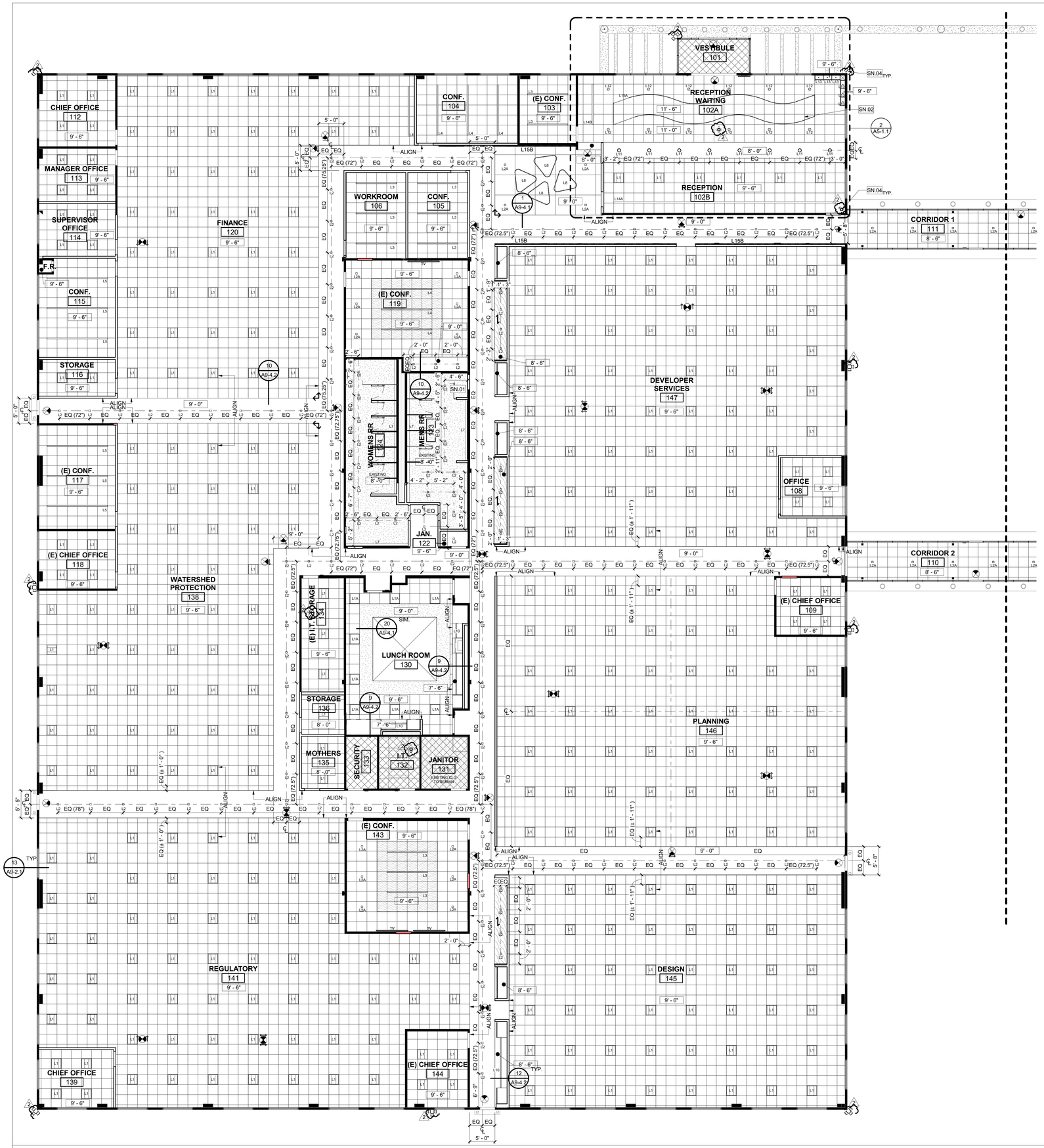
A2-4.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
25811	IG/AD/TT	JF	12/22/25

© WESTGROUP DESIGNS, INC.

1/8" = 1'

0 8 16 24



LEGEND

- 9/16" x 2' x 2' ARMSTRONG INTERLUDE XL GRID IN WHITE WITH ARMSTRONG DUNE ANGLED TEGULAR PANELS IN WHITE COLOR OR APPROVED EQUAL.
- 5/8" GYPSUM BOARD CEILING OVER METAL STUD, LEVEL 5 FINISH AT EXISTING TUNNEL-CONSTRUCTED 1-HR RATED CORRIDOR
- 9/16" x 2' x 2' ARMSTRONG INTERLUDE XL GRID IN WHITE WITH ARMSTRONG LYRA PLANT BASED SQUARE TEGULAR IN WOODTONE TOFFEE CHESTNUT COLOR OR APPROVED EQUAL.
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- NEW GYPSUM BOARD CEILING TO MATCH EXISTING
- EXIT SIGN, SEE ELECTRICAL
  - CEILING MOUNTED
  - DIRECTIONAL ARROWS
  - WALL MOUNTED
- X'-X" — INDICATES HEIGHT OF CEILING ABOVE FINISH FLOOR
- INDICATES START OF CEILING GRID
- AREA N.I.C.
- EXISTING SKYLIGHT TO REMAIN

GENERAL NOTES

1. CENTER CEILING TILE IN ROOM U.N.O.
2. AT TEGULAR TILES, ALL EDGES TO BE FACTORY FINISH. IF NOT ABLE TO HAVE FACTORY FINISH, CUT EDGES TO BE PAINTED TO MATCH TILE.
3. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE FINISHED LEVEL 5.
4. NOTIFY WESTGROUP DESIGNS OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL OR MECHANICAL DRAWINGS AND OBTAIN CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
5. LOCATE RECESSED DOWNLIGHTS, WALL WASHERS AND SPOT LIGHTS IN THE CENTER OF 2'X2' CEILING TILES, U.N.O.
6. ALL CONDUIT AND HVAC DUCTS SHALL BE INDEPENDENTLY SUSPENDED FROM SAME SUSPENSION AS CEILING SYSTEM.
7. ALL EQUIPMENT IN PLENUM TO BE LOCATED AWAY FROM GYPSUM BOARD CEILINGS. NO ACCESS HATCHES IN GYPSUM BOARD CEILING WITHOUT PRIOR APPROVAL FROM ARCHITECT.
8. LIGHT SENSOR LOCATIONS AS DETERMINED BY THE ELECTRICAL ENGINEER SHALL BE FIELD APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
9. VERIFY ALL CLEARANCES IN PLENUM AREA AND ADVISE ARCHITECT OF MECHANICAL EQUIPMENT THAT REQUIRES RELOCATION.
10. ALL FIRE ALARM SYSTEM, SMOKE DETECTION, AND LIFE SAFETY EQUIPMENT SHALL MATCH BUILDING STANDARD.
11. PROVIDE FLUSH SPRINKLER HEAD COVERS THROUGHOUT IN WHITE FINISH. GC TO CONFIRM COLOR AND FINISH WITH ARCHITECT PRIOR TO PROCUREMENT.

SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
SN.01	PROVIDE GYP. BOARD CEILING TO ALIGN WITH EXISTING GYP. BOARD CEILING. FOR FRAMING DETAIL REFER TO DETAILS #16/A9 -4.2 AND #19/A 9-4.2
SN.02	PROVIDE FRAMED FLOATING SOFFIT. REFER TO DETAIL #7/A 9-4.2
SN.03	PROVIDE NON-BEARING METAL HEADER. FOR FRAMING DETAILS REFER TO DETAILS #11/A 9-4.2
SN.04	REFER TO TECHNOLOGY SHEETS T-4.2 & T-4.3 FOR CEILING AND WALL MOUNTED CAMERA LOCATIONS AND REQUIREMENTS.
SN.05	RELOCATED SOUND MASKING DEVICES.

IMPROVEMENT REFLECTED CEILING PLAN - BUILDLING 1A | 1A | 1/8" = 1'-0"

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REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/2026
2	BID ADDENDUM #02	04/17/2026

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — JOSHUA JAMES FORSYTH — C32284 — Renewal 08/31/27 — STATE OF CALIFORNIA

SHEET TITLE:

REFLECTED CEILING PLAN (BLDG 1A)

SHEET NUMBER:

A3-1.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
25811	IG/AD/TT	JF	12/22/25

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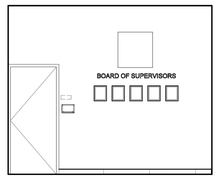
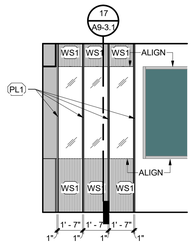
1/8" = 1'

0 8 16 24



3B

1/4" = 1'-0"

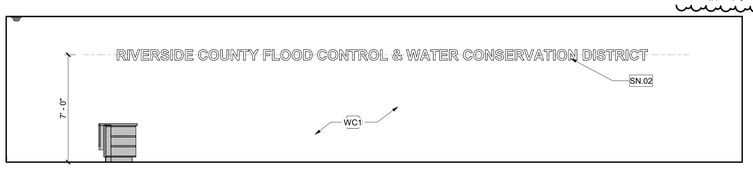


2B

1/4" = 1'-0"

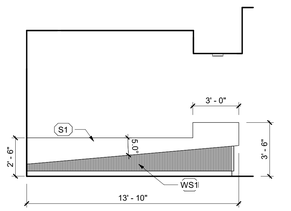
1B

1/4" = 1'-0"



5A

1/4" = 1'-0"



4A

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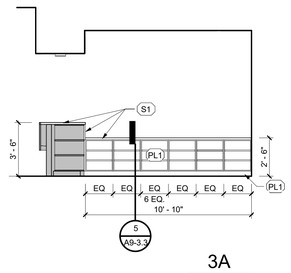

3A

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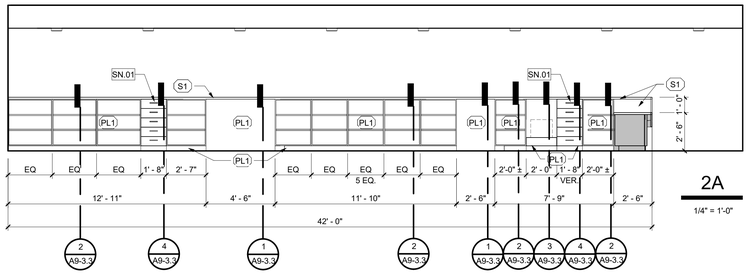

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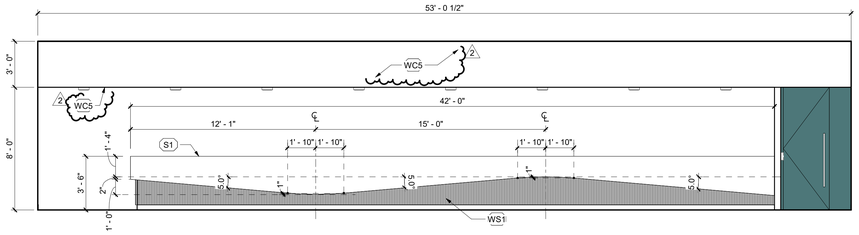
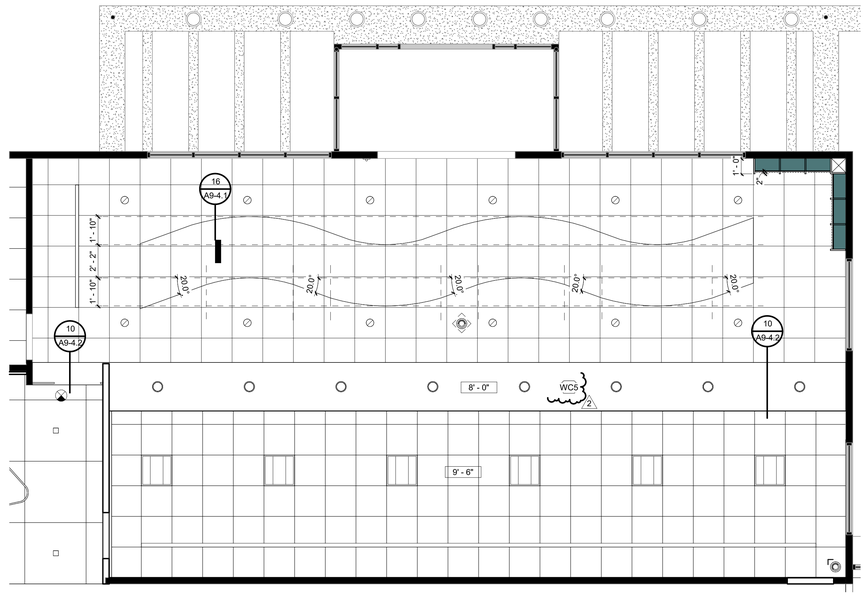


1A

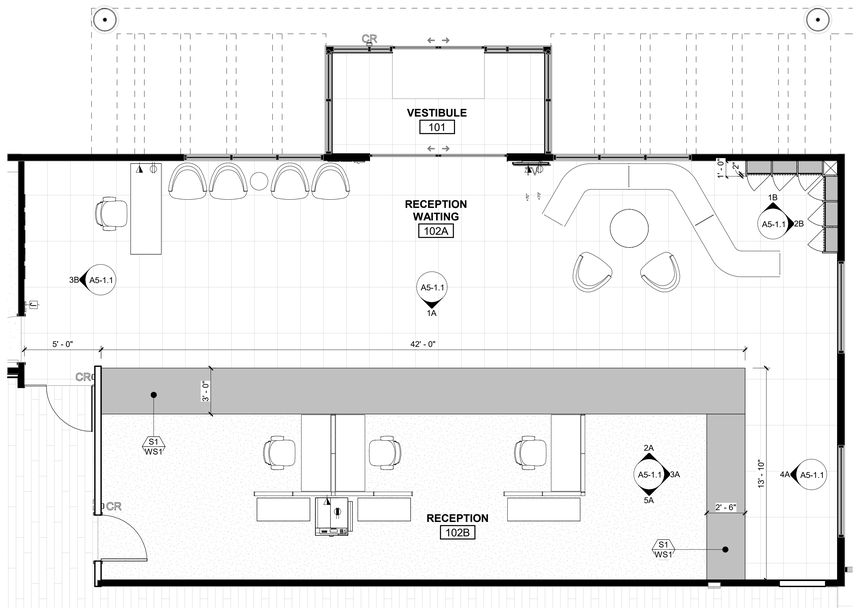
1/4" = 1'-0"



RECEPTION 102 ENLARGED REFLECTED CEILING PLANS

2

1/4" = 1'-0"



RECEPTION 102 ENLARGED PLANS AND ELEVATIONS

1

1/4" = 1'-0"

LEGEND

- INSTALLATION DIRECTION
- X1 — FINISH TAG - WALLS, FLOORS, BASE, MILLWORK SEE FINISH SCHEDULE ON A6-1.1
- MILLWORK TAG
  - T1 — FINISH - TOP SURFACE
  - F1 — FINISH - FACE SURFACE
- FLOOR FINISH 1
- FLOOR FINISH 2
- FLOOR MATERIAL TRANSITION, SEE 1 / A9-2.1 & 5 / A9-2.1 WHERE OCCURS.

GENERAL NOTES

1. PRODUCTS SCHEDULED ARE TO ESTABLISH THE BASES OF DESIGN. SUBSTITUTION OF EQUAL OR BETTER PRODUCTS WILL BE CONSIDERED IN ACCORDANCE WITH THE PROVISIONS IN THE PROJECT SPECIFICATIONS.
2. FIELD MEASURE FOR ALL GLAZING AND MILLWORK CONDITIONS PRIOR TO MANUFACTURING.
3. PROVIDE TEMPORARY PROTECTION FOR ALL INSTALLED FINISHES AS WORK PROGRESSES.
4. INSTALL WALL FINISH FOR THE FULL HEIGHT OF THE PARTITION WITHOUT BASE. THERE SHALL BE NO UNFINISHED GAPS AT THE BASE OF GYPSUM BOARD
5. ALL EXISTING WALLS TO BE PAINTED, U.N.O.
6. ALL METAL ACCESS DOORS SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING FINISH.
7. PREPARE ALL FLOORS TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION REQUIREMENTS.
8. PRIOR TO INSTALLATION OF FLOORING, SUBMIT WRITTEN CERTIFICATION BY FLOORING MANUFACTURER AND ADHESIVE MANUFACTURER THAT CONDITION OF SUB-FLOOR IS ACCEPTABLE. CONTRACTOR TO COMPLETE MOISTURE TESTING PER PER ASTM F-710, ASTM-F 2170-11 AND ASTM F-1869-10 RECOMMENDATIONS AND SUBMIT TO ARCHITECT FOR REVIEW. OBTAIN INSTRUCTIONS IF TEST RESULTS ARE NOT WITHIN LIMITS RECOMMENDED BY FLOORING MATERIALS MANUFACTURER.
9. PROVIDE ALLOWANCE TO FLOAT FLOOR WHERE NECESSARY TO ACHIEVE TOLERANCE OF 1/4" MAX. IN 10'-0" SPAN.
10. ALL CERAMIC, PORCELAIN, AND VCT TO BE INSTALLED WITH FULL TILE FROM TRANSITION AT DOOR AND FULL TILE FROM WALL PERPENDICULAR TO DOOR, U.N.O.
11. COORDINATE THE INSTALLATION OF WALL BASE WITH ANY MILLWORK. DELETE BASE WHERE BUILT-IN CABINETS ARE INDICATED.

SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
SN.01	LOCKABLE TOP DRAWER. CONFIRM DIMENSIONS WITH CLIENT.
SN.02	METAL SIGNAGE BY OTHERS.
SN.03	RELOCATED FIRE ALARM.
SN.04	ARTWORK IMAGERY BY OTHERS.

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OFFICE RENOVATION

RIVERSIDE COUNTY FLOOD CONTROL DISTRICT

1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

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PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/2026
2	BID ADDENDUM #02	04/17/2026

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — JOHN JAMES FARRELL SMITH — C32284 — Exp 08/31/27 — Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

ENLARGED PLANS AND ELEVATIONS

SHEET NUMBER:

A5-1.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
25811	IG/AD/TT	JF	12/22/25

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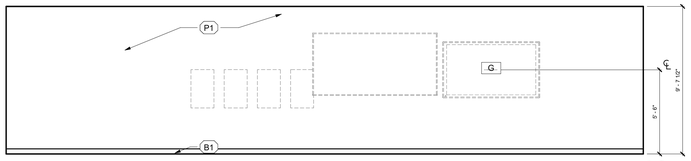
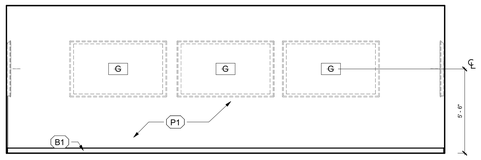
1/8" = 1'

0 8 16 24



3C

1/4" = 1'-0"



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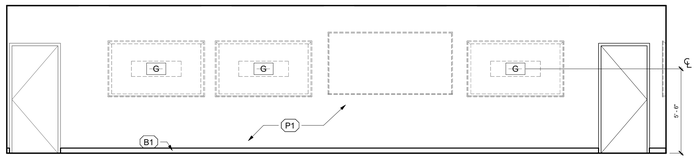
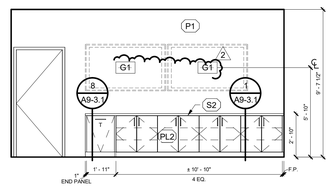
1/4" = 1'-0"



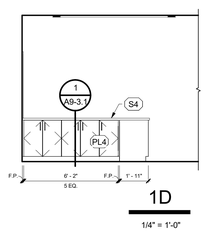
3A

1/4" = 1'-0"

E.O.C. 221 | 3 | 1/4" = 1'-0"



CONFERENCE 219 | 2 | 1/4" = 1'-0"



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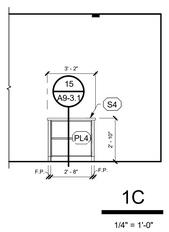
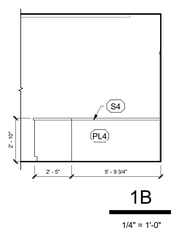
1/4" = 1'-0"



1C

1/4" = 1'-0"



1B

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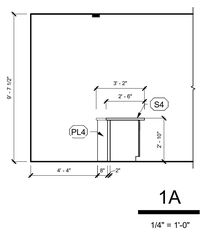
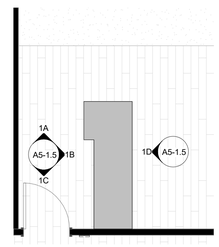


1A

1/4" = 1'-0"



FILE ROOM 223 ENLARGED PLAN AND ELEV | 1 | 1/4" = 1'-0"

LEGEND

- INSTALLATION DIRECTION
- X1 — FINISH TAG - WALLS, FLOORS, BASE, MILLWORK SEE FINISH SCHEDULE ON A6-1.1
- MILLWORK TAG
  - T1 — FINISH - TOP SURFACE
  - F1 — FINISH - FACE SURFACE
- FLOOR FINISH 1
- FLOOR FINISH 2
- FLOOR MATERIAL TRANSITION, SEE 1 / A9-2.1 & 5 / A9-2.1 WHERE OCCURS.

GENERAL NOTES

1. PRODUCTS SCHEDULED ARE TO ESTABLISH THE BASES OF DESIGN. SUBSTITUTION OF EQUAL OR BETTER PRODUCTS WILL BE CONSIDERED IN ACCORDANCE WITH THE PROVISIONS IN THE PROJECT SPECIFICATIONS.
2. FIELD MEASURE FOR ALL GLAZING AND MILLWORK CONDITIONS PRIOR TO MANUFACTURING.
3. PROVIDE TEMPORARY PROTECTION FOR ALL INSTALLED FINISHES AS WORK PROGRESSES.
4. INSTALL WALL FINISH FOR THE FULL HEIGHT OF THE PARTITION WITHOUT BASE. THERE SHALL BE NO UNFINISHED GAPS AT THE BASE OF GYPSUM BOARD
5. ALL EXISTING WALLS TO BE PAINTED, U.N.O.
6. ALL METAL ACCESS DOORS SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING FINISH.
7. PREPARE ALL FLOORS TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION REQUIREMENTS.
8. PRIOR TO INSTALLATION OF FLOORING, SUBMIT WRITTEN CERTIFICATION BY FLOORING MANUFACTURER AND ADHESIVE MANUFACTURER THAT CONDITION OF SUB-FLOOR IS ACCEPTABLE. CONTRACTOR TO COMPLETE MOISTURE TESTING PER PER ASTM F-710, ASTM-F 2170-11 AND ASTM F-1869-10 RECOMMENDATIONS AND SUBMIT TO ARCHITECT FOR REVIEW. OBTAIN INSTRUCTIONS IF TEST RESULTS ARE NOT WITHIN LIMITS RECOMMENDED BY FLOORING MATERIALS MANUFACTURER.
9. PROVIDE ALLOWANCE TO FLOAT FLOOR WHERE NECESSARY TO ACHIEVE TOLERANCE OF 1/4" MAX. IN 10'-0" SPAN.
10. ALL CERAMIC, PORCELAIN, AND VCT TO BE INSTALLED WITH FULL TILE FROM TRANSITION AT DOOR AND FULL TILE FROM WALL PERPENDICULAR TO DOOR, U.N.O.
11. COORDINATE THE INSTALLATION OF WALL BASE WITH ANY MILLWORK. DELETE BASE WHERE BUILT-IN CABINETS ARE INDICATED.

SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
SN.01	BOBRICK PRIVADA CUBICLES. EXTENDED HEIGHT OPTION. CONCEALED FASTENERS, HARDWARE, AND LEVER LATCH. HPL LAMINATE TBD. INCLUDE ALL HARDWARE WITH SELF-CLOSING DOORS.
SN.02	MIRROR GLASS CHANNEL SET: PENCIL POLISH EDGES
SN.03	TROPHY GLASS CASE WITH ADJUSTABLE GLASS SHEVLING AND GLASS SLIDING DOORS.
SN.04	WALL TILE STARTING POINT TO BE AT CEILING HEIGHT.

WESTGROUP DESIGNS
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Irvine | California | 92612
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OFFICE RENOVATION

RIVERSIDE COUNTY FLOOD CONTROL DISTRICT

1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

REVISIONS:

2	BID ADDENDUM #02	04/17/2026

REGISTRATION/SIGNATURE:

JOHN JAMES FORSYTH
C32284
EXP. 08/31/27
Renewal Date
LICENSED ARCHITECT
STATE OF CALIFORNIA

SHEET TITLE:

ENLARGED PLANS AND ELEVATIONS

SHEET NUMBER:

A5-1.5

WD PROJ. #	DRAWN BY:	CHECKED	DATE
25811	IG/AD/TT	JF	12/22/25

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1/8" = 1'

0 8 16 24

FINISH SCHEDULE

TAG	ITEM	MANUFACTURER	SPEC	SIZE	COLOR	INSTALLATION	NOTES	CONTACT
B1	RUBBER BASE	TARKETT	DURA-COVER RUBBER (TYPE TP)	4" H	20 CHARCOAL WG		5	GLENNA EWART <Glenna.Ewart@tarkett.com>
B2	TILE BASE	ARIZONA TILE	TIVOLI STOCKED TRIM SURFACE BULLNOSE	3 X 12	GRIGIO			RACHEL NAMMACK <rnammack@arizonatile.com>
B3	TILE BASE	ARIZONA TILE	TIVOLI STOCKED TRIM SURFACE BULLNOSE	3 X 12	NERO			RACHEL NAMMACK <rnammack@arizonatile.com>
B4	SHULTER BASE	SCHLUTER	DILEX-HKU		BRUSHED STAINLESS STEEL			PAUL LEDERMAN <plederman@schluter.com>
C1	CARPET TILE	MILLIKEN	COLLECTIVE MIND - UNION	25CM X 1CM	UNN213-13 CONNECT	STAGGERED		NICOLE HOUGH <Nicole.Hough@Milliken.com>
C2	CARPET TILE	MILLIKEN	COLLECTIVE MIND - ENLIGHTEN	25CM X 1CM	ELN213-13 CONNECT	STAGGERED		NICOLE HOUGH <Nicole.Hough@Milliken.com>
LVT1	RESILIENT FLOORING	MILLIKEN	THE MAGIC HOUR - HORIZON	25CM X 1.5CM	HZN124-208 EMPYREAN	STAGGERED		NICOLE HOUGH <Nicole.Hough@Milliken.com>
LVT2	RESILIENT FLOORING	PATCRAFT	1716 PLANAR	24" X 24"	00555 GRAY PLANAR - V2	BRICK		SUE EWING <sue.ewing@patcraft.com>
P1	FIELD PAINT	SHERWIN WILLIAMS	SW 7005		PURE WHITE		1, 2	
P2	ACCENT PAINT	SHERWIN WILLIAMS	SW 7031		MEGA GREIGE		1, 2	
P3	ACCENT PAINT	SHERWIN WILLIAMS					1, 2	
P4	ACCENT PAINT	SHERWIN WILLIAMS	SW 6507		RESOLUTE BLUE		1, 2	
P5	ACCENT PAINT	SHERWIN WILLIAMS	SW 6509		GEORGIAN BAY		1, 2	
P6	ACCENT PAINT	BENJAMIN MOORE	2028-40		PEAR GREEN		1, 2	
PL1	PLASTIC LAMINATE	WILSONART	D427-60	4 X 8 SHEETS	LINEN MATTE FINISH			NANCY STUCKI <stuckin@wilsonart.com >
PL2	PLASTIC LAMINATE	WILSONART	FRENCH PEAR	4 X 8 SHEETS	8220-38 FINE VELVET FINISH			NANCY STUCKI <stuckin@wilsonart.com >
PL3	PLASTIC LAMINATE	ARBORITE	W2008-AW	4 X 8 SHEETS	SILVERED ARTISAN WALNUT			MONICA RUIZ <Monica.Ruiz@arborite.com>
PL4	PLASTIC LAMINATE	WILSONART	D504-60	4 X 8 SHEETS	FOSSIL SHALE MATTE FINISH			NANCY STUCKI <stuckin@wilsonart.com >
PL5	PLASTIC LAMINATE	WILSONART	D506-60	4 X 8 SHEETS	SILVER MIST MATTE FINISH			NANCY STUCKI <stuckin@wilsonart.com >
R1	FLOOR RUG	STARK	T01003315	8' X 12'	COSI LAPIS		13	CARISSA DINTEMANN <cdintemann@starkcarpet.com>
R2	FLOOR RUG	STARK	T01003315	11' DIA.	COSI LAPIS		13	CARISSA DINTEMANN <cdintemann@starkcarpet.com>
S1	QUARTZ	ARIZONA TILE	DELLA TERRA QUARTZ		COTTON			RACHEL NAMMACK <rnammack@arizonatile.com>
S2	QUARTZ	ARIZONA TILE	DELLA TERRA QUARTZ		MAXIM			RACHEL NAMMACK <rnammack@arizonatile.com>
S3	QUARTZ	ARIZONA TILE	DELLA TERRA QUARTZ		CONCRETE GREY			RACHEL NAMMACK <rnammack@arizonatile.com>
S4	QUARTZ	DAL TILE	ON QUARTZ SURFACES		WHITESASAND NQ97			MIRA CLUTTER <mira.clutter@daltile.com>
SF1	WINDOW FILM	3M WINDOW FILM	PRESTIGE SERIES		PRESTIGE 50			MELISSA VEGA <melissa@metwest.com>
T1	PORCELAIN FLOOR TILE	ARIZONA TILE	TIVOLI	18 X 36	NERO			RACHEL NAMMACK <rnammack@arizonatile.com>
T2	PORCELAIN FLOOR TILE	ARIZONA TILE	TIVOLI	18 X 36	GRIGIO			RACHEL NAMMACK <rnammack@arizonatile.com>
T3	PORCELAIN WALL TILE	CROSSVILLE	SHADES 2.0	12 X 24	FROST SHD41 SEMI-POLISHED			MONICA FARLEY <mfarley@crossvilleinc.com>
T4	PORECELAIN FLOOR TILE	CROSSVILLE	SHADES 2.0	12 X 24	SHD45 CLAY UNPOLISHED			MONICA FARLEY <mfarley@crossvilleinc.com>
UPH1	UPHOLSTERY	MOMENTUM	JOT UPH		BLUE SPECK			LETICIA CASTANEDA <lcastaneda@momtex.com>
UPH2	UPHOLSTERY	CF STINSON	OGI 35		PENTA			AMY TAYLOR <ataylor@cfstinson.com>
WC1	DIGITAL IMAGE	MDC						
WC2	DIGITAL IMAGE	MDC						
WC3	DIGITAL IMAGE	MDC						
WC4	DIGITAL MURAL	MDC						
WC5	DIGITAL IMAGE	MDC						
WOMT	WALK-OFF MAT	MILLIKEN	CUTX/STIPPLE	50CM X 50CM	STX235 - 27 GREY	MONOLITHIC		NICOLE HOUGH <Nicole.Hough@Milliken.com>
WS1	LINEAR WOOD SLAT	CPS GARTEN CORP	ACU-TECH PANELS	21" X 93"	WALNUT LAMINATE WITH BLACK FELT BACKING			NANCY STUCKI <stuckin@wilsonart.com >

2 WOMT

FINISH SCHEDULE NOTES

1. PRIOR TO FABRICATION PROVIDE DRAW DOWN FOR ARCHITECTS REVIEW AND APPROVAL.
2. PROVIDE 2 COATS, EGGSHELL FINISH.
3. AT CEILINGS AND SOFFITS, PROVIDE 2 COATS, FLAT FINISH.
4. GROUT JOINT TO BE 1/8", BASIS OF DESIGN: CUSTOM BUILDING PRODUCTS PRISM ULTIMATE PERFORMACE GROUT, OR EQUAL.
5. TIGHTLOCK BASE AT CARPET, COVED BASE AT RESILIENT FLOORING.
6. INSTALL AT ALL EXPOSED SURFACES.
7. MITER ALL EXTERIOR CORNERS.
8. PROVIDE MANUFACTURER'S STANDARD COLOR-MATCHED CAULK AT ALL BUTT-JOINT SEAMS.
9. ALL PLASTIC LAMINATE SUBSTRATES TO CONSIST OF MICRO DENSITY FABERBOARD.
10. PROVIDE DARK PRIMER IN LEIU OF LIGHT PRIMER.
11. PROVIDE IN ROLLS.
12. PRIOR TO INSTALL, CONFIRM INSTALLATION PATTERN WITH ARCHITECT.
13. CONTACT MANUFACTURER FOR RUG SPECIFICATION.

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OFFICE RENOVATION

RIVERSIDE COUNTY FLOOD CONTROL DISTRICT

1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/2026
2	BID ADDENDUM #02	04/17/2026

REGISTRATION/SIGNATURE:

JOSHUA JAMES SMITH
C32284
Exp. 08/31/27
Renewal Date
LICENSED ARCHITECT
STATE OF CALIFORNIA

SHEET TITLE:

FINISH SCHEDULE

SHEET NUMBER:

A6-1.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
25811	IG/AD/TT	JF	12/22/25

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HARDWARE GROUPS

NOTE: SEE DOOR NOTES AND DOOR CODE COMPLIANCE NOTES FOR ADDITIONAL INFORMATION.

TYPICAL INTERIOR DOOR:
1 3/4" THK, SOLID CORE, PLAIN SLICE WHITE OAK VENEER, STAIN GRADE.
REFER TO FINISH SCHEDULE FOR DOOR FINISH

TYPICAL FRAME:
WESTERN INTEGRATED ALUMINUM FRAME. REFER TO FINISH SCHEDULE FOR FRAME FINISH.

TYPICAL HARDWARE:
SCHLAGE MORTISE "ND" SERIES, SPARTA LEVER LATCHSET AND LOCKSET.
REFER TO HARDWARE GROUP.

HARDWARE FINISH:
630 SATIN STAINLESS STEEL

01 - PASSAGE LATCHSET
LATCHBOLT RETRACTED BY LEVER FROM EITHER SIDE AT ALL TIMES.

QTY.	ITEM
3 EA.	BUTT HINGE
1 EA.	PASSAGE LATCHSET
1 EA.	SURFACE CLOSER
1 EA.	WALL STOP
3 EA.	DOOR SILENCER

02 - OFFICE LOCKSET
LATCHBOLT RETRACTED BY LEVER FROM EITHER SIDE UNLESS SECURED WITH KEY FROM EXTERIOR OR INTERIOR THUMBTURN.

QTY.	ITEM
3 EA.	BUTT HINGE
1 EA.	OFFICE LOCKSET
1 EA.	SURFACE CLOSER
1 EA.	INTERCHANGEABLE CORE CYLINDER
1 EA.	WALL STOP
3 EA.	DOOR SILENCER
1 SET	SOUND SEALS

03 - STOREROOM LOCKSET
LATCHBOLT RETRACTED BY KEY FROM OUTSIDE OR LEVER FROM INSIDE. OUTSIDE LEVER IS ALWAYS SECURE.

QTY.	ITEM
3 EA.	BUTT HINGE
1 EA.	STOREROOM LOCKSET
1 EA.	INTERCHANGEABLE CORE CYLINDER
1 EA.	SURFACE CLOSER
1 EA.	WALL STOP
3 EA.	DOOR SILENCER

04 - ELECTRICALLY LOCKED (FAIL SAFE)
OUTSIDE LEVER CONTINUOUSLY LOCKED BY POWER. LATCHBOLT RETRACTED BY KEY CARD OUTSIDE OR LEVER INSIDE. POWER FAILURE ALLOWS OUTSIDE LEVER TO RETRACT LATCHBOLT.

QTY.	ITEM
2 EA.	BUTT HINGE
1 EA.	ELECTRIC HINGE (OR ELECTRIC STRIKE)
1 EA.	ELECTRONIC STOREROOM LOCKSET
1 EA.	POWER SUPPLY
1 EA.	DOOR CONTACT SENSOR
1 EA.	INTERCHANGEABLE CORE CYLINDER
1 EA.	SURFACE CLOSER
1 EA.	WALL STOP
3 EA.	DOOR SILENCER
1 EA.	PANIC HARDWARE (AS SCHEDULED)

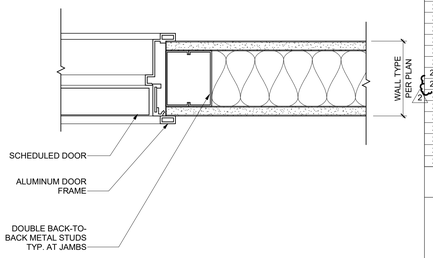
NOTE: COORDINATE CARD READER AND WIRING WITH ACCESS CONTROL SYSTEM AND TENANTS SECURITY VENDOR.

05 - RESTROOM ACCESS
UNRESTRICTED ACCESS IN AND OUT OF RESTROOM.

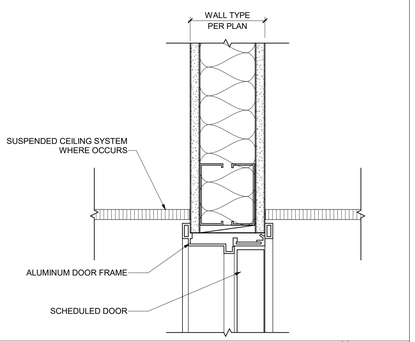
QTY.	ITEM
3 EA.	BUTT HINGE
1 EA.	PUSH PLATE
1 EA.	PULL PLATE
1 EA.	SURFACE CLOSER
1 EA.	WALL STOP
3 EA.	DOOR SILENCER
1 EA.	STEPNPULL FOOT PULL

06 - ELECTRICALLY LOCKED FRAMELESS GLASS PIVOT DOORS
CONTINUOUSLY LOCKED BY POWER. HARDWARE RELEASED BY KEY CARD ON OUTSIDE OR REMOTE BUTTON RELEASE OR INTERIOR REX. POWER FAILURE ALLOWS FREE EGRESS.

QTY.	ITEM
1 EA.	FLOOR CLOSER
1 EA.	TOP AND BOTTOM RAILS
2 EA.	VERTICAL PULL BARS (ELMES DOOR PULLS G52-01-023-L600)
1 EA.	POWER SUPPLY
1 EA.	CARD READER (BY TENANT)
1 EA.	ELECTRIC STRIKE
1 EA.	REQUEST TO EXIT HARDWARE



DOOR JAMB - ALUM. FRAME — 2 — 3" = 1'-0"

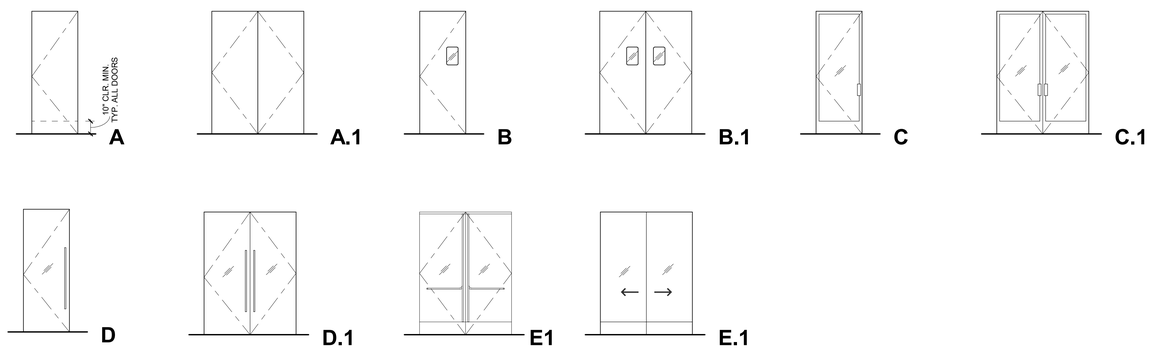


DOOR HEAD - ALUM. FRAME — 3 — 3" = 1'-0"

DOOR SCHEDULE

ID	ROOM	TYPE	HW GROUP	DOOR WIDTH	DOOR HEIGHT	DOOR THK	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FRAME JAMB	FRAME HEAD	FRAME SILL	RATING (MIN.)	PANIC HW	NOTES
Bldg 1A																
Existing																
E-A1	VESTIBULE	E.1	-	6' - 0"	8' - 4"	0' - 1 3/4"	GL	-	AL	ANNO	-	-		-	YES	EXISTING PANIC HARDWARE
E-A4	(E) CONF.	F	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		-	NO	
E-A7	(E) CONF.	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		-	NO	
E-A18	LUNCH ROOM	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		-	NO	
E-A19	LUNCH ROOM	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		-	NO	
E-A20	(E) I.T. STORAGE	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		-	NO	
E-A35	Room	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT	AL	PT	-	-		-	YES	EXISTING PANIC HARDWARE, EXISTING CARD READER
E-A38	Room	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT	AL	PT	-	-		-	YES	EXISTING PANIC HARDWARE, EXISTING CARD READER
E-A39	FINANCE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		-	NO	
E-A40	MANAGER OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		-	NO	
E-A43	CORRIDOR 1	C	01	2' - 10"	7' - 0"	0' - 1 3/4"	GL	-	AL	ANNO	-	-		-	NO	
E-A45	CORRIDOR 2	C	01	2' - 10"	7' - 0"	0' - 1 3/4"	GL	-	AL	ANNO	-	-		-	NO	
E-A46	CORRIDOR 2	C	02	2' - 10"	7' - 0"	0' - 1 3/4"	GL	-	AL	ANNO	-	-		-	YES	EXISTING CARD READER
E-A48	Room	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT	AL	PT	-	-		-	YES	EXISTING PANIC HARDWARE, EXISTING CARD READER
E-A49	Room	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT	AL	PT	-	-		-	YES	EXISTING PANIC HARDWARE, EXISTING CARD READER
E-A50	(E) CHIEF OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		-	NO	
E-A51	LUNCH ROOM	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		-	NO	
E-A57	VESTIBULE	E.1	-	8' - 11 13/16"	7' - 6"	0' - 1 3/4"	GL	-	AL	ANNO	-	-		-	YES	EXISTING PANIC HARDWARE
E-A59	CONF.	A	02	2' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		-	NO	
New Construction																
102A	RECEPTION WAITING	D	06	3' - 0"	8' - 0"	0' - 0 3/4"	FL. GL.	GL .C.	FL. GL	GL C.	2/-	1/-		-	NO	HERCULITE DOOR. CARD READER
102B	RECEPTION	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	CARD READER
104	CONF.	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
105	CONF.	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
106	WORKROOM	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
108	OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
109	(E) CHIEF OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
114	SUPERVISOR OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
115A	CONF.	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
116	FINANCE	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	CARD READER
117	(E) CONF.	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
118	(E) CHIEF OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
119B	(E) CONF.	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
122	JAN	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
123	MENS RR	A	05	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
124	WOMENS RR	A	05	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
131	JANITOR	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	CARD READER
132	I.T.	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	CARD READER
133	SECURITY	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	CARD READER, PROVIDE WIDE THROW 180° HINGE
135	MOTHERS	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	ANNO	2/-	1/-		-	NO	
136	STORAGE	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	CARD READER
139	CHIEF OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
143A	(E) CONF.	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
143B	(E) CONF.	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
Bldg 1																
Existing																
E1	CORRIDOR (1-HR)	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	HM	-	AL	PT	-	-		-	YES	EXISTING PANIC HARDWARE, EXISTING CARD READER
E2	SURVEYS/MAPPING/PHOTO	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	HM	-	AL	PT	-	-		-		EXISTING CARD READER
E3	WATERSHED ANALYTICS	A	04	4' - 0"	7' - 0"	0' - 1 3/4"	HM	-	AL	PT	-	-		-		EXISTING CARD READER
E4	AMMONIA TANK STORAGE	A.1	02	4' - 0"	7' - 0"	0' - 1 3/4"	HM	PT	AL	PT	-	-		-	NO	
E6	CORRIDOR 2	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	HM	-	AL	PT	-	-		-	YES	EXISTING PANIC HARDWARE
E7	LUNCH ROOM	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	HM	-	AL	PT	-	-		-		EXISTING CARD READER
E8	CORRIDOR 1	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	GL	-	AL	PT	-	-		-	YES	EXISTING PANIC HARDWARE
E9	CORRIDOR 1	C	02	2' - 10"	7' - 0"	0' - 1 3/4"	GL	-	AL	ANNO	-	-		-	YES	EXISTING PANIC HARDWARE, EXISTING CARD READER, EXISTING CLOSER
E11	E.O.C.	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.		
E13	EM & GA	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E15	LUNCH ROOM	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		20 MIN.	NO	
E16	FILE ROOM	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		20 MIN.	NO	
E18	CORRIDOR (1-HR)	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E21	CONFERENCE	C	02	3' - 0"	7' - 0"	0' - 1 3/4"	GL	-	AL	ANNO	-	-		-	NO	
E24	PEN WASH	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	AL	PT	-	-		20 MIN.	NO	
E26	TEAM ROOM	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	HM	-	AL	PT	-	-		20 MIN.	YES	WIDE THROW 180° HINGE
E31	TEAM ROOM	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	HM	-	AL	PT	-	-		20 MIN.	YES	WIDE THROW 180° HINGE
E32	EM & GA	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E35	SUPERVISOR OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E36	SUPERVISOR OFFICE	A	02	2' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		-	NO	
E37	OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		-	NO	
E38	OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		-	NO	
E41	TEAM ROOM	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	HM	-	AL	PT	-	-		20 MIN.	YES	WIDE THROW 180° HINGE
E44	CHIEF OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		-	NO	
E45	ADMINISTRATIVE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	WIDE THROW 180° HINGE
E46	CONFERENCE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E47	COPY ROOM	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E50	HR - OPEN OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E53	SURVEYS/MAPPING/PHOTO	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E54	MOTHERS	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E55	WOMENS RR	A	05	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	MOTORIZED PUSH BUTTON OPERATION ON BOTH SIDES OF THE DOOR
E57	JANITOR	A	03	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E58	MENS RR	A	05	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	
E72	STORAGE	A	04	3' - 6"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	-	-		20 MIN.	NO	MODIFY DOOR FOR CARD READER
New Construction																
202B	WAITING	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	
204A	CONFERENCE	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
206	HR - OPEN OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
207	OFFICE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
211	FIRE PANEL	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	CARD READER, PROVIDE WIDE THROW 180° HINGE.
212	ELEC.	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	CARD READER, PROVIDE WIDE THROW 180° HINGE.
218	EM & GA	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
219	CONFERENCE	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	
220	E.O.C. STORAGE	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	CARD READER
221	E.O.C.	A	02	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	YES	
227	STORAGE	A.1	04	6' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	CARD READER
229	PHOTO LAB	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	CARD READER, PROVIDE WIDE THROW 180° HINGE.
230	DEVELOPING	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
233	I.T.	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	CARD READER
234	I.T.	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	CARD READER, PROVIDE WIDE THROW 180° HINGE.
236A	STORAGE	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	CARD READER
236B	STORAGE	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	CARD READER
238	OFFICE	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
239	OFFICE	A	01	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
247	STOR.	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	CARD READER
248	STORAGE	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	CARD READER
251	STORAGE	A	04	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		20 MIN.	NO	CARD READER, PROVIDE WIDE THROW 180° HINGE.
254	REPOGRAPHICS	A	03	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	AL	PT	2/-	1/-		-	NO	
255	CORRIDOR (1-HR)	A.1	04	6' - 0"	7' - 0"	0' - 1 3/4"	HM	PT	AL	PT	2/-	1/-		-	YES	

DOOR TYPES



LEGEND

MATERIAL

WD	SOLID WOOD
WD/GL	WOOD W/ FULL GLASS LITE
AL	ALUMINUM
AL/GL	ALUMINUM FRAMED GLASS
HM	HOLLOW METAL
SST	STAINLESS STEEL
GL	GLASS
FL.GL	FRAMELESS GLASS

FINISH

PT	PAINT*
PL	PLASTIC LAMINATE*
ST	STAIN-GRADE WOOD VENEER**
ANNO	CLEAR ANNODIZED ALUMINUM
FF	FACTORY FINISH*
SS.B	STAINLESS STEEL #4 BRUSHED*
GL.C.	CLEAR VISION GLASS
GL.R.	REFLECTIVE VISION GLASS*

*** CONFIRM COLOR SELECTION WITH ARCHITECT, PROVIDE FINISH SAMPLES FOR REVIEW. PAINT TO MATCH ADJACENT WALLS.**

**** DOOR STAIN TO MATCH EXISTING DOOR, INTERIOR AND EXTERIOR FINISH. PROVIDE FINISH STAIN SAMPLE TO ARCHITECT FOR REVIEW.**

DOOR NOTES

1. THE HARDWARE SCHEDULE IS INTENDED TO COVER ALL DOORS IN THE PROJECT AND ESTABLISH A TYPE AND STANDARD OF QUALITY. FURNISH AND INSTALL A COMPLETE AND OPERATIONAL SYSTEM OF DOOR FINISH HARDWARE ITEMS ENCOMPASSING ALL OPENINGS WITHIN THE PROJECT AREA AS REQUIRED TO MEET CODE AND FUNCTIONAL REQUIREMENTS. THE HARDWARE SPECIFICATION IS PROVIDED AS A BASIS FOR A COMPLETE HARDWARE SUBMITTAL WHICH INDICATES THE QUANTITY, TYPE, NUMBER, MANUFACTURER, AND LOCATION OF EACH ARTICLE OF HARDWARE REQUIRED. HARDWARE LIST SHALL BE SUBMITTED NO LATER THAN 30 DAYS BEFORE THE ORDER DATE NECESSARY TO MEET THE PROJECT SCHEDULE. REVIEW OF THE HARDWARE LIST DOES NOT REPRESENT CERTIFICATION THAT THE LIST IS COMPLETE AND DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING A COMPLETE PROJECT.
2. EXISTING DOORS, CLOSET DOORS, RESTROOM DOORS, ETC. IN THE ONE-HOUR CORRIDOR ARE 20 MINUTE RATED DOORS. ALL HARDWARE IN RATED DOORS MUST MAINTAIN DOOR FIRE RATING AND GASKETING MUST BE PROVIDED.
3. COORDINATE HARDWARE QUANTITIES WITH DOUBLE DOORS WHERE OCCURS AND PROVIDE ADDITIONAL HARDWARE AS NEEDED.
4. DOOR HARDWARE MANUFACTURER AND FINISH TO MATCH BUILDING STANDARDS WHERE APPLICABLE.
5. ALL CORRIDOR DOOR ASSEMBLIES TO HAVE FINISH TO MATCH BUILDING STANDARD.
6. ALL LOCKSETS SHALL BE CODED AND/OR KEYED IN ACCORDANCE WITH OWNER'S REQUIREMENTS. CODES AND/OR KEYS ARE TO BE DELIVERED TO OWNER PROPERLY TESTED AND/OR TAGGED. THE NUMBER OF KEYS TO BE COORDINATED WITH OWNER.
7. HARDWARE SUPPLIER SHALL PROVIDE GRANDMASTER KEY, MASTER KEY, KEY-ALIKE AND/OR KEY-DIFFERENT ALL LOCKS IN ACCORDANCE WITH KEYING SCHEDULE AS PROVIDE BY OWNER.
8. ALL HARDWARE SHALL BE OF LEVER TYPE TO COMPLY WITH ACCESSIBILITY REQUIREMENTS. REPLACE ALL DOOR HARDWARE ITEMS NOT IN COMPLIANCE WITH APPLICABLE ACCESSIBILITY REQUIREMENTS TO THE SATISFACTION OF THE BUILDING AUTHORITY.
9. DOOR OPENINGS IN PARTITIONS NOT DIMENSIONED SHALL BE 4" FROM ADJOINING PARTITION.
10. VERIFY AND COORDINATE THE THICKNESS OF FLOOR FINISH WITH UNDERCUT DIMENSION AT DOOR.
11. EACH ARTICLE OF HARDWARE SHALL BE INDIVIDUALLY PACKAGED IN ITS ORIGINAL MANUFACTURER'S CONTAINER AND PROPERLY LABELED IN CONFORMANCE WITH THE APPROVED HARDWARE LIST.
12. FURNISH (3) BUTT HINGES FOR DOORS UP TO 7'-0" HIGH AND (1) HINGE FOR EACH ADDITIONAL 2'-6".
13. PROVIDE STANDARD STRIKE PLATE WITH EXTENDED LIP WHERE REQUIRED TO PROTECT TRIM FROM BEING MARRED OR DAMAGED BY THE LATCH BOLT.
14. PROVIDE DUST COVERS AT ALL STRIKE PLATES.
15. DOORS SHALL BE INSTALLED IN FRAME WITH 1/8" MAX. TOLERANCE AT HEAD HINGES, AND STRIKE/JAMB.
16. ALL EXTERIOR AND RESTROOM DOORS ARE TO BE SELF-CLOSING. PROVIDE GASKETING AND DOOR SWEEP AT ALL EXTERIOR DOORS.
17. ALL DOOR LOCKSETS/LATCHSETS TO BE MORTISE STYLE WITH MODERN LEVER, U.N.O. ALL LEVER ACCESS FROM THE INTERIOR SHALL ALWAYS BE FREE TO PROVIDE IMMEDIATE EGRESS AND SHALL UNLATCH WITH ONE OPERATION.
18. ALL NEW HARDWARE ON DOORS TO HAVE SIMILAR FINISHES U.N.O., ALL FASTENERS SHALL MATCH THE HARDWARE MATERIAL AND FINISH.
19. DOOR WOOD VENEER QUALITY, SHEEN, AND STAIN FINISH ARE TO BE CONFIRMED BY THE ARCHITECT.

DOOR CODE COMPLIANCE NOTES

1. ALL RATED DOORS TO BE POSITIVE LATCHING AND SELF-CLOSING.
2. FIRE DOOR ASSEMBLIES SHALL BE LABELED IN ACCORDANCE WITH THE CBC.
3. FIRE DOORS SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY ARE DONE.
4. ALL FIRE RATED ASSEMBLIES ARE TO BE PROVIDED WITH AN APPROVED SMOKE GASKET. INSTALL TO PROVIDE A CONTINUOUS SEAL WHERE THE DOOR MEETS THE STOP ON THE HEAD AND BOTH JAMBS.
5. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
6. FIRE RATED DOOR FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO INSPECTING AUTHORITIES.
7. INSTALL FLOOR STOPS IN LOCATION NOT TO CAUSE TRIPPING HAZARD IN PATH OF TRAVEL, 4" MAX FROM WALL.
8. DOOR AND GATE OPENING FORCE: THE FORCE REQUIRED FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE A MAXIMUM 5 LBS. FOR HINGED DOORS, SLIDING AND FOLDING DOORS.
9. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPEARABLE PARTS SHALL BE 5 LBS. MAXIMUM.
10. THE BOTTOM 10" OF ALL DOORS TO HAVE SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
11. DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
12. FLOOR OR GROUND SURFACE WITHIN THE REQUIRED MANEUVERING CLEARANCES PER DETAIL **7/G-4.1**, SHALL BE LEVEL. SLOPE OF THE DOO MANEUVERING CLEARANCE IS 2.08% MAX IN ALL DIRECTIONS.
13. ALL FIRE RATED DOORS SHALL BE EQUIPED WITH DOOR CLOSER AND SELF-LATCHING FUNCTION.

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OFFICE RENOVATION
RIVERSIDE COUNTY FLOOD CONTROL DISTRICT
1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/2026
2	BID ADDENDUM #02	04/17/2026

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — JOSHUA JAMES SMITH — C32284 — Exp. 08/31/27 — Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

DOOR SCHEDULE AND DETAILS

SHEET NUMBER:

A6-2.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
25811	IG/AD/TT	JF	12/22/25

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1/8" = 1'
0 8 16 24

GENERAL NOTES

1. FOR LINE TYPES, SYMBOLS, AND ABBREVIATIONS, SEE LEGEND ON SHEET M-0.1.
2. ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, CONTROLS, ETC. ARE TO REMAIN UNLESS NOTED OTHERWISE.
3. PRIOR TO BEGINNING OF CONSTRUCTION, CONTRACTOR SHALL MEASURE AND RECORD AIRFLOW VALUES OF SUPPLY AIR DIFFUSERS, RETURN AND EXHAUST GRILLES WITHIN BUILDING.
4. NON-ADA COMPLIANT EXISTING THERMOSTATS TO REMAIN SHALL BE REMOVED AND REINSTALLED TO COMPLY WITH ADA REQUIREMENTS.

DEMOLITION NOTES

1. EXISTING THERMOSTAT TO BE REMOVED AND REINSTALLED DURING THE REMODEL PHASE. SEE REMODEL PLAN FOR NEW LOCATION. CONTROL WIRING TO BE MODIFIED AS NEEDED TO ACCOMMODATE NEW LOCATION.
2. EXISTING TERMINAL UNIT TO BE REMOVED AND REINSTALLED DURING THE REMODEL PHASE. SEE REMODEL PLAN FOR NEW LOCATION. CONTROL WIRING AND HEATING HOT WATER PIPING TO BE MODIFIED AS NEEDED TO ACCOMMODATE NEW LOCATION.
3. EXISTING CEILING EXHAUST FAN TO BE REMOVED AND REINSTALLED DURING THE REMODEL PHASE.

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COUNTY OF RIVERSIDE
FLOOD CONTROL

1995 MARKET STREET
RIVERSIDE, CA 92501

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REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/26
2	BID ADDENDUM #02	04/17/26

REGISTERED PROFESSIONAL ENGINEER
STEVEN M. JOHNSON
No. 33209
MECHANICAL
STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:
MECHANICAL DEMOLITION PLAN - BUILDING 1

SHEET NUMBER:
M-2.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
22854	AD	SJ	04/17/2026

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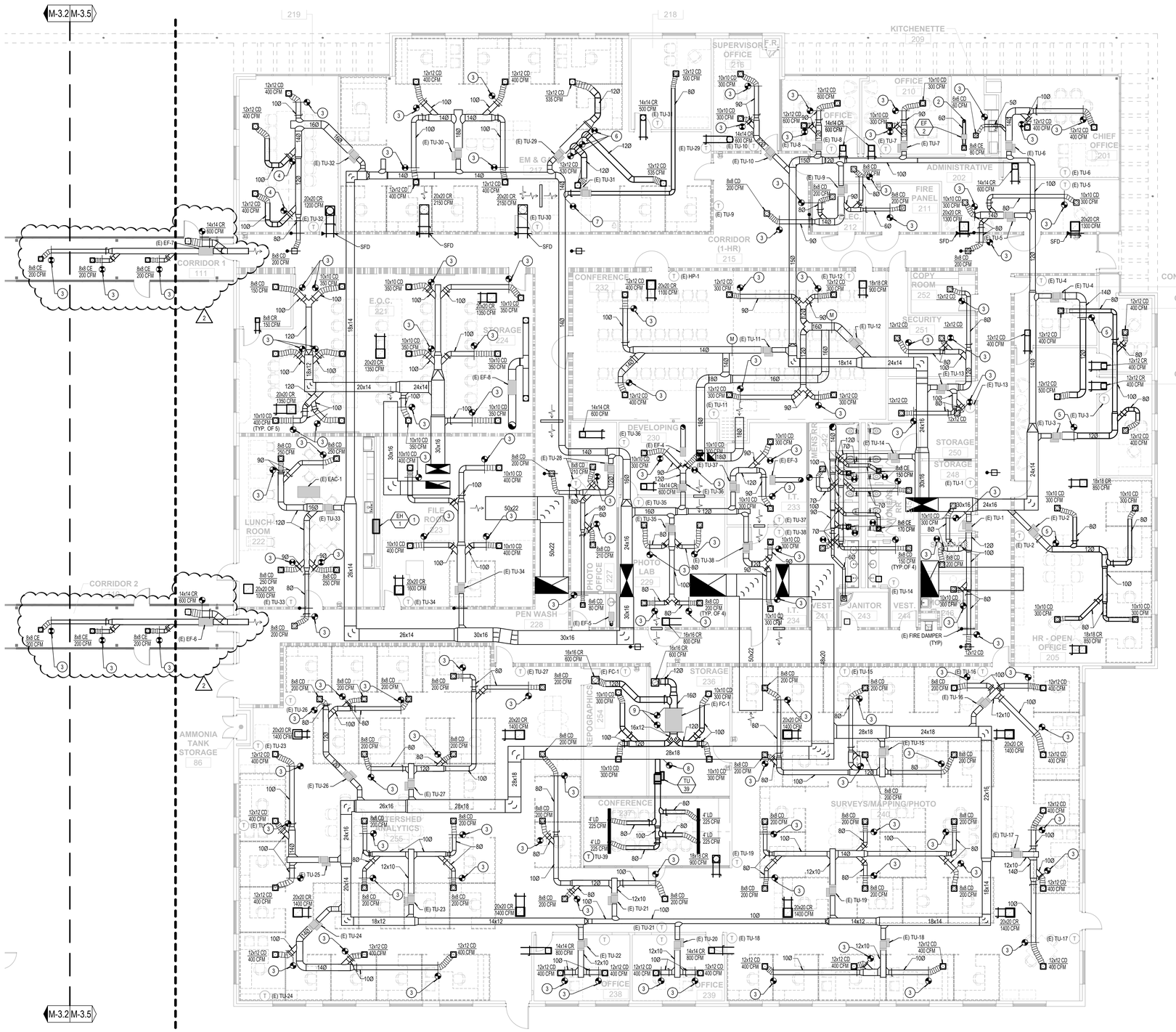
25-139

MECHANICAL DEMOLITION PLAN - BUILDING 1 | SCALE: 1/8" = 1'-0" | 1

R:_PROJECT\2025\25-139 RIVERSIDE FLOOD CONTROL ADMIN RENOVATION_CAD\25-139 M-DEMOBLDG1B - 2026-04-16 - LOGAN CULLEN



GENERAL NOTES

1. FOR LINE TYPES, SYMBOLS, AND ABBREVIATIONS, SEE LEGEND ON SHEET M-0.1.
2. ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, CONTROLS, ETC. ARE TO REMAIN UNLESS NOTED OTHERWISE.
3. PRIOR TO BEGINNING OF CONSTRUCTION, CONTRACTOR SHALL MEASURE AND RECORD AIRFLOW VALUES OF SUPPLY AIR DIFFUSERS, RETURN AND EXHAUST GRILLES WITHIN SCOPE OF WORK.
4. SPIN-IN OR TAP TYPE DUCT CONNECTIONS SHALL BE PROVIDED WITH AN EXTRACTOR.
5. THERMOSTATS SHALL NOT BE MOUNTED IN DIRECT LINE OF ANY SUPPLY DIFFUSER OR NEAR ANY HEAT REJECTION EQUIPMENT.
6. COORDINATE FINAL LOCATION OF THERMOSTATS PRIOR TO INSTALLING WITH FURNITURE/EQUIPMENT LOCATIONS.
7. DUCT DIMENSIONS ARE INSIDE CLEAR, ADD AN ADDITIONAL 2" MINIMUM FOR R-4.2 DUCT INSULATION. SIZES MAY VARY PER MANUFACTURER.
8. CONTRACTOR SHALL PROVIDE NEW LOW-VOLTAGE WIRING FOR RELOCATED THERMOSTATS AND CONNECT TO ASSOCIATED MECHANICAL EQUIPMENT.

CONSTRUCTION NOTES

1. CONNECT 7"ø EXHAUST DUCT TO EXHAUST HOOD (EH-1) AND ROUTE UP THRU ROOF TO APPROVED EXHAUST VENT. VERIFY DUCT SIZE WITH EXHAUST HOOD REQUIREMENTS PRIOR TO BEGINNING CONSTRUCTION.
2. (N) 6"ø EXHAUST DUCT TO CONNECT TO (E) EXHAUST DUCT THROUGH ROOF CONNECTION.
3. CONNECT (N) DIFFUSER TO (E) DUCT IN CEILING. FLEX DUCT TO BE TO FULL SIZE OF OPENING. FIELD VERIFY EXACT SIZE AND LOCATION.
4. CONNECT (N) 8"ø SUPPLY DUCT TO (E) 8"ø DUCT. FIELD VERIFY EXACT SIZE AND LOCATION.
5. CONNECT (N) 12"ø SUPPLY DUCT TO (E) 12"ø DUCT. FIELD VERIFY EXACT SIZE AND LOCATION.
6. CONNECT (N) 12ø SUPPLY DUCT TO (E) 18"ø DUCT. FIELD VERIFY EXACT SIZE AND LOCATION.
7. CONNECT (N) 6"ø SUPPLY DUCT TO (E) VAV MAIN SUPPLY DUCT. FIELD VERIFY EXACT SIZE AND LOCATION.
8. CONNECT (N) 12"ø SUPPLY DUCT TO (E) VAV MAIN SUPPLY DUCT. FIELD VERIFY EXACT SIZE AND LOCATION.
9. CONNECT (N) 16"x12" SUPPLY AND 16"ø RETURN DUCT TO FULL SIZE OF HEADER.

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FLOOD CONTROL

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REVISIONS:

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REGISTERED PROFESSIONAL ENGINEER
SYLVIA M. JOHNSON
No. 33209
MECHANICAL
STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:
MECHANICAL REMODEL PLAN - BUILDING 1

SHEET NUMBER:
M-3.5

WD PROJ. #	DRAWN BY:	CHECKED	DATE
22854	AD	SJ	04/17/2026

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25-139

MECHANICAL REMODEL PLAN - BUILDING 1 | SCALE: 1/8" = 1'-0" | 1

R:_PROJECTS\2025\25-139 RIVERSIDE FLOOD CONTROL ADMIN RENOVATION, CA\25-139 M-BLDG 1B - 2026-04-16 - LOGAN CULLEN

GARBAGE DISPOSAL SCHEDULE

SYMBOL	MANUFACTURER	MODEL	CONSTRUCTION	MOTOR	RPM	ELECTRICAL	WEIGHT	REMARKS /ACCESSORIES
GD 1	IN-SINK ERATOR	BADGER 5	GALVANIZED STEEL	1/2 HP	1,725	120V-1Ø-60~ 6.9 AMPS	15 LBS	PROVIDE WITH POWER CORD, QUIET DURA-DRIVE INDUCTION MOTOR. INTERLOCK WITH WALL SWITCH. SEE PLANS FOR QUANTITY.

FIXTURE SCHEDULE

SYMBOL	SPECIFICATION	CONNECTION SIZE: WASTE	TRAP	VENT	CW	HW	ELEC.
FD 1	FLOOR DRAIN: JOSAM 30002-5A FLOOR DRAIN W/LOC CAST IRON BODY W/CLAMP RING, FLANGE, ADJUSTABLE NIKALOY STRAINER, POLISHED BRONZE GRATE. PROVIDED WITH TRAP PRIMER	2"	2"	1-1/2"	-	-	-
L 1 (2)	LAVATORY: AMERICAN STANDARD "AQUALYN" 0476.028, WHITE VITREOUS CHINA, SELF RIMMING COUNTERTOP MOUNT W/ FAUCET HOLES ON 4" CENTERS. 0.5 GPM SLOAN EBF-415 FAUCET W/ ASSE 1070 APPROVED TEMPERATURE MIXING VALVE SET TO 120°, GRID STRAINER DRAIN W/ 1-1/2" CAST BRASS P-TRAP WITH CHROME FINISH, ANGLE STOPS W/ RIGID RISER. ON ADA COMPLIANT PROVIDE TRUEBRO LAV GUARD PER CBC 11B-606.5. FAUCET TO BE POWERED BY TRANSFORMER (PART 0345370PK) WITH HARNESS ADAPTOR (PART 0367098). ESD-410 SOAP DISPENSER W/ AC ADAPTOR (PART 0346090).NOTE: HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.	2"	1-1/2"	1-1/2"	1/2"	1/2"	120V
S 1	ONE COMPARTMENT SINK: ELKAY LUSTERTONE LRAD1918SS ADA STAINLESS STEEL SINGLE BOWL SINK, 18 GA TYPE 304-SELF RIM, FAUCET HOLES ON 4" CENTERS. CHICAGO 1100-GN8AE35-317AB GOOSENECK MANUAL FAUCET, DECK MOUNTED 8" FIXED CENTERS, 4" WRIST BLADE HANDLES W/ 1.5 GPM AERATOR, PROVIDE ASSE 1070 APPROVED TMV SET TO 110°. CHROME BASKET STRAINERS W/ 1-1/2" CAST BRASS L.A. PATTERN P-TRAP WITH CHROME FINISH, ANGLE STOPS W/ RIGID RISER.	2"	1-1/2"	1-1/2"	1/2"	1/2"	-
S 2	ONE COMPARTMENT SINK: ELKAY LUSTERTONE LRAD171665PD ADA STAINLESS STEEL SINGLE BOWL SINK, 18 GA TYPE 304-SELF RIM, FAUCET HOLES ON 4" CENTERS. CHICAGO 1100-GN8AE35-317AB GOOSENECK MANUAL FAUCET, DECK MOUNTED 8" FIXED CENTERS, 4" WRIST BLADE HANDLES W/ 1.5 GPM AERATOR, PROVIDE ASSE 1070 APPROVED TMV SET TO 110°. CHROME BASKET STRAINERS W/ 1-1/2" CAST BRASS L.A. PATTERN P-TRAP WITH CHROME FINISH, ANGLE STOPS W/ RIGID RISER.	2"	1-1/2"	1-1/2"	1/2"	1/2"	-
TP 1	TRAP PRIMER: MIFAB MODEL "M-500" 1/2" INLET AND 1/2" OUTLET WITH OPTIONAL DISTRIBUTION UNIT, MAY BE LOCATED AS INDICATED ON DRAWINGS OR AS REQUIRED BY CODE. UPC LISTED. PROVIDED WITH A 12"X 12" ACCESS PANEL OR LARGER DEPENDING ON THE REQUIRED ACCESS TO THE EQUIPMENT AND SHUT-OFF VALVE. (CONTRACTOR TO VERIFY).	-	-	-	1/2"	-	-
U 1	URINAL: AMERICAN STANDARD "FLOWISE" 6150.100, WATERLESS URINAL, ADA 17" HIGH RIM, WHITE VITREOUS CHINA, JOSAM 17560-UR URINAL CARRIER FLOOR MOUNTED BEARING PLATE TYPE. 3/4" CW TO BE CAPPED IN WALL BEHIND URINAL.	2"	2"	1-1/2"	3/4"	-	-
U 2	URINAL: AMERICAN STANDARD "FLOWISE" 6150.100, WATERLESS URINAL, STANDARD 24" HIGH RIM, WHITE VITREOUS CHINA, JOSAM 17560-UR URINAL CARRIER FLOOR MOUNTED BEARING PLATE TYPE. 3/4" CW TO BE CAPPED IN WALL BEHIND URINAL.	2"	2"	1-1/2"	3/4"	-	-
WC 1	WATERCLOSET: AMERICAN STANDARD "AFWALL" 2257.001, ADA 17" HIGH RIM, (1.28 GPF), WALL MOUNTED, ELONGATED BOWL, 1-1/2" TOP SPUD, WHITE VITREOUS CHINA. SLOAN ROYAL 111-1.28 (1.28 GPF) FLUSH VALVE, OLSONITE PLASTIC SEAT MODEL 95 COMFORTCURVE, ELONGATED, OPEN FRONT, STAIN & CHEMICAL RESISTANT. JAY R SMITH WATER CLOSET SUPPORT 0210.	3"	INT.	2"	1"	-	-
WC 2	WATERCLOSET: AMERICAN STANDARD "AFWALL" 2257.001, STANDARD 15" HIGH RIM, (1.28 GPF), WALL MOUNTED, ELONGATED BOWL, 1-1/2" TOP SPUD, WHITE VITREOUS CHINA. SLOAN ROYAL 111-1.28 (1.28 GPF) FLUSH VALVE, OLSONITE PLASTIC SEAT MODEL 95 COMFORTCURVE, ELONGATED, OPEN FRONT, STAIN & CHEMICAL RESISTANT. JAY R. SMITH WATER CLOSET SUPPORT 0210.	3"	INT.	2"	1"	-	-
WHA 1	WATER HAMMER ARRESTOR: MIFAB, INC. MODEL "MWH" (SEE PLANS FOR SIZE), INSTALLED ON ALL QUICK CLOSING VALVES AND ALL VALVES WHICH CLOSE WITH THE FLOW OF FLUID, OR ON HEADERS SERVING MORE THAN ONE FIXTURE. PROVIDED WITH A 12"X 12" ACCESS PANEL.	-	-	-	-	-	-

GENERAL NOTES

1. THE TOTAL INSTALLATION SHALL COMPLY WITH ANY REQUIREMENTS OF THE LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION INCLUDING 2022 CBC (CALIFORNIA BUILDING CODE), 2022 CAL GREEN REQUIREMENTS AND 2022 CMC/CPC (CALIFORNIA MECHANICAL AND PLUMBING CODE).
2. VISIT THE SITE PRIOR TO BID AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS UNDER WHICH THEY WILL BE REQUIRED TO WORK. INDICATED DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATE PURPOSES ONLY.
3. CAREFULLY CHECK AND VERIFY DIMENSIONS, SIZES, REQUIRED CLEARANCES AND SHALL ASSUME FULL RESPONSIBILITY FOR THE FITTING OF EQUIPMENT AND MATERIALS HEREIN REQUIRED TO OTHER PARTS OF THE WORK OF OTHER TRADES.
4. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT OFFSETS, BENDS, SPECIAL FITTINGS AND LOCATIONS ARE NOT EXACTLY LOCATED. IN THE PREPARATION OF THESE DOCUMENTS, CERTAIN ASSUMPTIONS ARE MADE REGARDING EXISTING CONDITIONS. SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY OR DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF EXISTING BUILDINGS AND/OR EQUIPMENT. THEREFORE, THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR ANY CHANGES OR ADDITIONAL COSTS INCURRED DUE TO EXISTING CONDITIONS.
5. ITEMS RELATED TO PLUMBING UTILITIES AND/OR OTHER SERVICE(S); MATERIALS, LABOR, PERMITS, FEES, ETC., SHALL BE VERIFIED WITH THE RESPECTIVE SERVING UTILITY COMPANY PRIOR TO SUBMISSION OF A BID. THE ACT OF SUBMITTING A BID SHALL CONSTITUTE FULL RESPONSIBILITY OF THE CONTRACTOR TO INSTALL SERVICE(S) IN COMPLIANCE WITH THE REQUIREMENTS OF THE SERVING UTILITY COMPANY AND THE MECHANICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHARGES LEVIED BY THE SERVING UTILITY COMPANY EXCEPTING THE FIRST BILLING DEPOSIT.
6. COMPLY WITH CONTRACT DOCUMENTS IN LAYING OUT THEIR WORK AND EQUIPMENT. COORDINATE THE WORK OF THIS SECTION WITH THE WORK OF OTHER TRADES AND JOB CONDITIONS.
7. THE INSTALLATION OF ACCESS PANELS OR OTHER INDICATING EQUIPMENT OR SPECIALTIES REQUIRING READING, ADJUSTMENT, INSPECTION, REPAIRS, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.
8. EQUIPMENT AND FIXTURES INSTALLED UNDER THIS CONTRACT SHALL BE HUNG OR ANCHORED IN ACCORDANCE WITH 2022 CPC/CBC.
9. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS.
10. WHERE MATERIAL IS SHOWN ON THE DRAWINGS BUT NOT SPECIFIED, IT SHALL BE OF THE SAME TYPE AND QUALITY AS EXISTING MATERIAL.
11. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE REQUIRED HYDRAULIC CALCULATIONS AND FIRE SPRINKLER HEAD LOCATION IN ACCORDANCE WITH NFPA 13 TO THE LOCAL FIRE DEPARTMENT FOR REVIEW AND APPROVAL OF THE FIRE PROTECTION SYSTEM.
12. TEST SYSTEM(S) IN ACCORDANCE WITH REQUIREMENTS OF THE GOVERNING AUTHORITIES.
13. CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS THE CONTRACTOR SHALL COORDINATE CLEANOUT LOCATIONS WITH EQUIPMENT CABINETS, ETC. AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
14. PAVED AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BY OPERATIONS SHALL BE PATCHED AND REPAIRED. IN ADDITION, RESTORE TO ORIGINAL PLANTED AREAS DAMAGED BY OPERATIONS.
15. CONNECTIONS TO EXISTING SERVICES SHALL BE MADE SUCH THAT INTERRUPTION TIME WILL BE AS SHORT AS POSSIBLE. THE CONTRACTOR SHALL GIVE THE OWNERS REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTIONS AND THE ACTUAL SHUT-DOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNERS REPRESENTATIVE.
16. EXTERIOR WATER SHUT-OFF VALVES BELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH COVERS CONSPICUOUSLY MARKED "WATER SHUT-OFF" RESPECTIVELY.
17. WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION, POTABLE WATER SYSTEMS SHALL BE DISINFECTED AND FLUSHED PRIOR TO USE BY WATER-CHLORINATION SOLUTION AND HAVE BACTERIOLOGICAL EXAMINATION MADE BY AN APPROVED AGENCY PER 2022 CPC SEC. 609.10 AND AS PRESCRIBED IN AWWA C651. METHODS OF CLEANING/ DISINFECTING FOR NEW OR REPAIR PIPING AS DESCRIBED IN C651 OR NFPA 24.
18. PLUMBING PIPE, FITTINGS AND FIXTURES USED TO CONVEY OR DISPENSE WATER FOR HUMAN CONSUMPTION SHALL COMPLY WITH AB 1953.
19. ANY SUBSTITUTION MADE THAT IS DIFFERENT FROM WHAT IS SPECIFIED ON THE DRAWINGS SHALL BE CLEARLY INDICATED ON THE SUBMITTAL AS TO THAT IS BEING SUBSTITUTED.
20. SHUT-OFF VALVES SHALL BE PROVIDED IN MAIN BRANCHES, RUNS TO RISERS AND WHERE INDICATED ON DRAWINGS.
21. NEW NON-RESIDENTIAL WATER CLOSETS SHALL COMPLY WITH 2022 CAL-GREEN 5.303.3.1 AND SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATER SENSE SPECIFICATION FOR TANK-TYPE TOILETS.
22. NEW NON-RESIDENTIAL WALL MOUNTED URINALS SHALL COMPLY WITH 2022 CAL-GREEN 5.303.3.2 AND SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.
23. NEW NON-RESIDENTIAL LAVATORY FAUCETS SHALL COMPLY WITH 2022 CAL-GREEN 5.303.3.4 AND SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.
24. NEW NON-RESIDENTIAL KITCHEN FAUCETS SHALL COMPLY WITH 2022 CAL-GREEN 5.303.3.4 AND SHALL NOT EXCEED 1.8 GALLONS PER MIN AT 60 PSI.

PIPE MATERIAL SCHEDULE

SERVICE	PIPE MATERIAL & WEIGHT	TYPE OF JOINTS	PRESSURE FITTINGS MATERIAL	SHUT-OFF RATINGS PSI - SwP	VALVE
COLD WATER ABV. GROUND	COPPER L TUBE	SOLDERED	CAST BRONZE/ WROUGHT COPPER	125	BALL GATE CHECK
HOT WATER ABV. GROUND	COPPER L TUBE	SOLDERED	CAST BRONZE/ WROUGHT COPPER	125	BALL CHECK
VENT	NO-HUB CAST IRON	NO-HUB	N/A	N/A	N/A
WASTE, SOIL & ROOF DRAINS BELOW GRADE	SCH 40 PVC DWV SCHEDULE 40 ABS	SOLVENT-WELD	PVC ABS	N/A	N/A
WASTE, SOIL & ROOF DRAINS ABOVE GRADE	NO-HUB CAST IRON	NO-HUB	N/A	N/A	N/A
CONDENSATE	COPPER L TUBE	SOLDERED	BRONZE	125	N/A

NOTE:
1. ALL METALLIC PIPING BELOW GRADE SHALL BE WRAPPED WITH CORROSION RESISTANT TAPE.

PIPE INSULATION SCHEDULE

FLUID TEMPERATURE RANGE (°F)	CONDUCTIVITY RANGE (IN BTU-INHR PER SQFT/°F)	INSULATION MEAN RATING TEMPERATURE (°F)		PIPE SIZE (IN. DIA.) < 1	1 to < 1.5	1.5 to < 4	4 to < 8	8 and larger
				REQUIRED INSULATION THICKNESS (IN.)				
SPACE HEATING, HOT WATER SYSTEMS (STEAM, STEAM CONDENSATE AND HOT WATER) AND SERVICE WATER HEATING SYSTEMS								
141° - 200°	0.25 - 0.29	125°	INCHES	1.5	1.5	2.0	2.0	2.0
			R-VALUE	R-11.5	R-11	R-14	R-11	R-10
105° - 140°	0.22 - 0.28	100°	INCHES	1.0	1.5	1.5	1.5	1.5
			R-VALUE	R-7.7	R-12.5	R-11	R-9	R-8

NOTE:
1. WHERE INSULATED PIPING IS EXPOSED OUTDOORS, IT SHALL BE COVERED. COVER OUTDOOR EXPOSED INSULATED PIPING WITH 0.016 INCH THICK CORRUGATED ALUMINUM JACKET. PROVIDE VALVE STEM EXTENSIONS SUCH THAT INSULATION IS NOT DAMAGED WHEN VALVE IS CYCLED.
2. CONDENSATE LINES ABOVE CEILINGS TO BE ASSUMED TO HAVE TEMPERATURE IN THE 40°-60°F RANGE AND THUS SHALL BE INSULATED AS SUCH.

PLUMBING LEGEND AND SYMBOLS

SYMBOL	ABBREV.	DESCRIPTION
DETAIL No. / SHEET No.		DETAIL REFERENCE
A / P-1		SECTION REFERENCE
STACK/RISER ID. No.		PLUMBING STACK OR RISER REFERENCE
EQUIPMENT ID. No.		EQUIPMENT REFERENCE
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
	-	POP-OFF DRAIN LINE OR HIDDEN WATER LINE
	S or W	SOIL or WASTE BELOW GRADE (or FLOOR)
GW	GW	GREASE WASTE BELOW GRADE (or FLOOR)
CWV	CWV	COMBINATION WASTE AND VENT
RD/OD	RD/OD	ROOF & OVERFLOW DRAIN ABOVE & BELOW GRADE (or FLOOR)
SD	SD	STORM DRAIN
	S or W	SOIL or WASTE ABOVE GRADE (or FLOOR)
	V	PLUMBING VENT
COND	COND	CONDENSATE DRAIN
G	G	GAS LOW PRESSURE
MPG	MPG	GAS MEDIUM PRESSURE
LPG	LPG	LIQUID PROPANE GAS
AS	AS	AUTOMATIC FIRE SPRINKLER
RW	RW	RECLAIM WATER
CA	CA	COMPRESSED AIR
CA	CAO	COMPRESSED AIR OUTLET
	BV	BALL VALVE
	SOV	SHUT OFF VALVE
SOV or GC	SOV or GC	SHUT OFF VALVE OR GAS COCK ON RISER
	CV	SWING CHECK VALVE
	PRV	PRESSURE REDUCING VALVE
	PTR	PRESSURE-TEMPERATURE RELIEF VALVE
	RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
	DN	PIPE DOWN
	UP	PIPE UP
	DN	TEE DOWN
	UP	TEE UP
C		PIPE RISER & PIPE DROP (UP AND DOWN)
FCO	FCO	FLOOR CLEANOUT
WCO	WCO	WALL CLEANOUT
CO	CO	CLEANOUT PLUG
COTG	COTG	YARD CLEANOUT or CLEANOUT TO GRADE
		CAP ON END OF PIPE
	HB	HOSE BIBB WITH VACUUM BREAKER
WHA & TP	WHA & TP	WATER HAMMER ARRESTOR & TRAP PRIMER
	CS	CIRCUIT SETTER
	GR	GAS REGULATOR
	GC	GAS COCK (or GAS STOP)
	GS	GAS SOLENOID
	P.O.C.	POINT OF CONNECTION
	P.O.D.	POINT OF DEMOLITION
	AP	ACCESS PANEL
	ABV	ABOVE
	BEL	BELOW
	AGA	AMERICAN GAS ASSOCIATION
	CONN	CONNECTION
	CONT	CONTINUATION
	(E)	EXISTING
	(N)	NEW
	DN	DOWN
	ADA	AMERICAN DISABILITY ACT
	IE	INVERT ELEVATION
	(TYP)	TYPICAL
	U.O.N.	UNLESS OTHER NOTED
	VTR	VENT THROUGH ROOF
	W/	WITH
	FU	PLUMBING FIXTURE UNIT
	SEC COND	SECONDARY CONDENSATE
	B.F.F.	BELOW FINISH FLOOR
	R.I.C.	ROUGH IN CONNECT

ANCHORAGE AND BRACING NOTES

1. PIPES, DUCTS AND CONDUITS SHALL BE SUPPORTED AND BRACED PER THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS", THE "SUPERSTRUT SEISMIC RESTRAINT SYSTEM" FOR PIPES AND CONDUITS ONLY.

APPLICABLE CODES

1. 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2022 CALIFORNIA BUILDING CODE (CBC),PART 2, TITLE 24 C.C.R. (IBC WITH AMENDMENTS)
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (NEC WITH AMENDMENTS)
4. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (UMC WITH AMENDMENTS)
5. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (UPC WITH AMENDMENTS)
6. 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (IFC WITH AMENDMENTS)
7. 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
8. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
9. 2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24 C.C.R.)
10. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSG), PART 11, TITLE 24 C.C.R.
11. 2021 INTERNATIONAL BUILDING CODE (IBC)
12. 2021 INTERNATIONAL MECHANICAL CODE (IMC)
13. 2021 INTERNATIONAL PLUMBING CODE (IPC)

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P-4.1	PLUMBING ENLARGED PLANS - BUILDING 1A
P-4.2	PLUMBING ENLARGED PLANS - BUILDING 1
P-5.1	PLUMBING DETAILS

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COUNTY OF RIVERSIDE
FLOOD CONTROL

1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/26
2	BID ADDENDUM #02	04/17/26

REGISTERED PROFESSIONAL ENGINEER
STEVEN M. JOHNSON
No. 33209
MECHANICAL
STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:
PLUMBING LEGENDS NOTES & SCHEDULES

SHEET NUMBER:
P-0.1

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22854	AD	SJ	04/17/2026

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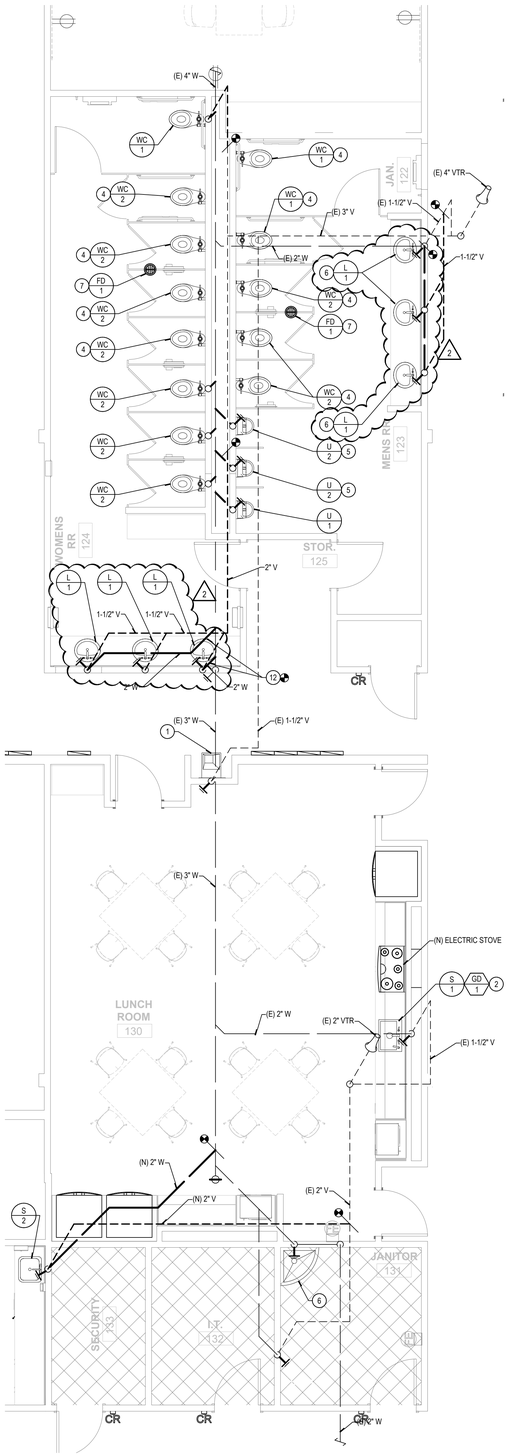
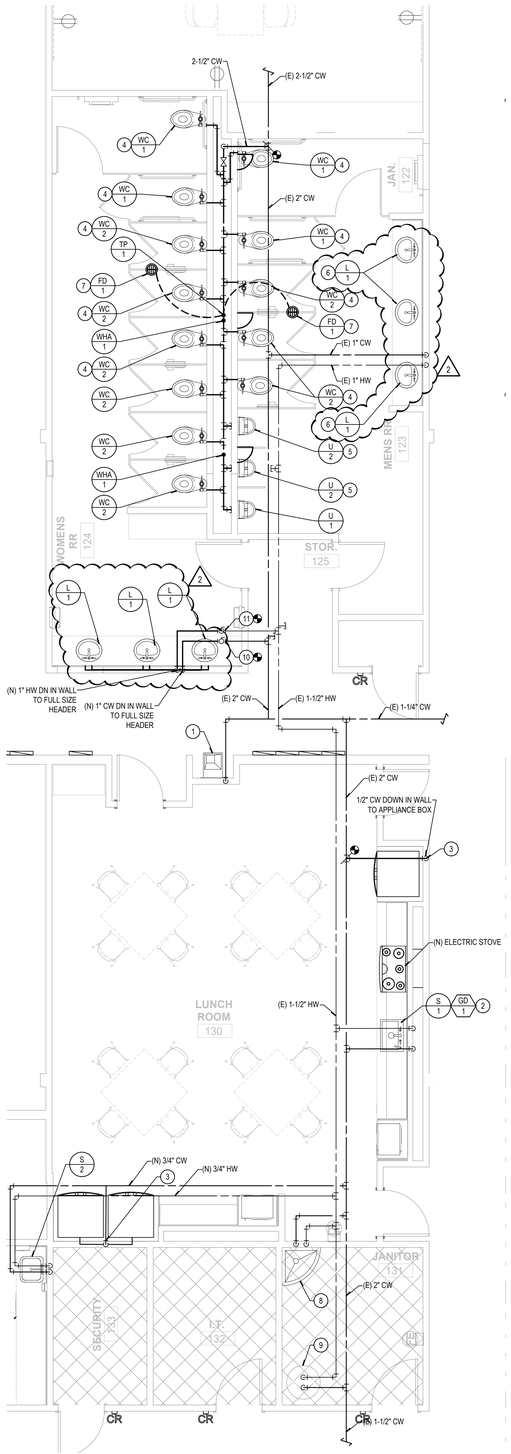
25-139

R:_PROJECT\2025\25-139 RIVERSIDE FLOOD CONTROL ADMIN RENOVATION_CAD\25-139 P-FRONT - 2026-04-16 - LOGAN CULLEN



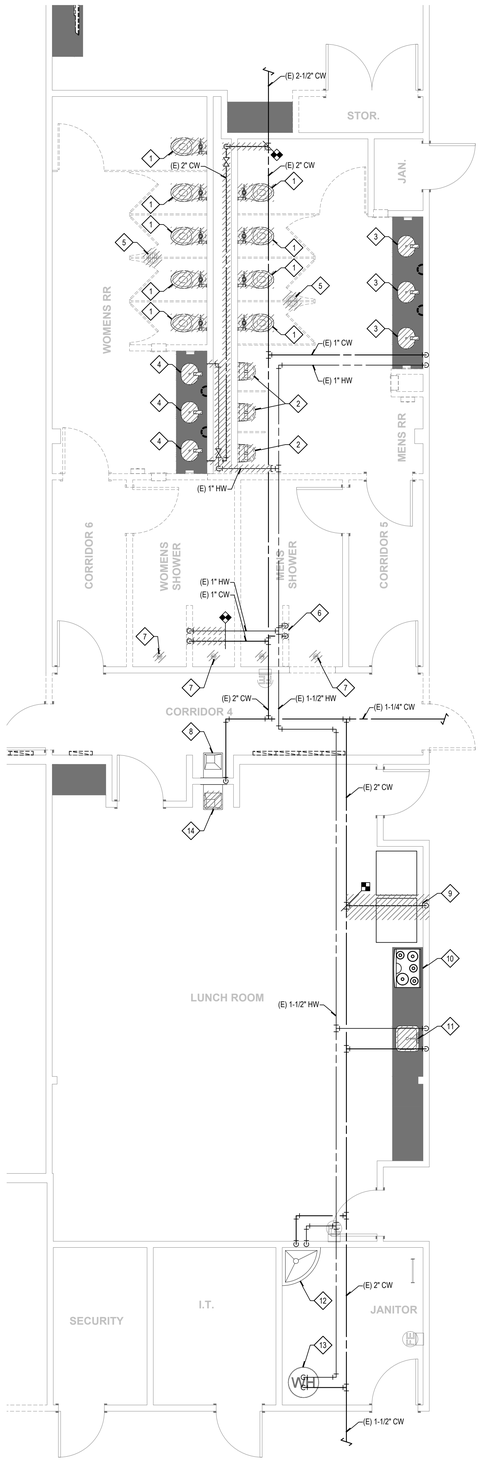
BUILDING 1A RESTROOM WASTE & VENT PLAN

SCALE: 1/4" = 1'-0" | 3



BUILDING 1A RESTROOM DOMESTIC WATER PLAN

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



BUILDING 1A RESTROOM DEMOLITION PLAN

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

GENERAL NOTES

1. FOR LINE TYPES, SYMBOLS AND ABBREVIATIONS SEE LEGEND ON SHEET P-0.1.
2. ROUTE HOT WATER LOOP AS CLOSE AS POSSIBLE TO ALL FIXTURES.
3. ALL VENTING SHALL HAVE A MIN. OF 10' CLEARANCE FROM ANY FORCED AIR INLET WITH A MINIMUM OF 3' CLEARANCE ABOVE AND A MIN OF 4' CLEARANCE FROM ANY PROPERTY LINE EXCEPT A PUBLIC WAY PER CPC SECTION 906.
4. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE, ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE CPC.
5. CONTRACTOR SHALL PATCH FLOORS, WALLS AND CEILINGS TO MATCH NEW CONSTRUCTION PER ARCHITECTS SPECIFICATIONS.
6. PRIOR TO CONSTRUCTION CONTRACTOR SHALL FIELD VERIFY FOR EXACT SIZE, LOCATION AND INVERT ELEVATION OF EXISTING WASTE LINE AND COORDINATE WITH PLUMBING ENGINEER FOR ANY CHANGES NEEDED.
7. SHUT-OFF VALVES SHALL BE PROVIDED ON ALL MAIN BRANCHES, RUNS TOO RISERS AND WHERE SHOWN ON DRAWING. LOCATE SHUT-OFF VALVES OVER T-BAR CEILING WHEN POSSIBLE. PROVIDE ACCESS PANELS WHEN SHUT-OFF VALVES ARE LOCATED OVER HARD LID CEILINGS.

DEMOLITION NOTES

1. EXISTING WATER CLOSET TO BE REMOVED AND REPLACED WITH NEW WATER CLOSET. EXISTING WASTE AND VENT PIPING TO REMAIN AND BE REWORKED FOR CONNECTION TO NEW WATER CLOSET. EXISTING COLD WATER TO BE REMOVED BACK TO POINT OF DISCONNECT.
2. EXISTING URINAL TO BE REMOVED AND REPLACED WITH NEW URINAL. EXISTING WASTE AND VENT PIPING TO REMAIN AND BE REWORKED FOR CONNECTION TO NEW URINAL. EXISTING COLD WATER TO BE REMOVED BACK TO POINT OF DISCONNECT.
3. EXISTING LAVATORY TO BE REMOVED AND REPLACED WITH NEW LAVATORY. EXISTING PIPING IN WALL TO REMAIN AND BE REWORKED FOR CONNECTION TO NEW LAVATORY.
4. EXISTING LAVATORY TO BE REMOVED. REMOVE ALL RELATED PIPING BACK AND CAP IN PLUMBING WALL.
5. EXISTING FLOOR DRAIN TO BE REMOVED AND REPLACED WITH NEW FLOOR DRAIN. EXISTING PIPING TO REMAIN AND BE REWORKED FOR CONNECTION TO NEW FLOOR DRAIN.
6. EXISTING SHOWER FAUCET TO BE REMOVED. REMOVE ALL RELATED PIPING BACK AND CAP IN CEILING.
7. EXISTING FLOOR DRAIN TO BE REMOVED. REMOVE ALL RELATED PIPING BACK AND CAP BELOW SLAB.
8. EXISTING DRINKING FOUNTAIN TO BE PROTECTED IN PLACE.
9. EXISTING APPLIANCE WATER CONNECTION TO BE REMOVED BACK TO P.O.D. AND CAPPED IN CEILING SPACE.
10. EXISTING GAS STOVE TO BE REMOVED, SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ASSOCIATED GAS PIPING TO BE REMOVED BACK AND CAPPED IN CEILING.
11. EXISTING SINK AND GARBAGE DISPOSAL TO BE REMOVED AND REPLACED WITH NEW. EXISTING PIPING TO REMAIN AND BE REWORKED FOR CONNECTION TO NEW SINK AND GARBAGE DISPOSAL. ASSOCIATED EXISTING WATER FILTRATION SYSTEM TO BE REMOVED AND REINSTALLED DURING REMODEL PHASE.
12. EXISTING JANITOR SINK TO BE PROTECTED IN PLACE.
13. EXISTING GAS 74-GALLON WATER HEATER TO BE PROTECTED IN PLACE.
14. EXISTING DRINKING FOUNTAIN TO BE REMOVED. REMOVE PLUMBING STUB OUTS AND CAP IN WALL.

CONSTRUCTION NOTES

1. EXISTING DRINKING FOUNTAIN TO BE PROTECTED IN PLACE.
2. CONNECT NEW SINK TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO NEW FIXTURE.
3. CONNECT NEW APPLIANCE BOX WITH SOV TO NEW WATER LINE. FIELD VERIFY FOR EXACT SIZE AND LOCATION.
4. CONNECT NEW WATER CLOSET TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO NEW FIXTURE.
5. CONNECT NEW URINAL TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO NEW FIXTURE.
6. CONNECT NEW LAVATORY TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO NEW FIXTURE.
7. CONNECT NEW FLOOR DRAIN TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO NEW FIXTURE. PROVIDE NEW TRAP PRIMER BEHIND ACCESS PANEL AND ROUTE NEW 1/2" TRAP PRIMER LINE BELOW SLAB TO FLOOR DRAIN.
8. EXISTING JANITOR SINK TO BE PROTECTED IN PLACE.
9. EXISTING GAS 74-GALLON WATER HEATER TO BE PROTECTED IN PLACE.
10. CONNECT NEW 1" COLD WATER TO EXISTING 1" COLD WATER LINE WITH NEW SHUTOFF VALVE, FIELD VERIFY FOR EXACT SIZE AND LOCATION.
11. CONNECT NEW 1" HOT WATER TO EXISTING 1" HOT WATER LINE WITH NEW SHUTOFF VALVE, FIELD VERIFY FOR EXACT SIZE AND LOCATION.
12. CONNECT (N) 2" W LINE TO EXISTING WASTE LINE. FIELD VERIFY FOR EXACT SIZE & LOCATION.

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COUNTY OF RIVERSIDE
FLOOD CONTROL

1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/26
2	BID ADDENDUM #02	04/17/26

REGISTERED PROFESSIONAL ENGINEER
STEVEN M. JOHNSON
No. 33209
MECHANICAL
STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:

PLUMBING ENLARGED PLANS - BUILDING 1A

SHEET NUMBER:

P-4.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
22854	AD	SJ	04/17/2026

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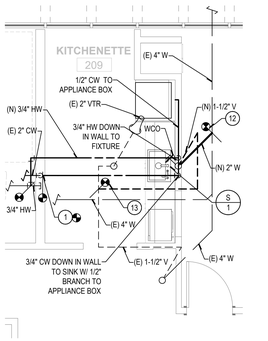
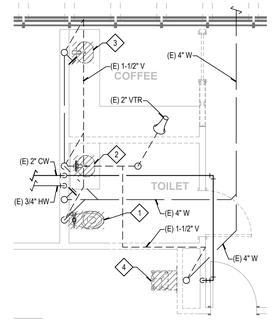
25-139

R:_PROJECT\2025\25-139 RIVERSIDE FLOOD CONTROL ADMIN RENOVATION_CAD\25-139 P-1 STEN.PLN - 2026-04-16 - LOGAN CULLEN



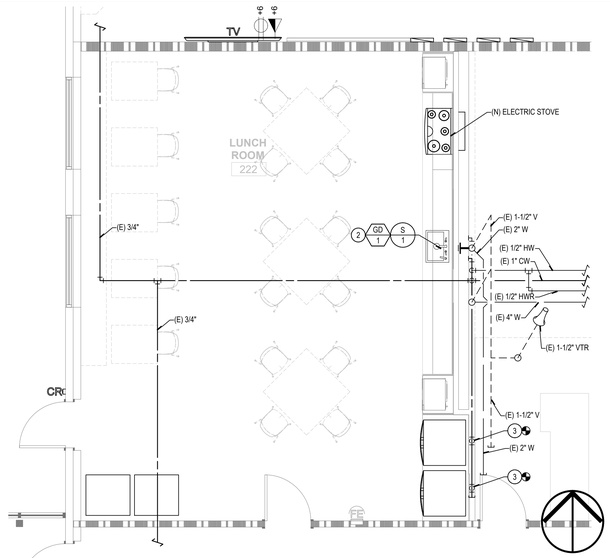
BUILDING 1 KITCHENETTE PLAN

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



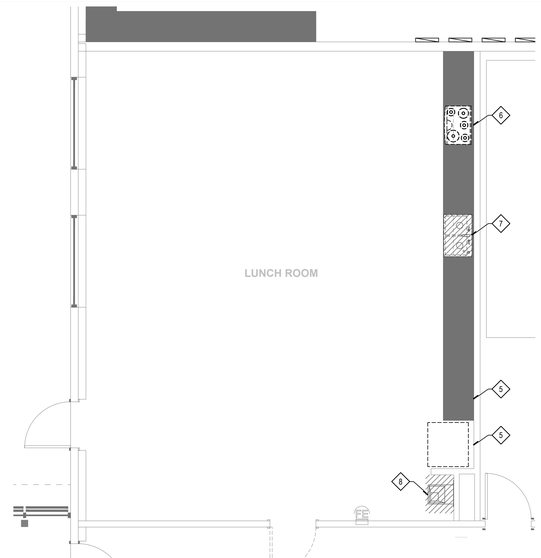
BUILDING 1 COFFEE & TOILET DEMOLITION PLAN

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



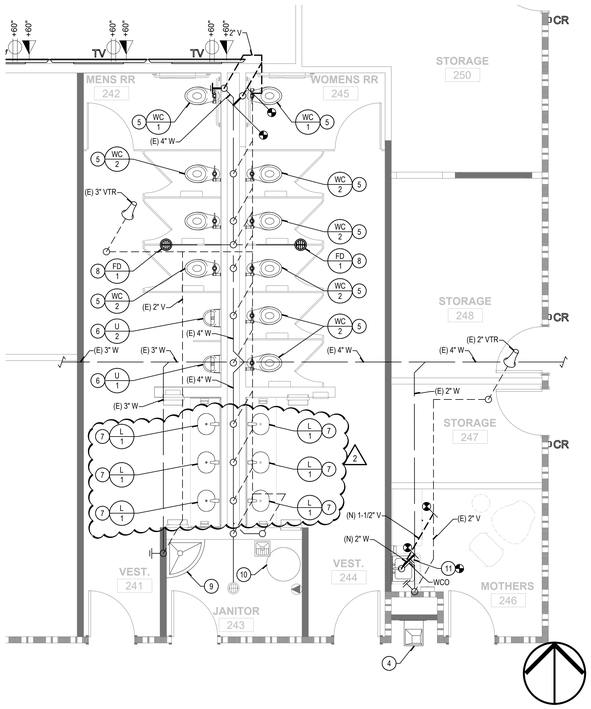
BUILDING 1 LUNCH ROOM PLUMBING PLAN

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



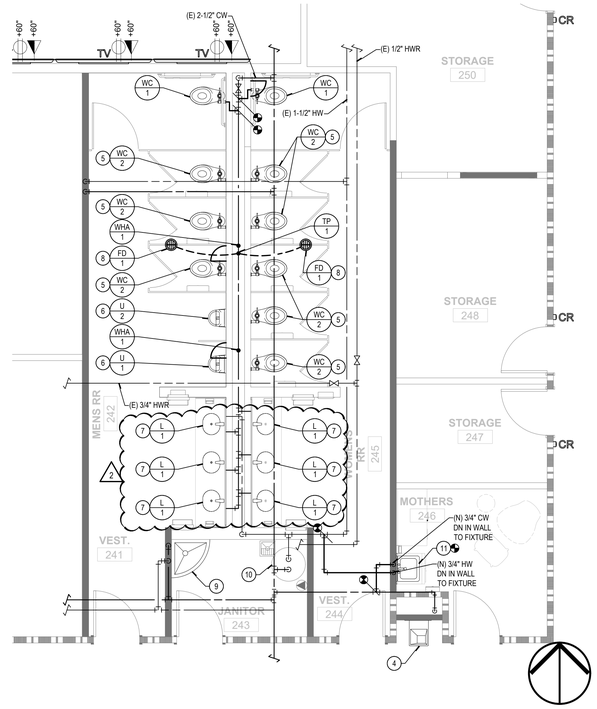
BUILDING 1 LUNCH ROOM DEMOLITION PLAN

SCALE: 1/4" = 1'-0" | 3



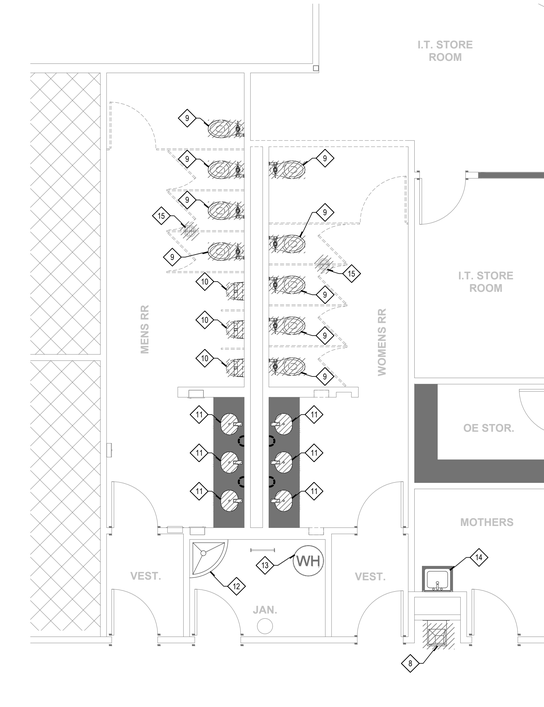
BUILDING 1 RESTROOM WASTE & VENT PLAN

SCALE: 1/4" = 1'-0" | 7



BUILDING 1 RESTROOM DOMESTIC WATER PLAN

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



BUILDING 1 RESTROOM DEMOLITION PLAN

SCALE: 1/4" = 1'-0" | 5

GENERAL NOTES

1. FOR LINE TYPES, SYMBOLS AND ABBREVIATIONS SEE LEGEND ON SHEET P-0.1.
2. ROUTE HOT WATER LOOP AS CLOSE AS POSSIBLE TO ALL FIXTURES.
3. ALL VENTING SHALL HAVE A MIN. OF 10' CLEARANCE FROM ANY FORCED AIR INLET WITH A MINIMUM OF 3' CLEARANCE ABOVE AND A MIN OF 4' CLEARANCE FROM ANY PROPERTY LINE EXCEPT A PUBLIC WAY PER CPC SECTION 906.
4. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE, ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE CPC.
5. CONTRACTOR SHALL PATCH FLOORS, WALLS AND CEILINGS TO MATCH NEW CONSTRUCTION PER ARCHITECTS SPECIFICATIONS.
6. PRIOR TO CONSTRUCTION CONTRACTOR SHALL FIELD VERIFY FOR EXACT SIZE, LOCATION AND INVERT ELEVATION OF EXISTING WASTE LINE AND COORDINATE WITH PLUMBING ENGINEER FOR ANY CHANGES NEEDED.
7. SHUT-OFF VALVES SHALL BE PROVIDED ON ALL MAIN BRANCHES, RUNS TOO RISERS AND WHERE SHOWN ON DRAWING. LOCATE SHUT-OFF VALVES OVER T-BAR CEILING WHEN POSSIBLE. PROVIDE ACCESS PANELS WHEN SHUT-OFF VALVES ARE LOCATED OVER HARD LID CEILINGS.

DEMOLITION NOTES

1. EXISTING WATER CLOSET TO BE REMOVED. REMOVE ALL RELATED PIPING BACK AND CAP IN CEILING AND BELOW SLAB.
2. EXISTING LAVATORY TO BE REMOVED. REMOVE ALL RELATED PIPING BACK AND CAP IN CEILING AND BELOW SLAB.
3. EXISTING SINK AND ASSOCIATED EXISTING WATER FILTRATION SYSTEM TO BE REMOVED. REMOVE ALL RELATED PIPING BACK AND CAP IN CEILING AND BELOW SLAB.
4. EXISTING DRINKING FOUNTAIN TO BE REMOVED. REMOVE ALL RELATED PIPING BACK AND CAP IN CEILING AND BELOW SLAB.
5. EXISTING APPLIANCE WATER CONNECTION TO BE REMOVED BACK TO WALL AND PREPARED FOR NEW CONNECTION.
6. EXISTING GAS STOVE TO BE REMOVED, SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ASSOCIATED GAS PIPING TO BE REMOVED BACK AND CAPPED IN CEILING.
7. EXISTING SINK AND GARBAGE DISPOSAL TO BE REMOVED AND REPLACED WITH NEW. EXISTING PIPING TO REMAIN AND BE REWORKED FOR CONNECTION TO NEW SINK AND GARBAGE DISPOSAL. ASSOCIATED EXISTING WATER FILTRATION SYSTEM TO BE REMOVED AND REINSTALLED DURING REMODEL PHASE.
8. EXISTING DRINKING FOUNTAIN AND STUB OUTS TO BE REMOVED. EXISTING PLUMBING PIPES TO BE CAPPED IN WALL.
9. EXISTING WATER CLOSET TO BE REMOVED AND REPLACED WITH NEW WATER CLOSET. EXISTING PIPING TO REMAIN AND BE REWORKED FOR CONNECTION TO NEW WATER CLOSET.
10. EXISTING URINAL TO BE REMOVED AND REPLACED WITH NEW URINAL. EXISTING PIPING TO REMAIN AND BE REWORKED FOR CONNECTION TO NEW URINAL.
11. EXISTING LAVATORY TO BE REMOVED AND REPLACED WITH NEW LAVATORY. EXISTING PIPING TO REMAIN AND BE REWORKED FOR CONNECTION TO NEW LAVATORY.
12. EXISTING JANITOR SINK TO BE PROTECTED IN PLACE.
13. EXISTING GAS 74-GALLON WATER HEATER TO BE PROTECTED IN PLACE.
14. EXISTING LAVATORY TO BE RELOCATED. EXISTING PIPING TO BE CAPPED IN WALL. EXISTING CW & HW PIPING TO BE REWORKED FOR NEW LAVATORY LOCATION.
15. EXISTING FLOOR DRAIN TO BE REMOVED AND REPLACED WITH NEW FLOOR DRAIN. EXISTING PIPING TO REMAIN AND BE REWORKED FOR CONNECTION TO NEW FLOOR DRAIN.

CONSTRUCTION NOTES

1. CONNECT NEW 3/4" COLD WATER TO EXISTING COLD WATER LINE, FIELD VERIFY FOR EXACT SIZE AND LOCATION.
2. CONNECT NEW SINK TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO REVERSE OSMOSIS SYSTEM BY OWNER.
3. CONNECT NEW APPLIANCE BOX TO EXISTING WATER LINE, FIELD VERIFY FOR EXACT SIZE AND LOCATION.
4. EXISTING DRINKING FOUNTAIN TO BE PROTECTED IN PLACE.
5. CONNECT NEW WATER CLOSET TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO NEW FIXTURE.
6. CONNECT NEW URINAL TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO NEW FIXTURE.
7. CONNECT NEW LAVATORY TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO NEW FIXTURE.
8. CONNECT NEW FLOOR DRAIN TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO NEW FIXTURE. PROVIDE NEW TRAP PRIMER BEHIND ACCESS PANEL AND ROUTE NEW 1/2" TRAP PRIMER LINE BELOW SLAB TO FLOOR DRAIN.
9. EXISTING JANITOR SINK TO BE PROTECTED IN PLACE.
10. EXISTING GAS 74-GALLON WATER HEATER TO BE PROTECTED IN PLACE.
11. CONNECT EXISTING LAVATORY TO EXISTING PIPING. REWORK EXISTING PIPING (AS NEEDED) FOR CONNECTION TO NEW FIXTURE LOCATION.
12. CONNECT NEW 2" WASTE PIPE TO EXISTING WASTE PIPE, FIELD VERIFY FOR EXACT SIZE AND LOCATION.
13. CONNECT NEW 1-1/2" VENT PIPE TO EXISTING VENT PIPE, FIELD VERIFY FOR EXACT SIZE AND LOCATION.

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COUNTY OF RIVERSIDE
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REGISTERED PROFESSIONAL ENGINEER
STEVEN M. JOHNSON
No. 33209
MECHANICAL
STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:

PLUMBING ENLARGED PLANS - BUILDING 1

SHEET NUMBER:

P-4.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
22854	AD	SJ	04/17/2026

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R:_PROJECT\2025\25-139 RIVERSIDE FLOOD CONTROL ADMIN RENOVATION_ CAD\25-139 P-1\STEN_PLN - 2026-04-16 - LOGAN CULLEN

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST CODE OF FEDERAL REGULATIONS (CFR), NATIONAL ELECTRICAL CODE EDITION AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
2. ALL WORK IS NEW UNLESS NOTED OTHERWISE.
3. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE TO UL REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN.
4. WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
5. WHERE EXISTING CIRCUITS OR DEVICES ARE DEMOLISHED, MODIFIED, OR REUSED, ENSURE ALL EXISTING ELECTRICAL UTILIZATION DEVICES TO REMAIN ARE ENERGIZED UPON COMPLETION OF WORK.
6. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.
7. CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
8. LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS, AT OR NEAR DOORS. INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGE. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK.
9. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
10. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELLS/STROBES, FIRE ALARM PULL STATIONS, RECEPTACLES ETC. WITH CABINETS, FURNITURE, EQUIPMENT ETC., TO AVOID CONFLICT.
11. WHERE ELECTRIC MOTORS OR HEATERS ARE INSTALLED IN HUNG CEILINGS, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT.
12. FURNISH APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
13. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
14. NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, PROVIDE SEPARATE CONDUIT FOR EACH HOMERUN INDICATED ON THE DRAWING, UNLESS INDICATED OTHERWISE.
15. PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULL BOX SHALL COMPLY WITH N.E.C. REQUIREMENTS.
16. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILING SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURES.
17. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS, CONTROL TRANSFORMERS, POWER FOR CONTROL SYSTEM EP AND PE SWITCHES, TIME CLOCKS, VALVES, STATS, RELAYS, DUCT SMOKE DETECTOR LOCATIONS, ETC. INDICATED ON CONTROL WIRING DIAGRAMS. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS WITH MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED.
18. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT SHALL BE WEATHERPROOF TYPE, NEMA 3R AND ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO DIRECT WATER SPRAY OR IN CORROSIVE LOCATIONS SHALL BE NEMA 4X, REGARDLESS OF ALTERNATE NEMA RATING INDICATED IN NOTES OR SCHEDULES.
19. NO CONDUIT RUNS SHALL BE ALLOWED IN CONCRETE SLABS. ALL CONDUITS WILL BE PLACED ABOVE ACCESSIBLE CEILING SPACES UNLESS SPECIFICALLY INDICATED TO BE UNDERGROUND.
20. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK-TO-BACK.
21. WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE. PLATES WITH MORE THAN (3) LIGHT SWITCHES SHALL BE LABELED TO INDICATE THE LIGHT FIXTURES CONTROLLED.
22. DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL SUPPORTS, OR OTHERWISE DIRECTLY ON EQUIPMENT, PROVIDED NO MODIFICATION TO EQUIPMENT IS NECESSARY.
23. ALL ELECTRICAL POWER, LIGHTING, TELEPHONE OR SIGNAL WIRING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM.
24. ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
25. ALL DISTRIBUTION AND CONTROL EQUIPMENT (SUCH AS CB's, SWITCHES, CONTACTORS, ETC.), TERMINATIONS SHALL BE FULLY RATED PER UL AS FOLLOWS:

    a. 100A OR LESS : 60°C OR MORE;
    b. MORE THAN 100A : 75°C OR MORE.
26. ANY ERRORS, OMISSIONS, OR DESIGN DISCREPANCIES ON PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR CORRECTION PRIOR TO CONSTRUCTION AND PREPARATION OF SUBMITTAL PACKAGES.
27. CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC.(UL) LISTED, 600 VOLT INSULATION OF TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS. CONDUCTORS SHALL BE COPPER AND LISTED FOR 90 DEGREE APPLICATIONS.

    1. BRANCH CIRCUITS - LIGHTING AND POWER.

    a. #10 AWG AND SMALLER, STRANDED OR SOLID WIRE TYPE THW OR THHN/THWN-2, THHW (THHN FOR DRY LOCATION ONLY),
    b. #8 AWG TO #2 AWG, STRANDED TYPE THW OR THHN/THHW.
    c. #1 AWG AND LARGER, STRANDED TYPE XHHW-2.

    2. FEEDERS : TYPE THW OR THHN/THWN-2, OR XHHW-2.
28. PROVIDE GREEN INSULATED GROUNDING CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, PLUG STRIPS, WIREMOLD. SIZE OF GROUNDING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 250.
29. WIRING METHOD SHALL BE EMT ABOVE GROUND AND MOUNTED IN CONCEALED SPACES AND SCHEDULE-40 PVC FOR UNDERGROUND INSTALLATION. USE RIGID WHEN ENCASED IN CONCRETE OR SUSCEPTIBLE TO DAMAGE.
30. ALL SWITCH LOCATIONS ARE REQUIRED TO HAVE A NEUTRAL CONDUCTOR PROVIDED AT THE SWITCH LOCATION PER NEC 404.2(C).
31. UNLESS OTHERWISE INDICATED, SHARING OF NEUTRAL/GROUNDED CONDUCTORS AMONG SINGLE PHASE BRANCH CIRCUITS OF DIFFERENT PHASES INSTALLED IN THE SAME RACEWAY IS NOT PERMITTED. PROVIDE DEDICATED NEUTRAL/GROUNDED CONDUCTOR FOR EACH INDIVIDUAL BRANCH CIRCUIT.
32. UNLESS OTHERWISE INDICATED, PROVIDE A SEPARATE SWITCHED AND UNSWITCHED PHASE CONDUCTOR TO ALL CONTROLLED RECEPTACLES REGARDLESS OF RECEPTACLE CONFIGURATION.
33. BASIS OF ELECTRICAL DESIGN LIMITS VOLTAGE DROP TO 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS. ANY CHANGES MADE IN THE FIELD SHALL LIMIT VOLTAGE DROP TO THESE PERCENTAGES.
34. BRANCH CIRCUIT CONDUITS SHALL BE CONCEALED IN WALL OR CEILING SPACES. EXPOSED CONDUITS ARE NOT ALLOWED WHERE CONCEALED METHODS ARE AVAILABLE.
35. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUITS REQUIRED FOR ALL BRANCH CIRCUITS AND FEEDERS. FOR CIRCUIT SIZES NOT SHOWN, REFER TO PANEL SCHEDULES FOR CONDUCTOR AND CONDUIT SIZES.
36. ALL EMERGENCY CIRCUITS SHALL BE ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT AND SHALL NOT ENTER SAME RACEWAY, BOXES OR CABINETS WITH OTHER WIRING EXCEPT WHERE PROVIDED IN NEC 700.9B.
37. REFER TO LIGHTING CONTROL DETAILS FOR WIRING AND CONDUIT REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL WIRING AND CONDUITS REQUIRED BY MANUFACTURER TO FIXTURES AND CONTROLS.
38. THE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER TRADES. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION, WHICH DIFFERS FROM THE WORK AS SHOWN ON THE CONTRACT DOCUMENTS, SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
39. EXACT ROUTING METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN WOOD ROOF DECKS, WALL, FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE DETERMINED BY THE CONTRACTOR IN FIELD. PERFORM CORING, SAWCUTTING, PATCHING AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING AND WATER PROOFING REQUIREMENTS OF THE PARTICULAR WALL, FLOOR OR CEILING. ALL FIRE SEALS SHALL BE UL APPROVED. CONTRACTOR SHALL SCAN ALL CONCRETE WALLS AND SLABS FOR THE PRESENCE OF REBAR AND/OR UTILITIES PRIOR TO DRILLING OR CUTTING IF CONCRETE WORK IS INVOLVED. CONTRACTOR SHALL PROVIDE CERTIFICATION OF CALIBRATION OF CONCRETE SCANNING EQUIPMENT PRIOR TO PERFORMING WORK.
40. ALL 125 AND 250-VOLT, 15- AND 20-AMPERE NONLOCKING TYPE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES IN AREAS SPECIFIED IN NEC 406.12.
41. ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS SPECIFIED BELOW SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL AND ANY OTHER AREAS SPECIFIED IN NEC 210.8
    a. BATHROOMS
    b. KITCHENS OR AREAS WITH A SINK AND PERMANENT PROVISIONS FOR EITHER FOOD PREPARATION OR COOKING
    c. ROOFTOPS
    d. SINKS — WHERE RECEPTACLES ARE INSTALLED WITHIN 6 FT FROM THE TOP
    e. INDOOR DAMP AND WET LOCATIONS

ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME RATING (CIRCUIT BREAKER)
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFU	AMPERE FUSE RATING (FUSE)
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMPERE SWITCH RATING (FUSE)
AT	AMPERE TRIP RATING (CIRCUIT BREAKER)
AWG	AMERICAN WIRE GAUGE
BCG	BARE COPPER GROUND
BKBD	BACKBOARD
BLDG	BUILDING
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CFSD	COMBINATION FIRE SMOKE DAMPER
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
CL	CENTERLINE
DISC	DISCONNECT
DSBN	DISTRIBUTION SECTION
DN	DOWN
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EXIST, (E)	EXISTING
EXO	EXTERNAL OPERABLE DISCONNECT
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FF	FINISHED FLOOR
FG	FINISHED GRADE
FLA	FULL LOAD CURRENT
GEC	GROUNDING ELECTRODE CONDUCTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HD	HEAVY DUTY
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HV	HIGH VOLTAGE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED/INSULATED GROUND
ISC	SHORT CIRCUIT CURRENT AVAILABLE IN RMS SYMMETRICAL AMPERES
J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATT
KV	KILO VOLT
KVA	KILO VOLT-AMPERE
LDC	LOCAL DISTRIBUTION CABINET
LDF	LOCAL DISTRIBUTION FRAME
LCL	LONG CONTINUOUS LOAD
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LSIG	LONG, SHORT, INSTANTANEOUS, GROUND
LTG	LIGHTING
LV	LOW VOLTAGE
MFR	MANUFACTURER
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MH	MANHOLE / METAL HALIDE
MLO	MAIN LUGS ONLY
M/M	METER AND MAIN SECTION
MV	MEDIUM VOLTAGE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NEW (N)	NEW, TO BE FURNISHED AND INSTALLED BY CONTRACTOR
NF	NON-FUSED
NIC	NOT IN CONTRACT
N/L	NIGHT LIGHT
NO	NUMBER, NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
POC	POINT OF CONNECTION
PP	POWER POLE
PWR	POWER
PVC	POLYVINYL CHLORIDE
QUAD	QUADRUPLEX
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
RMC	RIGID METALLIC CONDUIT
RM	ROOM
RNC	RIGID NONMETALLIC CONDUIT
SHT	SHEET
SN	SOLID NEUTRAL
SPEC	SPECIFICATIONS
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TEL	TELEPHONE
TERM	TERMINAL
TP	TEMPORARY POLE
TYP	TYPICAL
UGPS	UNDERGROUND PULL SECTION
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTAGE
VA	VOLT-AMPERE
VD	VOLTAGE DROP
VFC	VARIABLE FREQUENCY CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WH	WATT-HOUR
WP	WEATHERPROOF
WW	WIREWAY
XP	EXPLOSION PROOF
Z	IMPEDANCE
4W	FOUR-WIRE
3W	THREE-WIRE
SS	JUNCTION BOX (4 11/16" SQUARED X2 1/8" DEEP)
Ø	DIAMETER, PHASE
#	NUMBER
°C	DEGREE CELSIUS
(E)	EXISTING DEVICE TO REMAIN
(R)	REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT AND WIRE
(RL)	REMOVE EXISTING DEVICE AND RELOCATE AS SHOWN ON PLAN
(NL)	NEW LOCATION OF RELOCATED DEVICE

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND MAKE THEMSELVES COMPLETELY FAMILIAR WITH THE EXISTING INSTALLED CONDITIONS. A FIELD SURVEY VERIFICATION IS MANDATORY IN ORDER TO SUBMIT AN ELECTRICAL BID, FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK OF THIS CONTRACT.
2. ALL EQUIPMENT OR WORK REQUIRED TO CARRY OUT THE DEMOLITION SCOPE OF WORK IS CONSIDERED TO BE PART OF THE CONTRACTOR SCOPE OF WORK. NO EXTRAS WILL BE CONSIDERED TO PERFORM THE REQUIRED WORK.
3. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE FACILITY DIRECTOR PRIOR TO THE SCHEDULING OF ANY POWER OUTAGE. SUCH PERMISSION MUST BE OBTAINED IN WRITING AND BE GRANTED AT LEAST 7 DAYS PRIOR TO ANY SCHEDULE SHUT DOWN. THE SHUT DOWN SHALL NOT EXCEED A DURATION OF 4 HOURS.
4. THE CONTRACTOR SHALL NOT STORE ON SITE ANY ITEMS THAT WERE DEMOLISHED FOR ANY EXTENDED PERIOD OF TIME, WITHOUT THE WRITTEN PERMISSION OF THE CAMPUS FACILITY DIRECTOR.
5. ALL ELECTRICAL ITEMS DESIGNATED AS EXISTING TO REMAIN SHALL AS PART OF THIS SCOPE OF WORK BE CLEANED AND TESTED, TO INSURE PROPER OPERATION. ANY ITEMS THAT FAIL TO PASS THE TEST SHALL BE BROUGHT TO THE ATTENTION OF THE FIELD INSPECTOR AND THE ENGINEER OF RECORD FOR RESOLUTION.
6. THE CONTRACTOR SHALL REMOVE ALL EXISTING SWITCHBOARDS, DISTRIBUTION BOARDS, PANEL BOARDS, LIGHTING FIXTURES, CONDUITS, WIRES AND OTHER ELECTRICAL APPARATUS DESIGNATED AS EXISTING TO BE REMOVED. DEMOLITION ITEMS, IF NOT REQUIRED TO BE SALVAGED BY OWNER, BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER.
7. THE CONTRACTOR SHALL REMOVE ALL CONDUITS SERVING DEVICES WHICH ARE DESIGNATED AS EXISTING TO BE REMOVED, BACK TO THE SOURCE.
8. DEMOLITION AND/OR REMOVAL OF ELECTRICAL EQUIPMENT IN AREAS TO BE REMODELED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. WHERE OUTLETS ARE REMOVED IN EXISTING WALL, REMOVE DEVICES, OUTLETS AND WIRING BACK TO PANELBOARD OR BACK TO NEAREST OUTLET WITH OTHER EXISTING LOAD TO REMAIN.
10. WHERE EXISTING CONDUIT AND CONDUCTORS ARE TO BE REMOVED AND CONDUIT IS INSTALLED IN GROUND OR EMBEDDED IN CONCRETE, REMOVE WIRE AND CUT CONDUIT TO BELOW FLOOR, PLUG CONDUIT, PATCH FLOOR AND ABANDON CONDUIT.
11. WHERE ELECTRICAL DEVICES ARE TO BE REMOVED, REMOVE ALL CONDUIT AND CONDUCTORS BACK TO SOURCE, TERMINAL CABINETS AND RACKS, PROVIDE BLANK COVER PLATE FOR ABANDONED JUNCTION BOXES.
12. REMOVE ALL CONTROL PANELS, EQUIPMENT RACKS, PULL-BOXES, TERMINAL CABINETS, ETC. FOR SYSTEMS TO BE DEMOLISHED EXCEPT WHERE ANY OF THE EXISTING DEVICES, SYSTEMS, CONSOLES, ETC. ARE TO BE REUSED FOR UPGRADE.
13. PROVIDE BLANK COVER PLATE FOR ALL EMPTY OUTLET BOXES WHERE DEVICES AND/OR CONDUCTORS HAVE BEEN REMOVED AS PART OF THIS CONTRACT.
14. AFTER REMOVAL OF WIREMOLD AND ASSOCIATED FITTINGS, PATCH, REPAIR AND PAINT AFFECTED SURFACES TO MATCH EXISTING.
15. EXISTING CONDUIT CAN BE REUSED PROVIDING IT IS CODE COMPLIANT, IS CHECKED FOR CONTINUITY OF GROUND, CLEAN AND MANDREL, AND DOES NOT INTERFERE WITH NEW CONSTRUCTION.
16. REMOVALS AND REPAIRS TO EXISTING ELECTRICAL WORK REQUIRED TO AVOID CONFLICTS WITH NEW CONSTRUCTION TO MEET MINIMUM CODE REQUIREMENTS.

NOTE TO CONTRACTOR

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

POWER LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
200-Y	CONDUIT WIRING DESCRIPTION PER FEEDER SCHEDULE ON OTHER PLAN
PB	CONCRETE ELECTRICAL PULL BOX WITH LID APPROPRIATE FOR INSTALLATION LOCATION. LID SHALL BE LABELED "ELECTRICAL" OR "COMM" ACCORDING TO USE.
	SMOKE FIRE DAMPER
(D)	DUCT MOUNTED SMOKE DETECTOR.
T	THERMOSTAT SUPPLIED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL STUB 3/4" C.O. 6" ABOVE CEILING SPACE. PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARDLID CEILING, PROVIDE 3/4" C.O. BACK TO ASSOCIATED HVAC UNIT. REFER TO MECHANICAL DETAILS FOR T-STAT MOUNTING HEIGHT REQUIREMENTS. VERIFY LOCATIONS WITH HVAC CONTRACTOR PRIOR TO ROUGH IN.
CO	CARBON MONOXIDE SENSOR SUPPLIED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" GALVANIZED RIGID CONDUIT WITH PULL STRING BACK TO HEAD END CARBON MONOXIDE PANEL. REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND WIRING DETAILS.
(P)	CEILING MOUNTED PLUG LOAD CONTROLLER.
HSS	CONTACT SENSOR FOR HVAC SHUTDOWN. 4S BOX, MOUNTED ABOVE DOOR OR WINDOW, U.O.N. STUB 3/4" C.O. 6" ABOVE CEILING SPACE. PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARD LID CEILING, PROVIDE 3/4" C.O. BACK TO LOCATION OF ASSOCIATED HVAC THERMOSTAT.
HCR	PROVIDE 4S OUTLET FOR CARD READER, STUB 3/4" C.O. 6" ABOVE CEILING SPACE. PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARD LID CEILING, PROVIDE 3/4" C.O. BACK TO LOCATION OF ASSOCIATED HEAD-END EQUIPMENT REFER TO TECHNOLOGY DRAWINGS FOR EXACT LOCATION.
HTV	TELEVISION OUTLET BOX 4S, STUB 3/4" C.O. 6" ABOVE CEILING SPACE. PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARD LID CEILING, PROVIDE 3/4" C.O. BACK TO LOCATION OF CABLE TELEVISION TERMINAL OR COMMUNICATIONS CABINET.

LIGHTING LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
FN 2AB	2'X2' RECESSED LUMINAIRE. FN INDICATES LUMINAIRE TYPE - REFER TO LUMINAIRE SCHEDULE, TYPICAL. SUBSCRIPT 2AB REFERS TO CIRCUIT AND ZONE DESIGNATION 'A' AND 'B'. TYPICAL OF ALL LIGHTING.
FNE	2'X2' RECESSED LUMINAIRE FED FROM EMERGENCY POWER SOURCE.
	CEILING MOUNTED DOUBLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)
	CEILING MOUNTED SINGLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)
Sxab	SWITCH, SINGLE POLE 20A, MOUNTED 48" A.F.F. TO TOP OF DEVICE. SUBSCRIPTS INDICATE THE FOLLOWING: M - MOTOR RATED 3 - THREE WAY 4 - FOUR WAY K - KEY OPERATED D - DIMMER SWITCH T - TIMED SWITCH a, b, c, ETC. - DESIGNATES SWITCH-LEGS CONTROLLED AND QUANTITY OF SWITCHES AT EACH LOCATION.
	OCCUPANCY SENSOR, DUAL-TECHNOLOGY, SURFACE CEILING MOUNTED. WATT STOPPER MODEL #DT-300 OR LEVITON MODEL #OSC20-M0W. PROVIDE WITH POWER PACK(S) AS REQUIRED.
	DUAL TECHNOLOGY OCCUPANCY SENSOR, SURFACE WALL MOUNTED 180° U.O.N. LEVITON MODEL #OSSMT-GD (FOR SINGLE POLE SWITCHING) & LEVITON MODEL #OSSMD-GD FOR (DUAL SWITCHING)
1AB	LOW-VOLTAGE OVERRIDE SWITCH. NUMBER INDICATES OVERRIDE SWITCH. A,B,C, ETC. DESIGNATES AREA AS SHOWN ON LIGHTING SCHEDULE.
3AB	LOW-VOLTAGE DIMMER SWITCH. MOUNTED 48" A.F.F. TO TOP OF DEVICE. "A,B,C" ETC. - DESIGNATES ZONE CONTROLLED AND QUANTITY OF ZONES AT EACH LOCATION.
	LOW-VOLTAGE OCCUPANCY SENSOR, DUAL-TECHNOLOGY, SURFACE CEILING MOUNTED INTERCONNECTED TO NETWORK LIGHTING CONTROLS.
	LOW-VOLTAGE OCCUPANCY SENSOR, DUAL-TECHNOLOGY, WALL MOUNTED AT 48" A.F.F. TO TOP OF DEVICE, INTERCONNECTED TO NETWORK LIGHTING CONTROLS.
	CEILING MOUNTED DIGITAL ROOM CONTROLLER INTERCONNECTED TO NETWORK LIGHTING CONTROLS.
	LOW-VOLTAGE DUAL ZONE PHOTOCELL SENSOR, CEILING MOUNTED INTERCONNECTED TO NETWORK LIGHTING CONTROLS.

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APPLICABLE CODES

1. 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2022 CALIFORNIA BUILDING CODE (CBC),PART 2, TITLE 24 C.C.R. (IBC WITH AMENDMENTS)
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (NEC WITH AMENDMENTS)
4. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (UMC WITH AMENDMENTS)
5. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (UPC WITH AMENDMENTS)
6. 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (IFC WITH AMENDMENTS)
7. 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
8. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
9. 2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24 C.C.R.)
10. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSG), PART 11, TITLE 24 C.C.R.

SHEET INDEX

SHEET NUMBER	SHEET TITLE
E-0.1	ELECTRICAL LEGENDS & NOTES
E-0.2	LUMINARE SCHEDULE
E-0.3	SINGLE LINE DIAGRAM
E-0.4	PANEL SCHEDULES
E-0.5	PANEL SCHEDULES
E-1.0	ELECTRICAL SITE PLAN
E-2.1	ELECTRICAL DEMOLITION PLAN - BUILDING 1A
E-2.2	ELECTRICAL DEMOLITION PLAN - BUILDING 1
E-3.1	ELECTRICAL DEMOLITION LIGHTING PLAN - BLDG 1A
E-3.2	ELECTRICAL DEMOLITION LIGHTING PLAN - BLDG 1
E-4.1	ELECTRICAL REMODEL LIGHTING PLAN - BUILDING 1A
E-4.2	ELECTRICAL REMODEL LIGHTING PLAN - BUILDING 1
E-5.1	ELECTRICAL REMODEL PLAN - BUILDING 1A
E-5.2	ELECTRICAL REMODEL PLAN - BUILDING 1
E-6.1	EMERGENCY EGRESS PHOTOMETRIC PLAN - BLDG 1A
E-6.2	EMERGENCY EGRESS PHOTOMETRIC PLAN - BLDG 1
E-7.1	ELECTRICAL DETAILS
E-7.2	LIGHTING CONTROL DETAILS
E-8.1	TITLE 24 COMPLIANCE DOCUMENTS
E-8.2	TITLE 24 COMPLIANCE DOCUMENTS

POWER LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
A-1	SUBSCRIPT "A-1" REFERS TO PANEL DESIGNATION WITH CIRCUIT NUMBER. TYPICAL OF ALL RECEPTACLE OUTLETS.
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	DOUBLE DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS, GFCI TYPE) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) WITH MOUNTING HEIGHT HORIZONTALLY ABOVE COUNTER TOP PER ARCHITECTURAL PLANS OR APPROVAL.
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS, GFCI TYPE) WITH MOUNTING HEIGHT HORIZONTALLY ABOVE COUNTER TOP PER ARCHITECTURAL PLANS OR APPROVAL.
	CA TITLE 24 COMPLIANT DUPLEX RECEPTACLE OUTLET, HALF-CONTROLLED, CONVENIENCE, WITH PERMANENT MARKING. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	CA TITLE 24 COMPLIANT DOUBLE DUPLEX RECEPTACLE OUTLET, HALF-CONTROLLED, CONVENIENCE, WITH PERMANENT MARKING. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N

LUMINAIRE SCHEDULE

TYPE	VOLTS	WATTS	LUMENS	LAMPS	COLOR	MOUNTING	FIXTURE DESCRIPTION	MFR.	CATALOG #	NOTES
F1	UNV	17	2,426	LED	3500K	RECESSED	2'X2 RECESSED LED FIXTURE WITH 0-10V DIMMING.	PINNACLE	#TR22-W-835LO-G1-2-FSD-1-0-W	
F1E	UNV	17	2,426	LED	3500K	RECESSED	2'X2 RECESSED LED FIXTURE WITH 0-10V DIMMING WITH 90 MIN EMERGENCY BATTERY BACKUP	PINNACLE	#TR22-W-835LO-G1-2-FSD-1-0-W-FSB	
F1B	UNV	28	3,836	LED	3500K	RECESSED	2'X2 RECESSED LED FIXTURE WITH 0-10V DIMMING.	PINNACLE	#TR22-W-835MO-G1-2-FSD-1-0-W	
F1BE	UNV	28	3,836	LED	3500K	RECESSED	2'X2 RECESSED LED FIXTURE WITH 0-10V DIMMING WITH 90 MIN EMERGENCY BATTERY BACKUP	PINNACLE	#TR22-W-835MO-G1-2-FSD-1-0-W-FSB	
F1A	UNV	38	2,611	LED	3500K	RECESSED	2'X2 RECESSED LED FIXTURE WITH 0-10V DIMMING.	ALIGHT	#LEAN-1-LS-35-80-U-D	
F1AE	UNV	38	2,611	LED	3500K	RECESSED	2'X2 RECESSED LED FIXTURE WITH 0-10V DIMMING WITH 90 MIN EMERGENCY BATTERY BACKUP	ALIGHT	#LEAN-1-LS-35-80-U-D-E	
F2	UNV	20	2,000	LED	3500K	RECESSED	4" SQUARE RECESSED DOWNLIGHT WITH 0-10V DIMMING	3G LIGHTING	#3G-DL40SF-20-H95-35K-90D-UNV-DIM-WT	
F2E	UNV	20	2,000	LED	3500K	RECESSED	4" SQUARE RECESSED DOWNLIGHT WITH 0-10V DIMMING FED WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY PACK	3G LIGHTING	#3G-DL40SF-20-H95-35K-90D-UNV-DIM-WT-EMB	
F2A	UNV	14	1,500	LED	3500K	RECESSED	4" SQUARE RECESSED DOWNLIGHT WITH 0-10V DIMMING	3G LIGHTING	#3G-DL40SF-15-H95-35K-90D-UNV-DIM-WT	
F2AE	UNV	14	1,500	LED	3500K	RECESSED	4" SQUARE RECESSED DOWNLIGHT WITH 0-10V DIMMING FED WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY PACK	3G LIGHTING	#3G-DL40SF-15-H95-35K-90D-UNV-DIM-WT-EMB	
F3	UNV	44	5,352	LED	3500K	RECESSED	8' LONG RECESSED LED LINEAR LIGHT FIXTURE WITH 0-10V DIMMING	CORONET	#LSR2-8-35-MED-UNV-DB-W	
F4	UNV	55	6,690	LED	3500K	RECESSED	10' LONG RECESSED LED LINEAR LIGHT FIXTURE WITH 0-10V DIMMING	CORONET	#LSR2-10-35-MED-UNV-DB-W	
F5	UNV	66	8,028	LED	3500K	RECESSED	12' LONG RECESSED LED LINEAR LIGHT FIXTURE WITH 0-10V DIMMING	CORONET	#LSR2-12-35-MED-UNV-DB-W	
F6	UNV	33	4,014	LED	3500K	RECESSED	6' LONG RECESSED LED LINEAR LIGHT FIXTURE WITH 0-10V DIMMING	CORONET	#LSR2-6-35-MED-UNV-DB-W	
F7	UNV	22	2,424	LED	3500K	WALL	4'-0" LED PERIMETER LIGHTING WITH 0-10V DIMMING	CORONET	#PG4-4-35-LOW-UNV-DB	
F8	UNV	24	3,000	LED	3500K	PENDANT	PENDANT48" SOFT ANGLE LED LIGHT FIXTURE	OCL ARCHITECTURAL LIGHTING	#RV3S-P1EM-TRS-48-MW-BAL-LED1/35K-UNV-48-DM1	
F9A	UNV	53	3,180	LED	3500K	PENDANT	PENDANT 60" ROUND LED LIGHT FIXTURE	OCL ARCHITECTURAL LIGHTING	#SE1-P1SB-48-MW-LED-35K-UNV	
F9B	UNV	80	4,800	LED	3500K	PENDANT	PENDANT72" SQUARE LED LIGHT FIXTURE	OCL ARCHITECTURAL LIGHTING	#SE1-P1SB-72-MW-LED-35K-UNV	
F10	UNV	1.5W/FT	155/FT	LED	3500K	WALL	SURFACE MOUNTED LED UNDERCABINET TAPELIGHT. REFER TO LIGHTING PLAN FOR LENGTHS	LLI ARCHITECTURAL LIGHTING	#LLI-ANG-WC-1W/FT-35K-24V	CONTRACTOR TO PROVIDE ALL MOUNTING HARDWARE. MOUNT LIGHT UNDER MILLWORK. REFER TO ARCHITECTURAL ELEVATIONS FOR DETAILS
F11	120V	16	1,183	LED	3500K	RECESSED	FLUSH MOUNT ROUND LED LIGHT FIXTURE WITH 0-10V DIMMING	KUZCO LIGHTING	# QUARA FM7-251-WH	
F12	UNV	12	1,500	LED	3500K	RECESSED	ROUND RECESSED LED DOWNLIGHT WITH 0-10V DIMMING	3G LIGHTING	#3G-DL45RF-15-H95-35K-90D-UNV-DIM-WT	
F12E	UNV	12	1,500	LED	3500K	RECESSED	6" RECESSED LED DOWNLIGHT WITH 0-10V DIMMING AMD 90 MINUTE EMERGENCY BATTERY BACKUP.	ALPHABET LIGHTING	#NU6-RD-SW15LM--35K-80-CL-WH-RET-UNV-EM12	
F13	UNV	3	161	LED	3500K	RECESSED	MINI LED DOWNLIGHT WITH LOW VOLTAGE POWER SUPPLY	TARGETTI	#JMD-R-SP-L2-35-24-SS POWER SUPPLY: #DMLE301242UD	
F14A	UNV	5/WF	433/LF	LED	3500K	RECESSED	RECESSED LINEAR WALL WASH LED LIGHT FIXTURE WITH END CAPS. LENGTH PER LIGHTING PLANS	FLUXWERX	#NT1-L-P1-G1-A-35-F2-M-44	
F14B	UNV	5/WF	433/LF	LED	3500K	RECESSED	RECESSED LINEAR WALL WASH LED LIGHT FIXTURE WITH END CAPS. LENGTH PER LIGHTING PLANS	FLUXWERX	#NT1-L-P1-G1-A-35-F2-M-6	
F15A	UNV	4.4/WF	309/LF	LED	3500K	CEILING	SURFACE MOUNTED BLUE LED TAPE ASYMMETRIC LIGHT. REFER TO LIGHTING PLAN FOR LENGTHS	INSIGHT LIGHTING	CO-PILOT WASH #CPW-B-ASY-1260" POWER SUPPLY: CEL-96-DIM	CONTRACTOR TO PROVIDE ALL MOUNTING HARDWARE. REFER TO ARCHITECTURAL ELEVATIONS FOR DETAILS
F15B	UNV	5/WF	309/LF	LED	3500K	CEILING	SURFACE MOUNTED WHITE LED TAPE 30 DEGREE LIGHT. REFER TO LIGHTING PLAN FOR LENGTHS	INSIGHT LIGHTING	CO-PILOT FLAT #CPF-SO-35K-115" POWER SUPPLY: CEL-96-DIM	CONTRACTOR TO PROVIDE ALL MOUNTING HARDWARE. REFER TO ARCHITECTURAL ELEVATIONS FOR DETAILS
F15C	UNV	5/WF	309/LF	LED	3500K	CEILING	SURFACE MOUNTED WHITE LED TAPE 30 DEGREE LIGHT. REFER TO LIGHTING PLAN FOR LENGTHS	INSIGHT LIGHTING	CO-PILOT FLAT #CPF-SO-35K-115" POWER SUPPLY: CEL-96-DIM	CONTRACTOR TO PROVIDE ALL MOUNTING HARDWARE. MOUNT LIGHT UNDER CASEWORK. REFER TO ARCHITECTURAL ELEVATIONS FOR DETAILS
X1	UNV	1	-	LED	3500K	CEILING	CEILING MOUNTED THERMOPLASTIC EMERGENCY EXIT SIGN FIXTURE. FACE NUMBER & ARROW DIRECTION PER PLANS	LITHONIA	LQM-S-W-3-R-MVOLT	

LUMINAIRE SCHEDULE NOTES

1. EQUALS SHALL BE CONSIDERED UPON SUBMITTAL REVIEW AND APPROVAL. PLEASE NOTE THAT IF AN ALTERNATE IS CONSIDERED:
   a. THE CONTRACTOR IS COMPLETELY AND SOLELY RESPONSIBLE FOR ALL ASPECTS OF THE SUBSTITUTION INCLUDING UPDATING CONSTRUCTION DOCUMENTS, OBTAINING APPROVALS AND PERMITS FROM LOCAL AUTHORITY, AND COORDINATING WITH ALL TRADES TO ENSURE CHANGES TO AFFECTED BUILDING SYSTEM ARE ACCOUNTED FOR AND ACCEPTABLE TO THE ENGINEERING TEAM. CONTRACTOR SHALL ENSURE SUBSTITUTED EQUIPMENT MEETS OR EXCEEDS DESIGN INTENT REGARDING RATINGS, PERFORMANCE, DIMENSIONAL CLEARANCES, PHYSICAL DIMENSIONS (MAX/MIN), WEIGHT LIMITATIONS, AND OTHER ASPECTS, PROVING SUBSTITUTION IS SUITABLE TO THE APPLICATION. ENGINEERS WILL REVIEW THE RATING AND PERFORMANCE OF SUBSTITUTED EQUIPMENT ONLY AND WILL NOT ASSUME RESPONSIBILITY FOR SUBSTITUTION AT ANY LEVEL.
   b. IF CONTRACTOR CANNOT MAKE SUBSTITUTED EQUIPMENT WORK IN THIS PROJECT, CONTRACTOR SHALL REVERT TO REQUIREMENTS OF PERMITTED CONSTRUCTION DOCUMENTS AT THEIR EXPENSE.
   c. IT IS UNDERSTOOD BY ALL PARTIES THAT ANY SUBSTITUTIONS OF SPECIFIED PRODUCTS ARE DONE FOR THE PURPOSE OF COST SAVINGS TO THE OWNER. THEREFORE, ANY MATERIAL SUBSTITUTION OR DEVIATIONS PROPOSED BY THE CONTRACTOR SHALL BE INCLUDED WITH THE INITIAL BID AND SHALL SHOW A LINE ITEMS CREDIT TO THE OWNER FOR EACH SUBSTITUTION IN LIEU OF SPECIFIED PRODUCTS.
   d. CONTRACTOR SHALL PROVIDE A POINT BY POINT PHOTOMETRIC STUDY FOR ALL AREAS WHERE ALTERNATE FIXTURES ARE SUBMITTED. LIGHT LEVELS WILL BE REVIEWED FOR COMPLIANCE WITH PROJECT REQUIREMENTS AND BASIS OF DESIGN VALUES.
2. THE FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTION OF LIGHTING FIXTURES AND MANUFACTURERS CATALOG NUMBERS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE CORRECT CEILING CONFIGURATION AND PROVIDE THE FIXTURES WITH ALL NECESSARY TRIMS AND MOUNTING HARDWARE SO THAT BOTH THE CEILING SYSTEM AND THE FIXTURE CONSTRUCTION MATCHES. PROVIDE SEISMIC HANGERS AS REQUIRED.
3. IT SHALL BE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES AND TYPE OF CEILING WITH ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ANY WORK. SEE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ANY WORK. SEE ARCHITECTURAL ELEVATION DRAWING FOR MOUNTING HEIGHTS OF WALL MOUNTED FIXTURES.
4. A JUNCTION BOX MUST BE PROVIDED WITH ALL EXIT LIGHTS CONNECTED TO MORE THAN ONE SET OF CONDUCTORS UNLESS THE EXIT LIGHT FIXTURE IS FURNISHED WITH AN APPROVED OUTLET BOX FOR THROUGH WIRING.
5. A COMPLETE TITLE 24 COMPLIANT LIGHTING CONTROL SYSTEM SHALL BE PROVIDED TO CONTROL ALL INTERIOR AND EXTERIOR LIGHTING SYSTEMS. REFER TO LIGHTING CONTROL DIAGRAMS, SCHEDULES AND DETAILS.
6. PROVIDE ALL REQUIRED MOUNTING HARDWARE ANCHORAGE AND SUPPORTS TO INSTALL LIGHTING FIXTURES.
7. PROVIDE SWIVEL BASE AND STEMS. LENGTHS AS REQUIRED TO MOUNT THE PENDANT MOUNTED FIXTURES. THE INSTALLATION SHALL COMPLY WITH TITLE 24 SEISMIC AND APPLICABLE UBC REQUIREMENTS.
8. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE LIGHTING SYSTEM AS PART OF THIS BUILDING CONTRACT.
9. SUSPENSION SYSTEM FOR LIGHT FIXTURES WHICH HAVE PASSED SHAKING TABLE TESTS APPROVED BY THE OFFICE OF THE STATE OF ARCHITECT, OR WHICH, AS INSTALLED, ARE FREE TO SWING A MINIMUM OF 45° FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS. SHALL BE ASSUMED TO COMPLY WITH THE LATERAL FORCE REQUIREMENTS FOR SECTION 2305, PART 2, TITLE 24, CCR, UNLESS OF THE CABLE TYPE FREE SWING SUSPENSION SYSTEM SHALL HAVE A SAFETY WIRE OR CABLE ATTACHED TO THE FIXTURE AND STRUCTURE AT EACH SUPPORT CAPABLE OF SUPPORTING FOUR TIMES THE SUPPORTED LOAD.
10. FOR SUSPENDED AND SURFACE MOUNTED LIGHT FIXTURES, THE PRODUCT OF ICP NEED NOT EXCEED 12 FOR ANY VALUE OF 1.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE FIXTURE BALLAST OR DRIVER VOLTAGE MATCHES THE CIRCUIT VOLTAGE SUPPLYING FIXTURE PRIOR TO ORDERING.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY BALLAST/DRIVER DIMMING CONFIGURATION IS COMPATIBLE WITH CONTROLS BEING PROVIDED PRIOR TO ORDERING FIXTURES. EX. 2 WIRE, 3 WIRE, 4 WIRE, 0-10V, CAT 5, ETC.
13. LED LIGHT FIXTURES SHALL BE IN ACCORDANCE WITH IES, NFPA, UL, AS SHOWN ON THE DRAWINGS, AND AS SPECIFIED.
14. LED LIGHT FIXTURES SHALL BE REDUCTION OF HAZARDOUS SUBSTANCES (ROHS)-COMPLIANT.
15. LED DRIVERS SHALL INCLUDE THE FOLLOWING FEATURES UNLESS OTHERWISE INDICATED:
    - MINIMUM EFFICIENCY: 85% AT FULL LOAD.
    - MINIMUM OPERATING AMBIENT TEMPERATURE: -20 DEG C. (-4 DEG F.)
    - INPUT VOLTAGE: 120 - 277V (±10%) AT 60 HZ., UNLESS OTHERWISE INDICATED.
    - INTEGRAL SHORT CIRCUIT, OPEN CIRCUIT, AND OVERLOAD PROTECTION.
    - POWER FACTOR: >=0.95.
    - TOTAL HARMONIC DISTORTION: <=20%.
    - COMPLY WITH FCC 47 CFR PART 15.
18. LED MODULES SHALL INCLUDE THE FOLLOWING FEATURES UNLESS OTHERWISE INDICATED:
    - COMPLY WITH IES LM-79 AND LM-80 REQUIREMENTS.
    - MINIMUM CRI 80 AND COLOR TEMPERATURE 4000K UNLESS OTHERWISE SPECIFIED IN LUMINAIRE SCHEDULE.
    - MINIMUM RATED LIFE: 50,000 HOURS PER IES L70.
    - LIGHT OUTPUT LUMENS AS INDICATED IN THE LUMINAIRE SCHEDULE.
19. LED DOWNLIGHTS:
    - HOUSING, LED DRIVER, AND LED MODULE SHALL BE PRODUCTS OF THE SAME MANUFACTURER.
20. LED TROFFERS:
    - LED DRIVERS, MODULES, AND REFLECTOR SHALL BE ACCESSIBLE, SERVICEABLE, AND REPLACEABLE FROM BELOW THE CEILING.
    - HOUSING, LED DRIVER, AND LED MODULE SHALL BE PRODUCTS OF THE SAME MANUFACTURER.
21. ALL REMOTE DRIVERS SHALL BE CONCEALED ABOVE CEILING OR PLACED IN A REMOTE LOCATION WHEN ATTIC SPACE IS NOT AVAILABLE.

LIGHTING CONTROLS SEQUENCE OF OPERATIONS

LIGHT CONTROLS SHALL PERFORM AS FOLLOWS:

ZONE	DELAY TO OFF (MIN)	ON/OFF METHOD	TECHNOLOGY	DAYLIGHTING	NOTES
RESTROOMS	5	AUTO ON/AUTO OFF	DUAL	N/A	TUNE FOR NOISE. DO NOT LOCATE NEAR AIR VENTS
PRIVATE OFFICE	10	AUTO ON TO 50%/MANUAL ON TO 100%/AUTO OFF	DUAL	DIM TO ALLOW 30 FC ON WORK SURFACE	
OPEN OFFICE	15	AUTO ON/AUTO OFF	DUAL	DIM TO ALLOW 35 FC ON WORK SURFACE	
CONFERENCE ROOM	15	AUTO ON/AUTO OFF	DUAL	DIM TO ALLOW 35 FC ON WORK SURFACE	
BREAK ROOM	15	AUTO ON/AUTO OFF	DUAL	DIM TO ALLOW 30 FC ON WORK SURFACE	
CORRIDORS	15	TIME CLOCK ON/OFF. DIM TO 50% AFTER DELAY	DUAL	DIM TO ALLOW 10 FC ON WORK SURFACE	
LOBBY	15	AUTO ON/AUTO OFF	DUAL	DIM TO ALLOW 20 FC ON WORK SURFACE	
CLASSROOM	15	AUTO ON/AUTO OFF	DUAL	DIM TO ALLOW 40 FC ON WORK SURFACE	

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COUNTY OF RIVERSIDE
FLOOD CONTROL

1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
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REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/26
2	BID ADDENDUM #02	04/17/26

REGISTERED PROFESSIONAL ENGINEER — BRANDON K. KEMPTON — 22839 — ELECTRICAL — STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:
LUMINARE SCHEDULE

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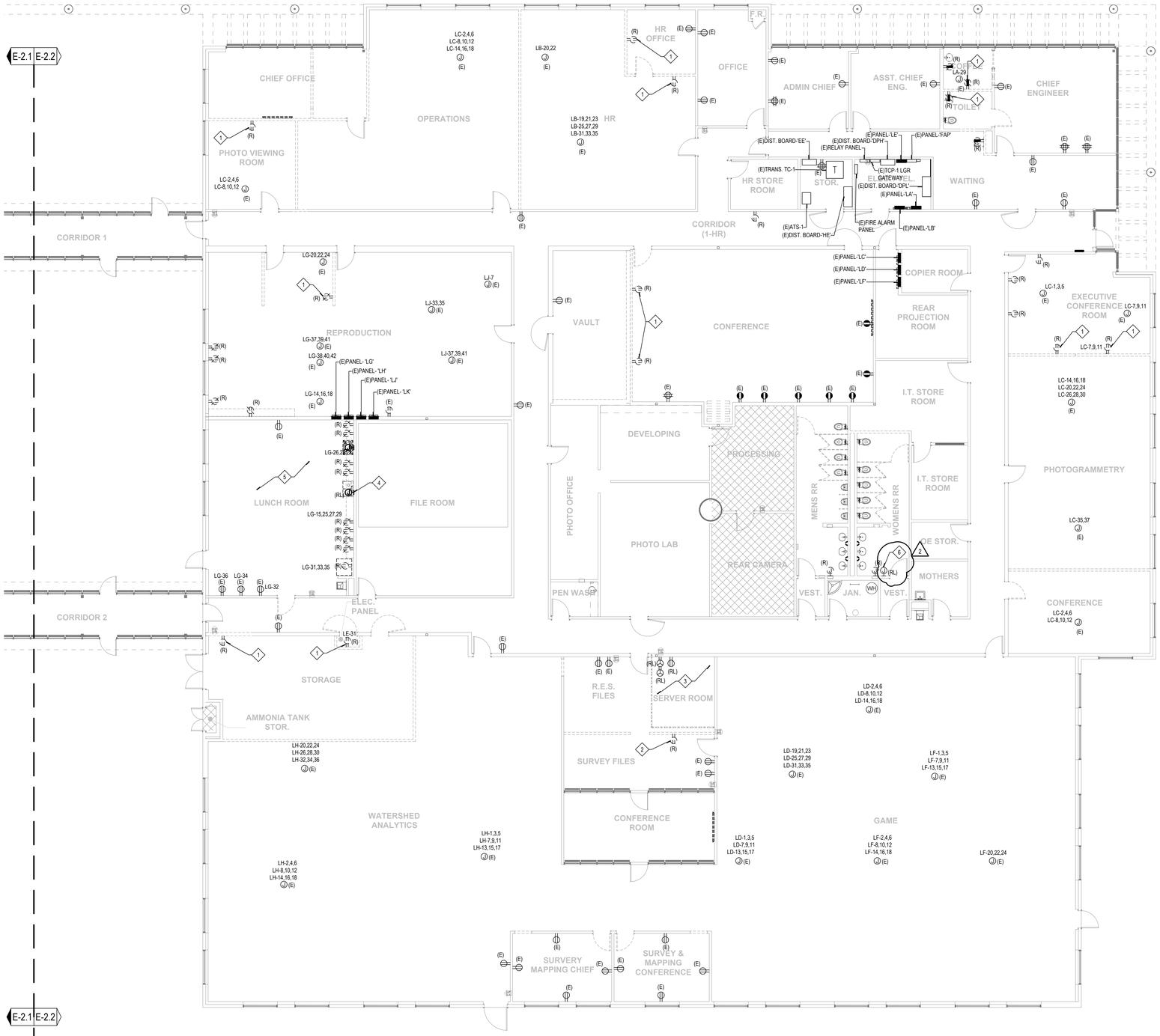

GENERAL NOTES

1. REFER TO ELECTRICAL LEGENDS AND NOTES SHEET FOR ADDITIONAL DEMOLITION NOTES.
2. CONTRACTOR IS TO USE EXTREME CAUTION WHEN STARTING THE DEMOLITION WORK. THERE ARE MULTIPLE SERVICES FEEDING THIS WORK AREA. CONTRACTOR SHALL MAKE THEIR DUE DILIGENCE IN SOURCE TRACING ALL EXISTING EQUIPMENT, DISCONNECTS AND CIRCUITS ENTERING AND LEAVING THIS AREA. CONTRACTOR SHALL LABEL ALL CONDUITS WITH THEIR SOURCE LOCATION IF CONDUITS ARE TO REMAIN. ANY CIRCUITS BEING REMOVED SHALL HAVE ITS SOURCE CORRECTLY LABELED AS 'SPARE' AND SAFE-OFF CIRCUIT BREAKER. ANY CIRCUITS THAT REMAIN ARE TO BE REDLINED AND ADDED TO AS-BUILTS.
3. CONTRACTOR IS TO REMOVE EXISTING RECEPTACLES LOCATED ON WALL BEING DEMO'ED WITH ASSOCIATED CONDUIT AND CONDUCTORS BACK TO NEAREST JUNCTION BOX.

DEMOLITION NOTES

1. CONTRACTOR IS TO DEMO EXISTING RECEPTACLE OUTLET AS SHOWN. REMOVE CONDUIT AND CONDUCTORS BACK TO NEAREST JUNCTION BOX TO REMAIN.
2. CONTRACTOR IS TO DEMO EXISTING RECEPTACLE OUTLET AS SHOWN. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
3. CONTRACTOR IS TO REMOVE AND RELOCATED ALL EXISTING RECEPTACLES FEEDING EXISTING SERVER EQUIPMENT AND ALL ELECTRICAL APPARATUS. VERIFY EXACT LOCATION WITH OWNER PRIOR TO REINSTALLATION.
4. EXISTING GARBAGE DISPOSAL TO BE REMOVED AND REPLACED WITH NEW FIXTURE. EXISTING CONDUIT TO REMAIN & REWORKED FOR CONNECTION TO NEW FIXTURE.
5. EXISTING KITCHEN COUNTER RECEPTACLE TO BE REMOVED AND REPLACED WITH NEW RECEPTACLES. EXISTING CONDUIT AND CIRCUIT TO REMAIN & REWORKED FOR CONNECTION TO NEW RECEPTACLES.
6. CONTRACTOR IS TO RELOCATE EXISTING DOOR PUSH BUTTON. EXTEND EXISTING CIRCUIT TO NEW LOCATION. REFER TO REMODEL FLOOR PLAN FOR NEW LOCATION.

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REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:
ELECTRICAL DEMOLITION PLAN - BUILDING 1

SHEET NUMBER:
E-2.2

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ELECTRICAL DEMOLITION PLAN - BUILDING 1 | SCALE : 1/8" = 1'-0" | 1

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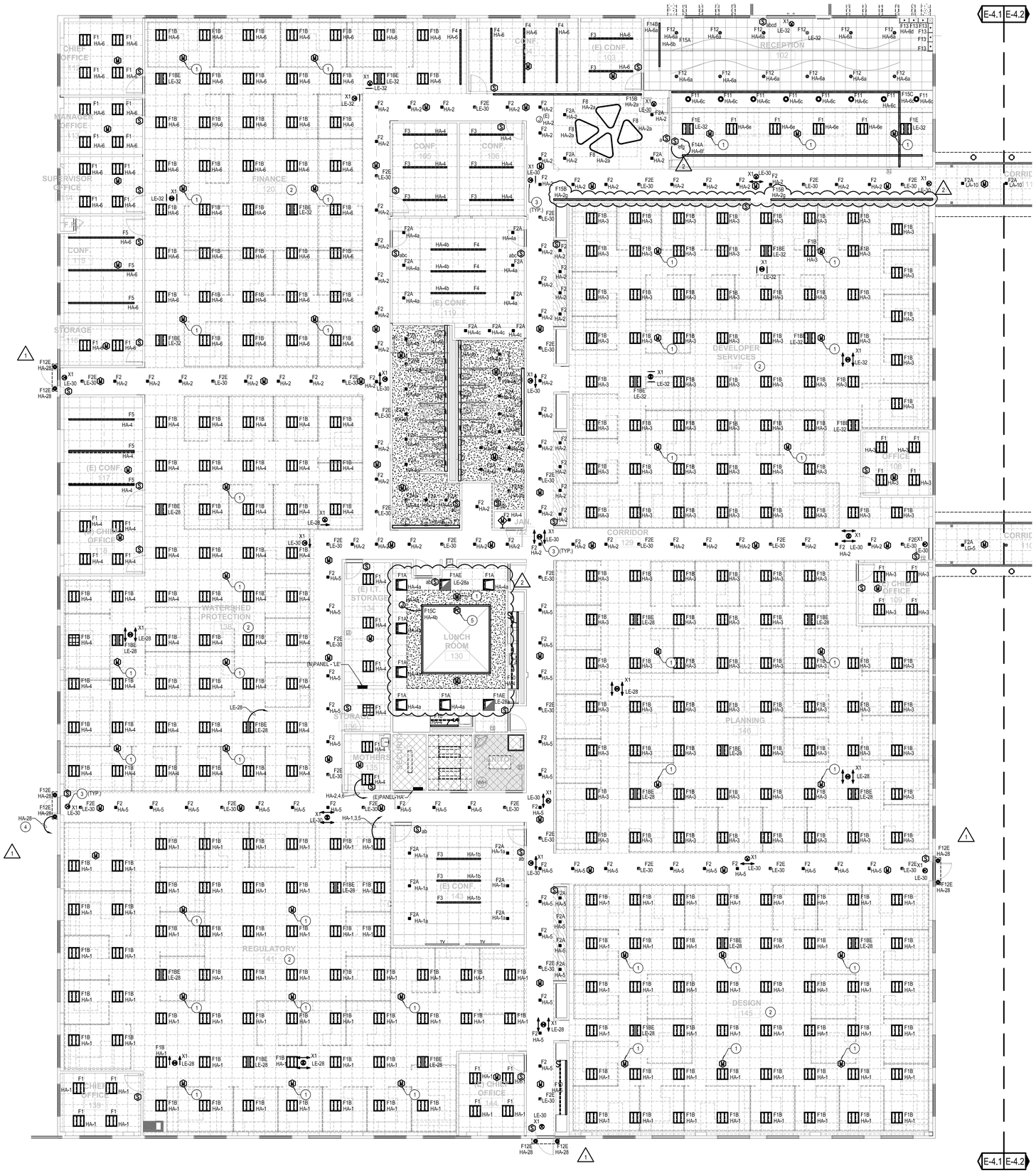

GENERAL NOTES

1. COORDINATE LIGHT FIXTURE LOCATIONS AND LIGHT SWITCH LOCATIONS, COLOR, AND STYLE WITH ARCHITECT.
2. WHERE OCCUPANCY SENSORS ARE SHOWN ON PLANS, VERIFY WATTAGE AND COVERAGE OF PRODUCT PROVIDED IS ADEQUATE FOR SPACE TO BE CONTROLLED. COVERAGE IS TO BE ADJUSTED TO AVOID ACCIDENTAL ACTIVATION OUTSIDE OF AREA. VERIFY WIRING REQUIREMENTS TO ADDITIONAL SENSORS, ROOM CONTROLLERS, RELAY PACKS, ETC WITH PRODUCT BEING PROVIDED. OCCUPANCY SENSORS SHALL NOT BE LOCATED WITHIN FOUR FEET OF ANY HVAC DIFFUSER.
3. REFER TO LIGHTING CONTROL DETAILS FOR WIRING AND CONDUIT REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL WIRING AND CONDUITS REQUIRE BY MANUFACTURER TO FIXTURES AND CONTROLS.
4. FINAL MOUNTING LOCATIONS OF ALL OCCUPANCY AND PHOTOCELL DEVICES SHALL COORDINATED WITH MANUFACTURERS RECOMMENDATIONS AND FIELD ADJUSTED WITH REPRESENTATIVE AS NECESSARY.
5. CONTRACTOR SHALL INSPECT EACH CONDUCTOR FOR CORRECT IDENTIFICATION AND INSPECT CABLE JACKET AND CONDITION. CONTRACTOR SHALL PROVIDE CONTINUITY AND INSULATION-RESISTANCE TESTING FOR ALL EXISTING CONDUCTORS TO BE REUSED. CONTRACTOR SHALL REPLACE ANY CONDUCTORS THAT DO NOT PASS TESTING AND INSPECTION.

CONSTRUCTION NOTES

1. INTERCONNECT TO OTHER MOTION SENSOR(S) IN SAME ROOM. REFER TO LIGHTING CONTROL DIAGRAMS ON SHEET E7.2.
2. TOTAL INSTALLED WATTS IN PRIMARY SIDELIT DAYLIT ZONE IN THIS SPACE DOES NOT EXCEED 120 WATTS, THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE NOT REQUIRED. SECTION 130.1(D)2.
3. PROVIDE NON-SWITCHED 'HOT' POWER WIRE TO EXIT SIGN FIXTURE.
4. ROUTE CIRCUIT VIA EXISTING TIMECLOCK.
5. PROVIDE LOW-VOLTAGE PHOTOCELL INTERCONNECTED TO LIGHTING CONTROL SYSTEM IN SPACE.

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REGISTERED PROFESSIONAL ENGINEER
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REGISTRATION/SIGNATURE:

SHEET TITLE:

ELECTRICAL REMODEL LIGHTING PLAN - BUILDING 1A

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ELECTRICAL REMODEL LIGHTING PLAN - BUILDING 1A | SCALE: 1/8" = 1'-0" | 1

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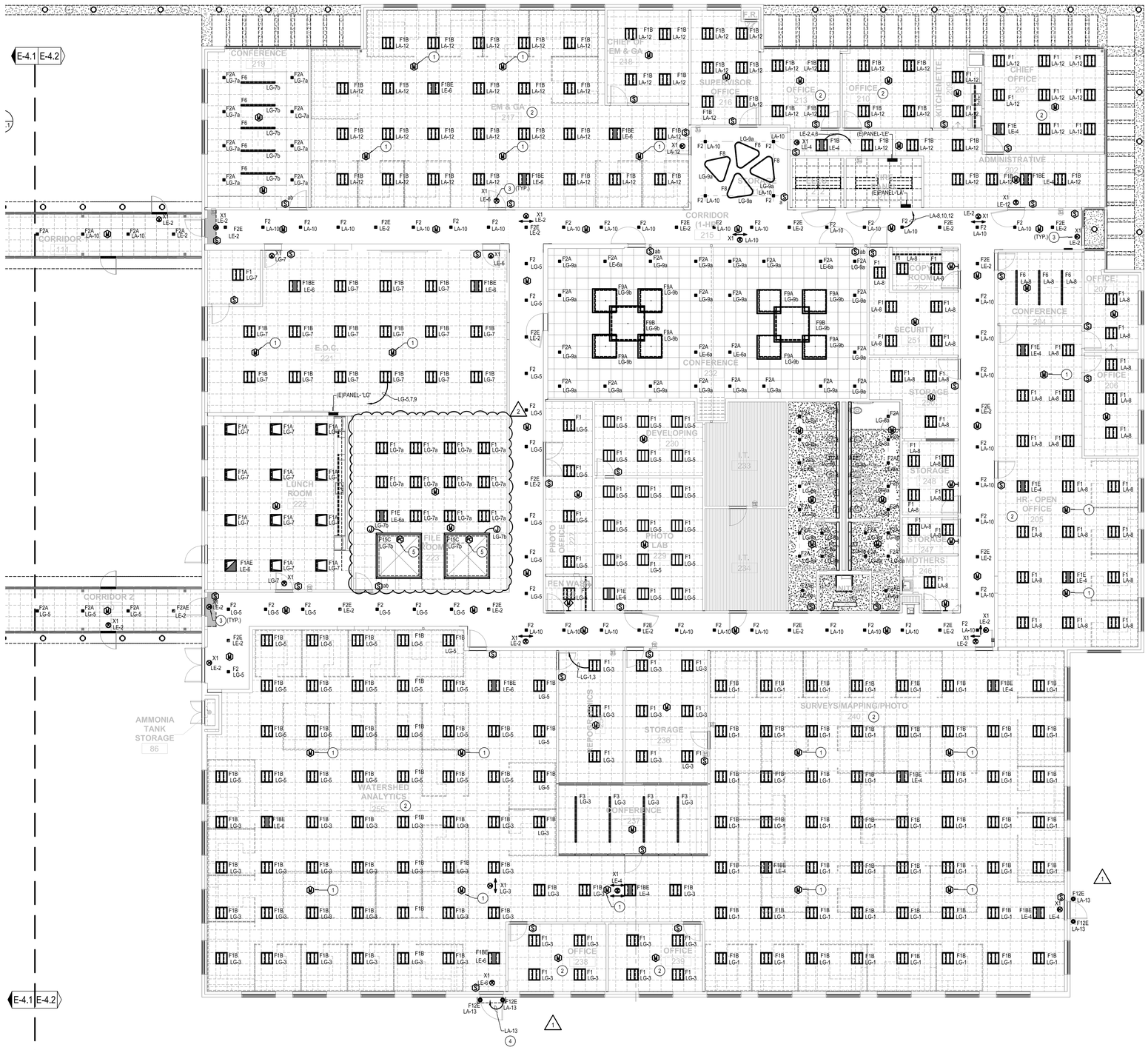

GENERAL NOTES

1. COORDINATE LIGHT FIXTURE LOCATIONS AND LIGHT SWITCH LOCATIONS, COLOR, AND STYLE WITH ARCHITECT.
2. WHERE OCCUPANCY SENSORS ARE SHOWN ON PLANS, VERIFY WATTAGE AND COVERAGE OF PRODUCT PROVIDED IS ADEQUATE FOR SPACE TO BE CONTROLLED. COVERAGE IS TO BE ADJUSTED TO AVOID ACCIDENTAL ACTIVATION OUTSIDE OF AREA. VERIFY WIRING REQUIREMENTS TO ADDITIONAL SENSORS, ROOM CONTROLLERS, RELAY PACKS, ETC WITH PRODUCT BEING PROVIDED. OCCUPANCY SENSORS SHALL NOT BE LOCATED WITHIN FOUR FEET OF ANY HVAC DIFFUSER.
3. REFER TO LIGHTING CONTROL DETAILS FOR WIRING AND CONDUIT REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL WIRING AND CONDUITS REQUIRE BY MANUFACTURER TO FIXTURES AND CONTROLS.
4. FINAL MOUNTING LOCATIONS OF ALL OCCUPANCY AND PHOTOCELL DEVICES SHALL COORDINATED WITH MANUFACTURERS RECOMMENDATIONS AND FIELD ADJUSTED WITH REPRESENTATIVE AS NECESSARY.
5. CONTRACTOR SHALL INSPECT EACH CONDUCTOR FOR CORRECT IDENTIFICATION AND INSPECT CABLE JACKET AND CONDITION. CONTRACTOR SHALL PROVIDE CONTINUITY AND INSULATION-RESISTANCE TESTING FOR ALL EXISTING CONDUCTORS TO BE REUSED. CONTRACTOR SHALL REPLACE ANY CONDUCTORS THAT DO NOT PASS TESTING AND INSPECTION.

CONSTRUCTION NOTES

1. INTERCONNECT TO OTHER MOTION SENSOR(S) IN SAME ROOM. REFER TO LIGHTING CONTROL DIAGRAMS ON SHEET E7.2.
2. TOTAL INSTALLED WATTS IN PRIMARY SIDELIT DAYLIT ZONE IN THIS SPACE DOES NOT EXCEED 120 WATTS, THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE NOT REQUIRED. SECTION 130.1(D)2.
3. PROVIDE NON-SWITCHED 'HOT' POWER WIRE TO EXIT SIGN FIXTURE.
4. ROUTE CIRCUIT VIA EXISTING TIMECLOCK.
5. PROVIDE LOW-VOLTAGE PHOTOCELL INTERCONNECTED TO LIGHTING CONTROL SYSTEM IN SPACE.

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COUNTY OF RIVERSIDE
FLOOD CONTROL

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REGISTERED PROFESSIONAL ENGINEER — BRADLEN KLAMSTEIN — 22839 — ELECTRICAL — STATE OF CALIFORNIA

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ELECTRICAL REMODEL LIGHTING PLAN - BUILDING 1 | SCALE: 1/8" = 1'-0" | 1

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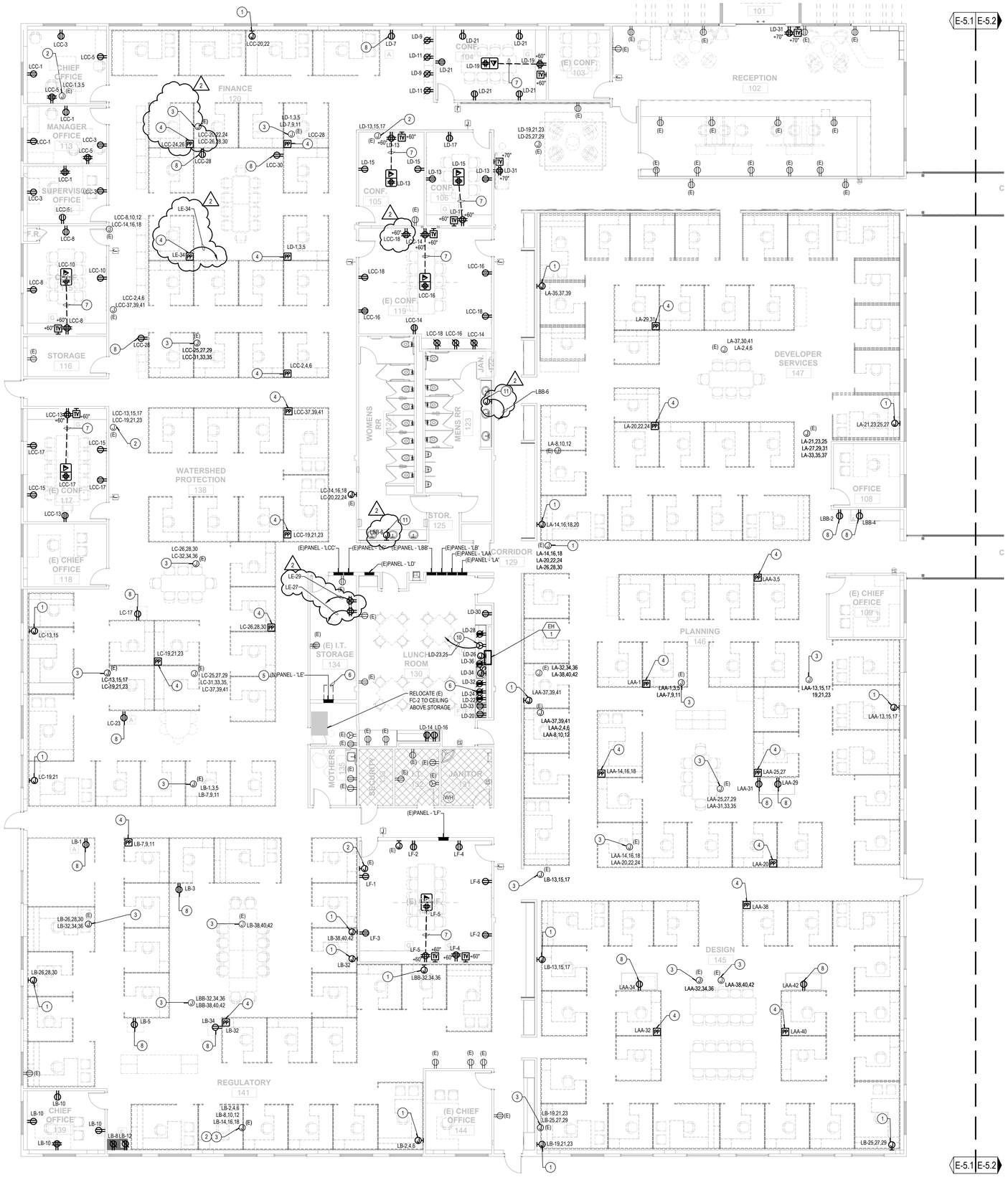

GENERAL NOTES

1. COORDINATE POWER AND DATA DEVICE LOCATIONS, AND DEVICE PLATE COLOR WITH ARCHITECT.
2. REFER TO MECHANICAL AND PLUMBING PLANS FOR THE EXACT LOCATION OF HVAC EQUIPMENT AND ADDITIONAL WIRING REQUIREMENTS.
3. PROVIDE DUCT DETECTOR POWER AND CONNECTIONS AS INDICATED ON MECHANICAL DRAWINGS.
8. PROVIDE 3/4" CONDUIT FOR ELECTRICAL CIRCUITS U.O.N..
9. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUITS REQUIRED FOR ALL BRANCH CIRCUIT AND FEEDERS FOR CIRCUIT SIZES NOT SHOWN, REFER TO PANEL SCHEDULES FOR CONDUCTOR AND CONDUIT SIZES.
10. EXCEPT FOR THE HOMERUN INDICATION, CONDUIT AND WIRING SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE THE NUMBER OF CONDUCTORS REQUIRED FOR HOT LEGS, NEUTRAL AND GROUNDING AT EACH DEVICE FOR PROPER BRANCH CIRCUITING.
11. ALL 125 AND 250-VOLT, 15- AND 20-AMPERE NONLOCKING TYPE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES IN AREAS SPECIFIED IN NEC 406.12.
12. ALL ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED WITH NAMEPLATES, REFER. TO SPECIFICATIONS. IN ADDITION, EACH DISCONNECT MUST BE MARKED TO IDENTIFY ITS PURPOSE AND INCLUDE IDENTIFICATION OF CIRCUIT SOURCE THAT SUPPLIES DISCONNECTING MEANS. (110.22)
13. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS.
14. CONTRACTOR SHALL INSPECT EACH CONDUCTOR FOR CORRECT IDENTIFICATION AND INSPECT CABLE JACKET AND CONDITION. CONTRACTOR SHALL PROVIDE CONTINUITY AND INSULATION-RESISTANCE TESTING FOR ALL EXISTING CONDUCTORS TO BE REUSED. CONTRACTOR SHALL REPLACE ANY CONDUCTORS THAT DO NOT PASS TESTING AND INSPECTION.

CONSTRUCTION NOTES

1. PROVIDE SYSTEMS FURNITURE POWER AND DATA JUNCTION BOXES AND WHIPS (PIGTAILS) PER FURNITURE MANUFACTURER. VERIFY LOCATIONS WITH FURNITURE DRAWINGS AND INSTALLER PRIOR TO ROUGH-IN.
2. CONTRACTOR IS TO INTERCEPT EXISTING CEILING JUNCTION BOX AND EXTEND TO NEW RECEPTACLES AS SHOWN. CONTRACTOR IS TO CONNECT CONDUCTORS TO NEW RECEPTACLE AND EXTEND TO EXISTING RECEPTACLE(S) TO ENSURE ALL EXISTING RECEPTACLE(S) REMAIN ENERGIZED.
3. CONTRACTOR IS TO INTERCEPT EXISTING CEILING JUNCTION BOX AND EXTEND TO NEW SYSTEM FURNITURE AS SHOWN. PROVIDE ALL CONDUIT, CONDUCTORS AND JUNCTION BOXES FOR A COMPLETE AND OPERABLE SYSTEM.
4. PROVIDE J-BOX IN CEILING AND ROUTE POWER/DATA DOWN THROUGH POWER POLE. PROVIDE SYSTEMS FURNITURE POWER AND DATA JUNCTION BOXES AND WHIPS (PIGTAILS) PER FURNITURE MANUFACTURER.
5. PROVIDE NEW 42 CKT. RECESSED PANEL IN WALL. VERIFY AND COORDINATE WITH ARCHITECT 6" WALL HAS BEEN PROVIDED.
6. PROVIDE MINIMUM 3'-0" LEVEL CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT, PER NEC 110.26.
7. SAWCUT EXISTING CONCRETE FLOOR FOR RUNNING OF POWER AND DATA CONDUITS. PATCH AND REPAIR TO MATCH EXISTING CONDITIONS. VERIFY QUANTITY AND SIZE OF CONDUITS WITH IT DRAWINGS.
8. CONTRACTOR IS TO INTERCEPT EXISTING CEILING JUNCTION BOX AND EXTEND EXISTING CIRCUIT TO PRINTER AS SHOWN. PROVIDE ALL CONDUIT, CONDUCTORS AND JUNCTION BOXES FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
9. PROVIDE RECEPTACLE FOR MICROWAVE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
10. PROVIDE 50A RECEPTACLE FOR ELECTRIC COOKTOP. CONFIRM NEMA CONFIGURATION WITH COOKTOP MANUFACTURER.
11. PROVIDE 120V POWER MOUNTED IN CEILING SPACE FOR ALL RESTROOM LOW VOLTAGE DEVICES. PLUMBING CONTRACTOR TO PROVIDE LOW VOLTAGE TRANSFORMER TO CONNECT TO PLUMBING DEVICES. ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTION. COORDINATE EXACT ELECTRICAL LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

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COUNTY OF RIVERSIDE
FLOOD CONTROL

1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/26
2	BID ADDENDUM #02	04/17/26

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SHEET TITLE:
ELECTRICAL REMODEL PLAN - BUILDING 1A

SHEET NUMBER:
E-5.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
22854	LM / MR /EV / JM	BK	04/17/2026

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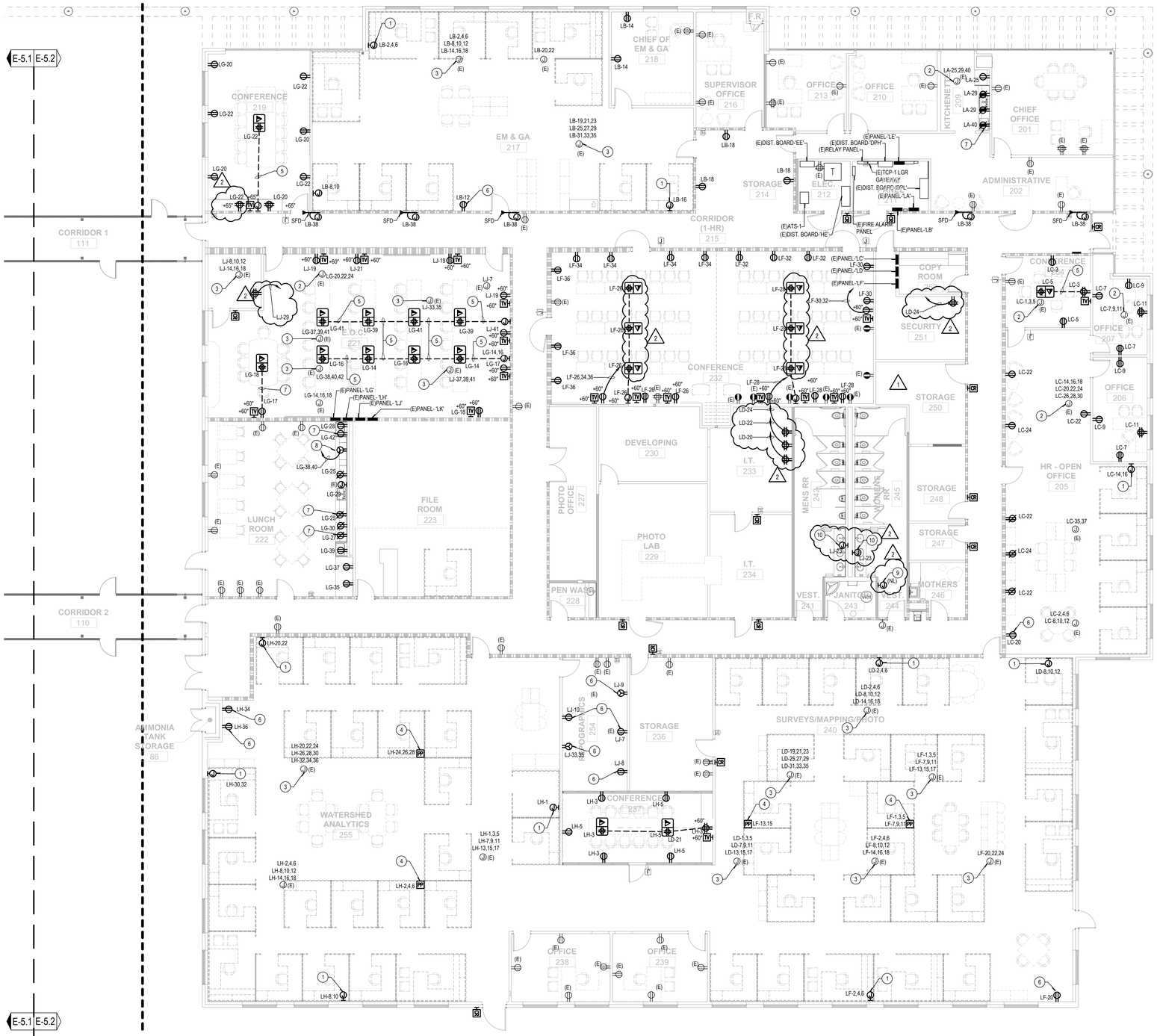
ELECTRICAL REMODEL PLAN - BUILDING 1A | SCALE: 1/8" = 1'-0" | 1

R:_PROJECT\2025\25-139 RIVERSIDE FLOOD CONTROL_ADMIN RENOVATION_CM\25-139 E-BLD01A - 2026-04-16 - MARTIN RAMIREZ



ELECTRICAL REMODEL BLDG 1 PLAN

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

1

GENERAL NOTES

1. COORDINATE POWER AND DATA DEVICE LOCATIONS, AND DEVICE PLATE COLOR WITH ARCHITECT.
2. REFER TO MECHANICAL AND PLUMBING PLANS FOR THE EXACT LOCATION OF HVAC EQUIPMENT AND ADDITIONAL WIRING REQUIREMENTS.
3. PROVIDE DUCT DETECTOR POWER AND CONNECTIONS AS INDICATED ON MECHANICAL DRAWINGS.
4. PROVED FLEXIBLE SEAL TYPE CONDUIT FOR CONNECTION TO ALL HVAC EQUIPMENT.
5. PROVIDE HEAVY DUTY DISCONNECT SWITCHES WITH DUAL ELEMENT FUSES TO MATCH MOTOR H.P. RATING.
8. PROVIDE 3/4" CONDUIT FOR ELECTRICAL CIRCUITS U.O.N..
9. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUITS REQUIRED FOR ALL BRANCH CIRCUIT AND FEEDERS FOR CIRCUIT SIZES NOT SHOWN, REFER TO PANEL SCHEDULES FOR CONDUCTOR AND CONDUIT SIZES.
10. EXCEPT FOR THE HOMERUN INDICATION, CONDUIT AND WIRING SHOWN FOR REFERENCE ONLY, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE THE NUMBER OF CONDUCTORS REQUIRED FOR HOT LEGS, NEUTRAL AND GROUNDING AT EACH DEVICE FOR PROPER BRANCH CIRCUITING.
11. ALL 125 AND 250-VOLT, 15- AND 20-AMPERE NONLOCKING TYPE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES IN AREAS SPECIFIED IN NEC 406.12.
12. ALL ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED WITH NAMEPLATES, REFER. TO SPECIFICATIONS. IN ADDITION, EACH DISCONNECT MUST BE MARKED TO IDENTIFY ITS PURPOSE AND INCLUDE IDENTIFICATION OF CIRCUIT SOURCE THAT SUPPLIES DISCONNECTING MEANS. (110.22)
13. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS.
14. CONTRACTOR SHALL INSPECT EACH CONDUCTOR FOR CORRECT IDENTIFICATION AND INSPECT CABLE JACKET AND CONDITION. CONTRACTOR SHALL PROVIDE CONTINUITY AND INSULATION-RESISTANCE TESTING FOR ALL EXISTING CONDUCTORS TO BE REUSED. CONTRACTOR SHALL REPLACE ANY CONDUCTORS THAT DO NOT PASS TESTING AND INSPECTION.

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CONSTRUCTION NOTES

1. PROVIDE SYSTEMS FURNITURE POWER AND DATA JUNCTION BOXES AND WHIPS (PIGTAILS) PER FURNITURE MANUFACTURER. VERIFY LOCATIONS WITH FURNITURE DRAWINGS AND INSTALLER PRIOR TO ROUGH-IN.
2. CONTRACTOR IS TO INTERCEPT EXISTING CEILING JUNCTION BOX AND EXTEND TO NEW RECEPTACLES AS SHOWN. CONTRACTOR IS TO CONNECT CONDUCTORS TO NEW RECEPTACLE AND EXTEND TO EXISTING RECEPTACLE(S) TO ENSURE ALL EXISTING RECEPTACLE(S) REMAIN ENERGIZED.
3. CONTRACTOR IS TO INTERCEPT EXISTING CEILING JUNCTION BOX AND EXTEND TO NEW SYSTEM FURNITURE AS SHOWN. PROVIDE ALL CONDUIT, CONDUCTORS AND JUNCTION BOXES FOR A COMPLETE AND OPERABLE SYSTEM.
4. PROVIDE J-BOX IN CEILING AND ROUTE POWER/DATA DOWN THROUGH POWER POLE. PROVIDE SYSTEMS FURNITURE POWER AND DATA JUNCTION BOXES AND WHIPS (PIGTAILS) PER FURNITURE MANUFACTURER.
5. SAWCUT EXISTING CONCRETE FLOOR FOR RUNNING OF POWER AND DATA CONDUITS. PATCH AND REPAIR TO MATCH EXISTING CONDITIONS. VERIFY QUANTITY AND SIZE OF CONDUITS WITH IT DRAWINGS.
6. CONTRACTOR IS TO INTERCEPT EXISTING CEILING JUNCTION BOX AND EXTEND EXISTING CIRCUIT TO PRINTER AS SHOWN. PROVIDE ALL CONDUIT, CONDUCTORS AND JUNCTION BOXES FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
7. PROVIDE RECEPTACLE FOR MICROWAVE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
8. PROVIDE 50A RECEPTACLE FOR ELECTRIC COOKTOP. CONFIRM NEMA CONFIGURATION WITH COOKTOP MANUFACTURER.
9. CONTRACTOR TO INTERCEPT EXISTING MOTORIZED CONTROL CIRCUIT AND CONDUIT AND EXTEND TO NEW LOCATION AS SHOWN. VERIFY EXACT LOCATION PRIOR INSTALLATION.
10. PROVIDE 120V POWER MOUNTED IN CEILING SPACE FOR ALL RESTROOM LOW VOLTAGE DEVICES. PLUMBING CONTRACTOR TO PROVIDE LOW VOLTAGE TRANSFORMER TO CONNECT TO PLUMBING DEVICES. ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTION. COORDINATE EXACT ELECTRICAL LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

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ABBREVIATIONS

A	AMPERE
ACP	ACCESS CONTROL SYSTEM
ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
BKBD	BACKBOARD
BLDG	BUILDING
BKR	BREAKER
C	CONDUIT
CACE	COHERENT ANALYTIC COMPUTING ENVIRONMENT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CFSD	COMBINATION FIRE SMOKE DAMPER
CO	CONDUIT ONLY
CU	COPPER
CL	CENTERLINE
CTTA	CERTIFIED TEMPEST TECHNICAL AUTHORITY
DN	DOWN
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRICAL METALLIC TUBING
EXIST, (E)	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FF	FINISHED FLOOR
FFE	FURNITURE, FIXTURES, & EQUIPMENT
FG	FINISHED GRADE
FLA	FULL LOAD CURRENT
GEC	GROUNDING ELECTRODE CONDUCTOR
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
IDS	INTRUSION DETECTION SYSTEM
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED/INSULATED GROUND
J-BOX	JUNCTION BOX
JWICS	JOINT WORLDWIDE INTELLIGENCE COMMUNICATION SYSTEM
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATT
KV	KILO VOLT
KVA	KILO VOLT-AMPERE
LV	LOW VOLTAGE
MFR	MANUFACTURER
MAX	MAXIMUM
MIN	MINIMUM
MH	MANHOLE / METAL HALIDE
MPOE	MAIN POINT-OF-ENTRY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NEW (N)	NEW, TO BE FURNISHED AND INSTALLED BY CONTRACTOR
NIC	NOT IN CONTRACT
NO	NUMBER, NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PB	PULL BOX
PNL	PANEL
POC	POINT OF CONNECTION
PWR	POWER
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
RMC	RIGID METALLIC CONDUIT
RM	ROOM
RNC	RIGID NONMETALLIC CONDUIT
SHT	SHEET
SPEC	SPECIFICATIONS
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TEL	TELEPHONE
TERM	TERMINAL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTAGE
VA	VOLT-AMPERE
W	WATT
WP	WEATHERPROOF
WW	WIREWAY
4W	FOUR-WIRE
3W	THREE-WIRE
5S	JUNCTION BOX (4 11/16" SQUARED X2 1/8" DEEP)
Ø	DIAMETER, PHASE
#	NUMBER
°C	DEGREE CELSIUS
(E)	EXISTING DEVICE TO REMAIN
(R)	REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT AND WIRE
(RL)	REMOVE EXISTING DEVICE AND RELOCATE AS SHOWN ON PLAN
(NL)	NEW LOCATION OF RELOCATED DEVICE

TECHNOLOGY NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO ALL APPLICABLE LOCAL CODES AND REGULATIONS.
2. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
4. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELL/STROBES, FIRE ALARM PULL STATIONS. RECEPTACLES ETC. WITH CABINETS, FURNITURE, EQUIPMENT ETC., TO AVOID CONFLICT.
5. FURNISH APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
6. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
7. PROVIDE PULL BOXES EVERY 180 DEGREE OF BENDS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULL BOX SHALL COMPLY WITH BISCI REQUIREMENTS.
   A. A THIRD 90 DEGREE BEND BETWEEN PULL POINTS OR BOXES WILL BE ALLOWED IF CONDUIT CAPACITY FOR FINAL RUN IS DERATED BY 15%.
   B. PROVIDE A LABEL INDICATING CONDUIT DERATING.
      a. EXCEPTIONS TO NOT ALLOW CONDUIT DERATING:
         - TOTAL RUN IS LESS THAN 10M (33FT)
         1) IF CONDUIT CAPACITY FOR FINAL RUN IS DERATED BY 15%, AND CONDUIT TRADE SIZED IS INCREASED
         2) ONE BEND IS LOCATED WITHIN 300mm (12in) OF CABLE FEED END.
8. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK-TO-BACK.
9. ALL TECHNOLOGY CABLING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM. TECHNOLOGY CABLING SHALL BE IN SEPARATE RACEWAYS FROM POWER OR LIGHTING.
10. ALL MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION.
11. ANY ERRORS, OMISSIONS, OR DESIGN DISCREPANCIES ON PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR CORRECTION PRIOR TO THE CONSTRUCTION AND PREPARATION OF SUBMITTAL PACKAGES.
12. WIRING METHOD SHALL BE EMT ABOVE GROUND AND MOUNTED IN CONCEALED SPACES AND SCHEDULE-40 PVC FOR UNDERGROUND INSTALLATION. USE RIGID WHEN ENCASED IN CONCRETE OR SUSCEPTIBLE TO DAMAGE.
13. ALL TECHNOLOGY EQUIPMENT SHOWN ON PLANS SHALL BE DEEMED NEW. CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW EQUIPMENT SHOWN ON PLANS U.O.N.
14. PENETRATIONS THROUGH FIRE-RATED BARRIERS SHALL BE FIRESTOPPED.
15. LOCATE TECHNOLOGY PATHWAYS AWAY FROM SOURCES OF EMI, INCLUDING BUT NOT LIMITED TO:
    A. ELECTRICAL POWER CABLING AND TRANSFORMERS
    B. RF SOURCES
    C. LARGE MOTORS AND GENERATORS
    D. INDUCTION HEATERS
    E. PHOTOCOPY EQUIPMENT
21. DAISY-CHAINING OF DEVICE BACKBOXES ARE NOT ALLOWED, UNLESS SPECIFICALLY NOTED OR DRAWN ON FLOOR PLANS OR DETAILS.
22. CONDUIT BENDS SHALL BE MINIMUM (10) TIMES THE INSIDE DIAMETER OF CONDUIT.
23. CONDUIT BENDS FOR FIBER CABLING SHALL BE MINIMUM (20) TIMES THE OUTSIDE DIAMETER OF SPECIFIED CABLING.

DEMOLITION NOTES

1. THE DEMOLITION NOTE REFERENCE PERTAIN TO ALL RELATED SHEETS WHERE EXISTING TECHNOLOGY WORK IS INDICATED.
2. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND MAKE THEMSELVES COMPLETELY FAMILIAR WITH THE EXISTING INSTALLED CONDITIONS.
3. ALL EQUIPMENT OR WORK REQUIRED TO CARRY OUT THE DEMOLITION SCOPE OF WORK IS CONSIDERED TO BE PART OF THE CONTRACTOR SCOPE OF WORK. NO EXTRAS WILL BE CONSIDERED TO PERFORM THE REQUIRED WORK.
4. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE FACILITY DIRECTOR PRIOR TO THE SCHEDULING OF ANY POWER OUTAGE. SUCH PERMISSION MUST BE OBTAINED IN WRITING AND BE GRANTED AT LEAST 7 DAYS PRIOR TO ANY SCHEDULE SHUT DOWN. THE SHUT DOWN SHALL NOT EXCEED A DURATION OF 4 HOURS.
5. THE CONTRACTOR SHALL NOT STORE ON SITE ANY ITEMS THAT WERE DEMOLISHED FOR ANY EXTENDED PERIOD OF TIME, WITHOUT THE WRITTEN PERMISSION OF THE FACILITY DIRECTOR.
6. ALL TECHNOLOGY ITEMS DESIGNATED AS EXISTING TO REMAIN SHALL AS PART OF THIS SCOPE OF WORK BE CLEANED AND TESTED, TO INSURE PROPER OPERATION. ANY ITEMS THAT FAIL TO PASS THE TEST SHALL BE BROUGHT TO THE ATTENTION OF THE FIELD INSPECTOR AND THE ENGINEER OF RECORD FOR RESOLUTION.
7. THE CONTRACTOR SHALL REMOVE ALL CONDUITS, WIRES AND OTHER APPARATUS DESIGNATED AS EXISTING TO BE REMOVED. DEMOLITION ITEMS, IF NOT REQUIRED TO BE SALVAGED BY OWNER, BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER.
8. THE CONTRACTOR SHALL REMOVE ALL CONDUITS SERVING DEVICES WHICH ARE DESIGNATED AS EXISTING TO BE REMOVED, BACK TO THE SOURCE WHEN POSSIBLE. IF THE NATURE OF THE EXISTING INSTALLATION WILL NOT ALLOW REMOVAL THE CONTRACTOR SHALL REMOVE ALL EXPOSED CONDUIT AND ABANDON THE REMAINDER AFTER REMOVING ALL CONDUCTORS.
9. DEMOLITION AND/OR REMOVAL OF ELECTRICAL EQUIPMENT IN AREAS TO BE REMODELED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. WHERE EXISTING CONDUIT AND CONDUCTORS ARE TO BE REMOVED AND CONDUIT IS INSTALLED IN GROUND OR EMBEDDED IN CONCRETE, REMOVE WIRE AND CUT CONDUIT TO BELOW FLOOR, PLUG CONDUIT, PATCH FLOOR AND ABANDON CONDUIT.
11. WHERE TECHNOLOGY DEVICES ARE TO BE REMOVED, REMOVE ALL CONDUIT AND CONDUCTORS BACK TO SOURCE, TERMINAL CABINETS, AND RACKS. PROVIDE BLANK COVER PLATE FOR ABANDONED JUNCTION BOXES.
12. REMOVE ALL CONTROL PANELS, EQUIPMENT RACKS, PULL-BOXES, TERMINAL CABINETS, ETC. FOR SYSTEMS TO BE DEMOLISHED EXCEPT WHERE ANY OF THE EXISTING DEVICES, SYSTEMS, CONSOLES, ETC. ARE TO BE REUSED FOR UPGRADE.
13. PROVIDE BLANK COVER PLATE FOR ALL EMPTY OUTLET BOXES WHERE DEVICES AND/OR CONDUCTORS HAVE BEEN REMOVED AS PART OF THIS CONTRACT.
14. AFTER REMOVAL OF WIREMOLD AND ASSOCIATED FITTINGS, PATCH, REPAIR AND PAINT AFFECTED SURFACES TO MATCH EXISTING.
15. EXISTING CONDUIT CAN BE REUSED PROVIDING IT IS CHECKED FOR CONTINUITY OF GROUND, BLOWN FREE OF DEBRIS, AND DOES NOT INTERFERE WITH NEW CONSTRUCTION.
16. REMOVALS AND REPAIRS TO EXISTING ELECTRICAL WORK REQUIRED TO AVOID CONFLICTS WITH NEW CONSTRUCTION TO MEET MINIMUM CODE REQUIREMENTS.
17. A FIELD SURVEY VERIFICATION IS MANDATORY IN ORDER TO SUBMIT AN ELECTRICAL BID, FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK OF THIS CONTRACT.

LEGEND AND SYMBOLS

SYMBOL	AUDIOVISUAL
A XXX	WALL OUTLET
A	CEILING LOUDSPEAKER
A M	CEILING MICROPHONE

"XXX" DENOTES DEVICE TYPE
- AV = AUDIOVISUAL INPUTS
- CAM = CONFERENCING CAMERA
- CP = CONTROL PANEL
- DS = DIGITAL SIGNAGE
- HDMI = HDMI INPUT PLATE
- PS = PARTITION SENSOR
- SB = SOUND BAR
- RR = RACK ROUGH-IN
- SCH = SCHEDULER
- VD = VISUAL DISPLAY

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SECURITY	
S XXX	WALL OUTLET, RECESSED
S XXX	DOOR DEVICE
S XXX	CEILING OUTLET, RECESSED
XXX	WALL MOUNT FIXED VIEW CAMERA
XXX	WALL MOUNT 180/270 CAMERA
XXX	CEILING MOUNT 360 CAMERA

"XXX" DENOTES DEVICE TYPE
- CR = CARD READER
- CRM = CARD READYER MULLION
- DC = DOOR CONTACT
- IC = INTERCOM NO VIDEO
- INT = INTERCOM
- K = KNOX BOX TAMPER MONITOR
- KP = KEYPAD
- LA = LOCAL ALARM
- MD = MOTION DETECTOR
- MS = MASTER STATION
- PTZ = PAN-TILT-ZOOM
- RC = RELAY CONNECTION
- RX = REQUEST-TO-EXIT
- SNODE = SECURITY NOTE
- STR = STROBE
- SWAP = SECURITY WIRELESS GATEWAY
- T = TEMPERATURE SENSOR
- VD = VIDEO VIEWING STATION
- VI = INTERCOM W/ VIDEO
- WCR = WIRELESS CARD READER (REFER TO DIVISION 8)
- WR = WIRELESS RECEIVER
- WT = WIRELESS TRANSMITTER

2

NOTE TO CONTRACTOR

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

TASK RESPONSIBILITY MATRIX

TASK	RESPONSIBLE PARTY
TECHNOLOGY CONDUIT, BACKBOXES, SLEEVES	CFCI
TECHNOLOGY CONDUIT ID LABELING AND PULLSTRINGS	CFCI
TECHNOLOGY EQUIPMENT STRUCTURAL SUPPORTS AND BACKING	CFCI
TECHNOLOGY EQUIPMENT CEILING PREP (ACCESS POINTS, CAMERAS, INTRUSION)	CFCI
POWER TO TECHNOLOGY RACKS	CFCI
CABLE CUBBIES	FFE
TECHNOLOGY EQUIPMENT RACKS, PATCH PANELS, CABLE MANAGEMENT, RUNWAY	CFCI
TECHNOLOGY FACEPLATES, DIVIDERS, CABLING, AND TERMINATION	CFCI
AUDIOVISUAL EQUIPMENT AND CABLING	CFCI
NETWORK EQUIP (SWITCHES, SERVERS, AND STORAGE)	OFOI
NETWORK EQUIP (RACK MOUNT UPS IN IDF'S)	CFCI
MISC. IT EQUIPMENT (TELEPHONES, COMPUTERS, MONITORS, WIRELESS AP'S)	OFOI
NETWORK CABLING	OFOI
SECURITY EQUIPMENT AND CABLING	CFCI
SECURITY NETWORK CABLING	CFCI (DIV 27)
ACCESS CONTROL DEVICES AND CABLING	OFOI
VIDEO SURVEILLANCE DEVICES	CFCI

OFCI = OWNER FURNISH CONTRACTOR INSTALLED
OFOI = OWNER FURNISH OWNER INSTALLED
CFCI = CONTRACTOR FURNISHED CONTRACTOR INSTALLED

2

Sheet List Table

SHEET NUMBER	SHEET TITLE
T-0.1	TECHNOLOGY LEGENDS & NOTES
T-1.0	TECHNOLOGY DEMOLITION OVERALL PLAN
T-2.1	TECHNOLOGY DEMOLITION PLAN - BUILDING 1A
T-2.2	TECHNOLOGY DEMOLITION PLAN - BUILDING 1B
T-4.1	TECHNOLGY REMODEL OVERALL PLAN
T-4.2	TECHNOLOGY REMODEL PLAN - BUILDING 1A
T-4.3	TECHNOLOGY REMODEL PLAN - BUILDING 1B
T-5.1	TECHNOLOGY DETAILS
T-5.2	AV SINGLE LINES

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SHEET TITLE:
TECHNOLOGY LEGENDS & NOTES

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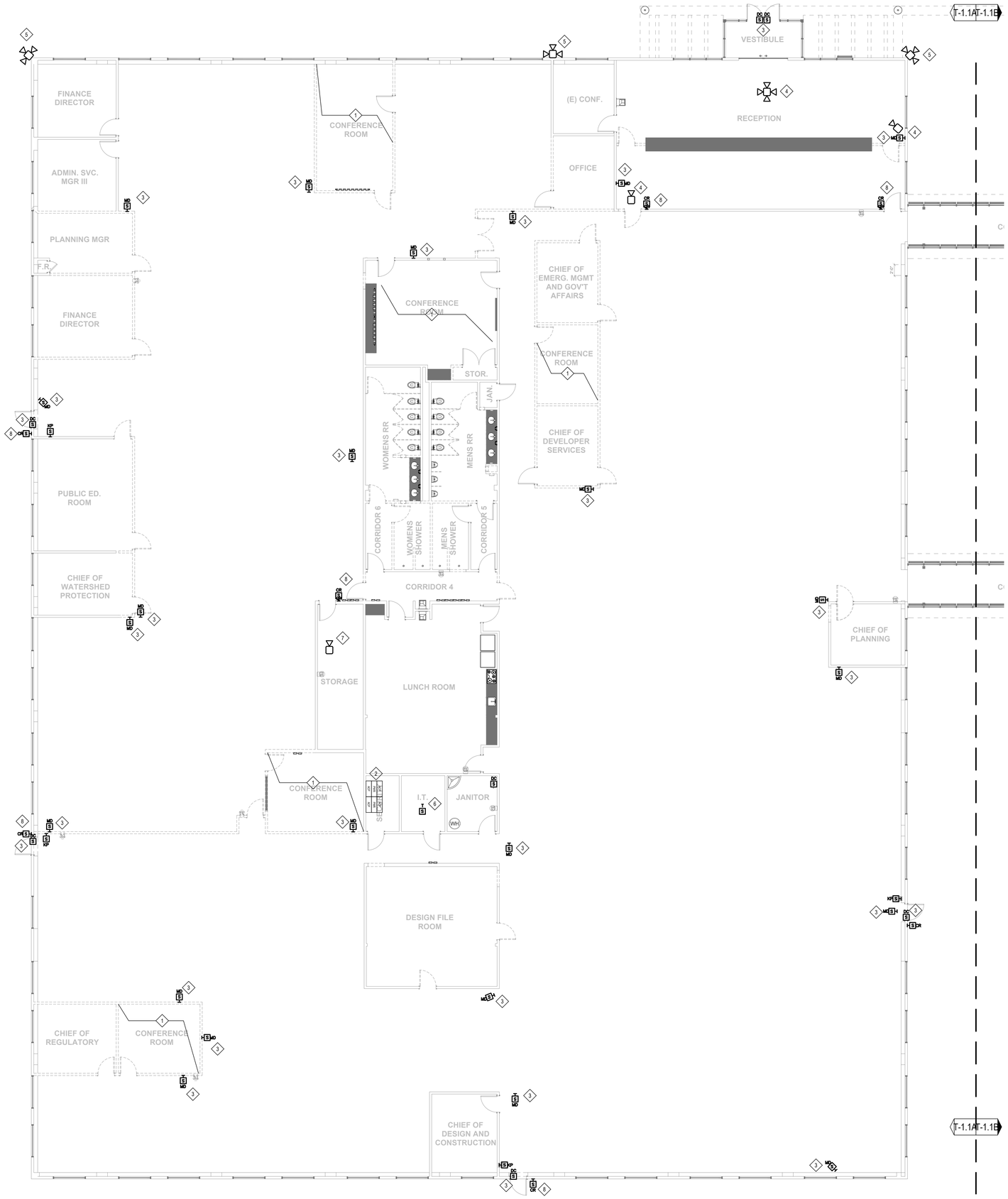
RL: PROJECT\2025\25-139 RIVERSIDE FLOOD CONTROL ADMIN RENOVATION, CAD\25-139 T-FRONT - 2026-04-16 - ROBERT MCCARTY



GENERAL NOTES

1. REMOVE DEVICES AND CABLING TO SOURCE AS INDICATED ON DEMO PLANS OR NOTES. COORDINATE WITH DEMOLITION SCOPE OF WORK.
2. PROTECT IN PLACE EXISTING SOUND MASKING SYSTEM AND CABLING. CONTRACTOR SHALL PROVIDE LOCATIONS IN AS-BUILT DRAWINGS.
3. PATCH, REPAIR, PRIME, AND PAINT EXISTING WALLS. MATCH TO EXISTING FINISHES.

DEMOLITION NOTES

1. REMOVE EXISTING CABLING AND CONDUIT TO SOURCE. REMOVE EXISTING CONFERENCING EQUIPMENT
2. REMOVE EXISTING ACCESS CONTROL PANELS AND POWER SUPPLIES
3. DEMOLISH DEVICE AND CABLING BACK TO SOURCE.
4. DEMOLISH EXISTING CAMERA AND CABLING REUSE EXISTING MOUNTING LOCATION.
5. DEMOLISH EXISTING CAMERA AND CABLING. REUSE EXISTING BUILDING PENETRATION.
6. DEMOLISH EXISTING TEMPERATURE SENSOR.
7. DEMOLISH EXISTING CAMERA AND CABLING.
8. REPLACE EXISTING CARD READER. PROVIDE NEW CABLING.

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COUNTY OF RIVERSIDE
FLOOD CONTROL

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RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
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BID ADDENDUM #02	04/17/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/26
2	BID ADDENDUM #02	04/17/26

ROBERT KLEIN MCCARTY
No. E 22839
SIGNED 04/16/2026
ELECTRICAL
STATE OF CALIFORNIA

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SHEET TITLE:
TECHNOLOGY DEMOLITION PLAN - BUILDING 1A

SHEET NUMBER:
T-2.1 (2)

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TECHNOLOGY DEMOLITION PLAN - BUILDING 1A | SCALE: 1/8" = 1'-0" | 1

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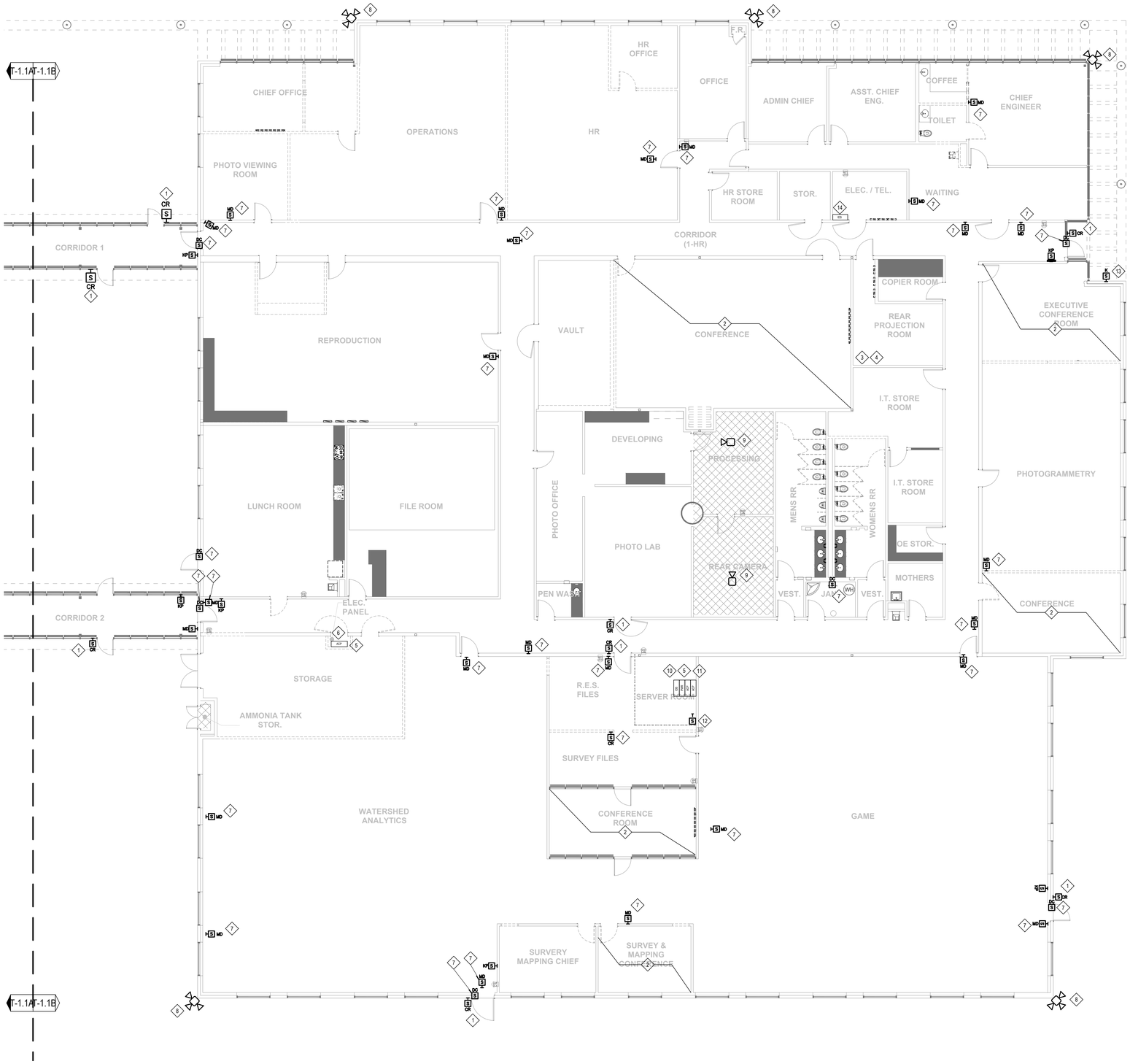

GENERAL NOTES

1. REMOVE DEVICES AND CABLING TO SOURCE AS INDICATED ON DEMO PLANS OR NOTES. COORDINATE WITH DEMOLITION SCOPE OF WORK.
2. PROTECT IN PLACE EXISTING SOUND MASKING SYSTEM AND CABLING. CONTRACTOR SHALL PROVIDE LOCATIONS IN AS-BUILT DRAWINGS.
3. PATCH, REPAIR, PRIME, AND PAINT EXISTING WALLS. MATCH TO EXISTING FINISHES.

DEMOLITION NOTES

1. REPLACE EXISTING CARD READER. PROVIDE NEW CABLING.
2. REMOVE EXISTING CABLING AND CONDUIT TO SOURCE. REMOVE EXISTING CONFERENCING EQUIPMENT.
3. APPROXIMATE LOCATION OF EXISTING NVR AND SECURITY MONITORING STATION. RELOCATE NVR INTO IDF. RE-MOUNT STATION TO WALL. PROVIDE NEW FURNITURE FOR EXISTING KEYBOARD AND MOUSE. PROVIDE PC IF NEEDED FOR STATION TO FUNCTION. COORDINATE WITH OWNER'S IT STAFF.
4. APPROXIMATE LOCATION OF EXISTING AV CABINET. RELOCATE TO NEW LOCATION. REMOVE EXISTING EQUIPMENT.
5. REMOVE EXISTING ACCESS CONTROL PANELS AND POWER SUPPLIES.
6. PROTECT EXISTING ANALOG CONNECTIONS UTILIZED FOR SECURITY. RELOCATE TO NEW EOC ROOM 221. COORDINATE TRANSITION TO CELLULAR CONNECTIVITY WITH OWNER'S IT STAFF.
7. DEMOLISH DEVICE AND CABLING BACK TO SOURCE.
8. DEMOLISH EXISTING CAMERA AND CABLING. REUSE EXISTING BUILDING PENETRATION.
9. DEMOLISH EXISTING CAMERA AND CABLING.
10. DEMOLISH EXISTING INTRUSION PANEL. COORDINATE WITH OWNER.
11. RELOCATE EXISTING ANALOG LINE TO NEW SERVER ROOM 223.
12. DEMOLISH EXISTING TEMPERATURE SENSOR.
13. DEMOLISH EXISTING CABLING. PROVIDE NEW CABLE.
14. EXISTING IDS ZONE EXPANDER. REMOVE EXISTING CABLE. PROVIDE NEW CABLE TO NEW IDS PANEL IN NEW ROOM 223.

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1995 MARKET STREET
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TECHNOLOGY DEMOLITION PLAN - BUILDING 1B | SCALE: 1/8" = 1'-0" | 1

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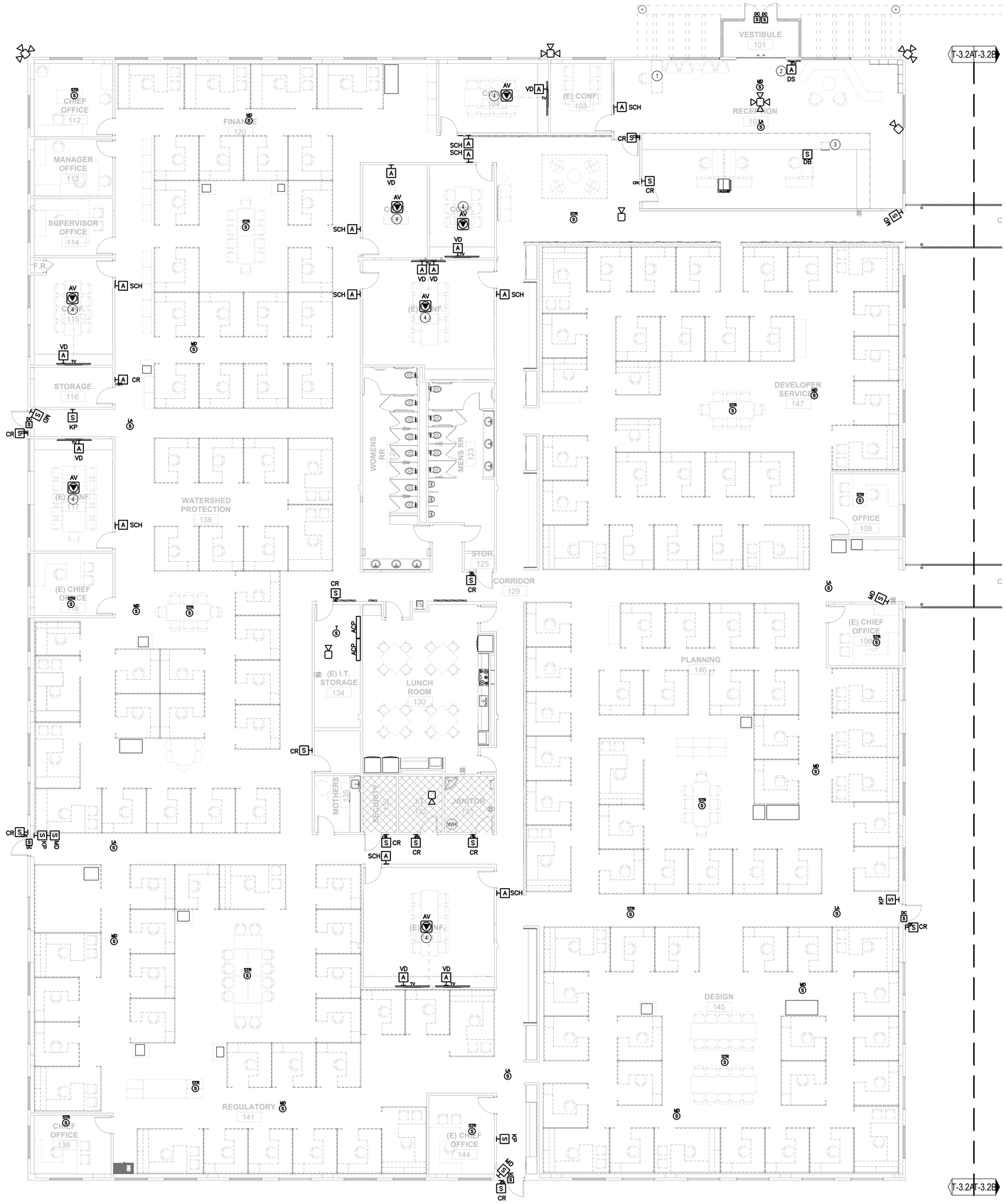

GENERAL NOTES

1. DOOR CONTACTS SHALL BE DPDT. EXTERIOR DOORS SHALL ROUTE TO BOTH INTRUSION DETECTION AND ACCESS CONTROL SYSTEM.

CONSTRUCTION NOTES

1. SECURITY WORKSTATION
2. PORTRAIT ORIENTATION
3. BADGE PRINTER LOCATION
4. PROVIDE AV RACK (CABLE CUBBY 1252 MS LID TRAY KIT) UNDER FURNITURE. FIELD COORDINATE FINAL LOCATION

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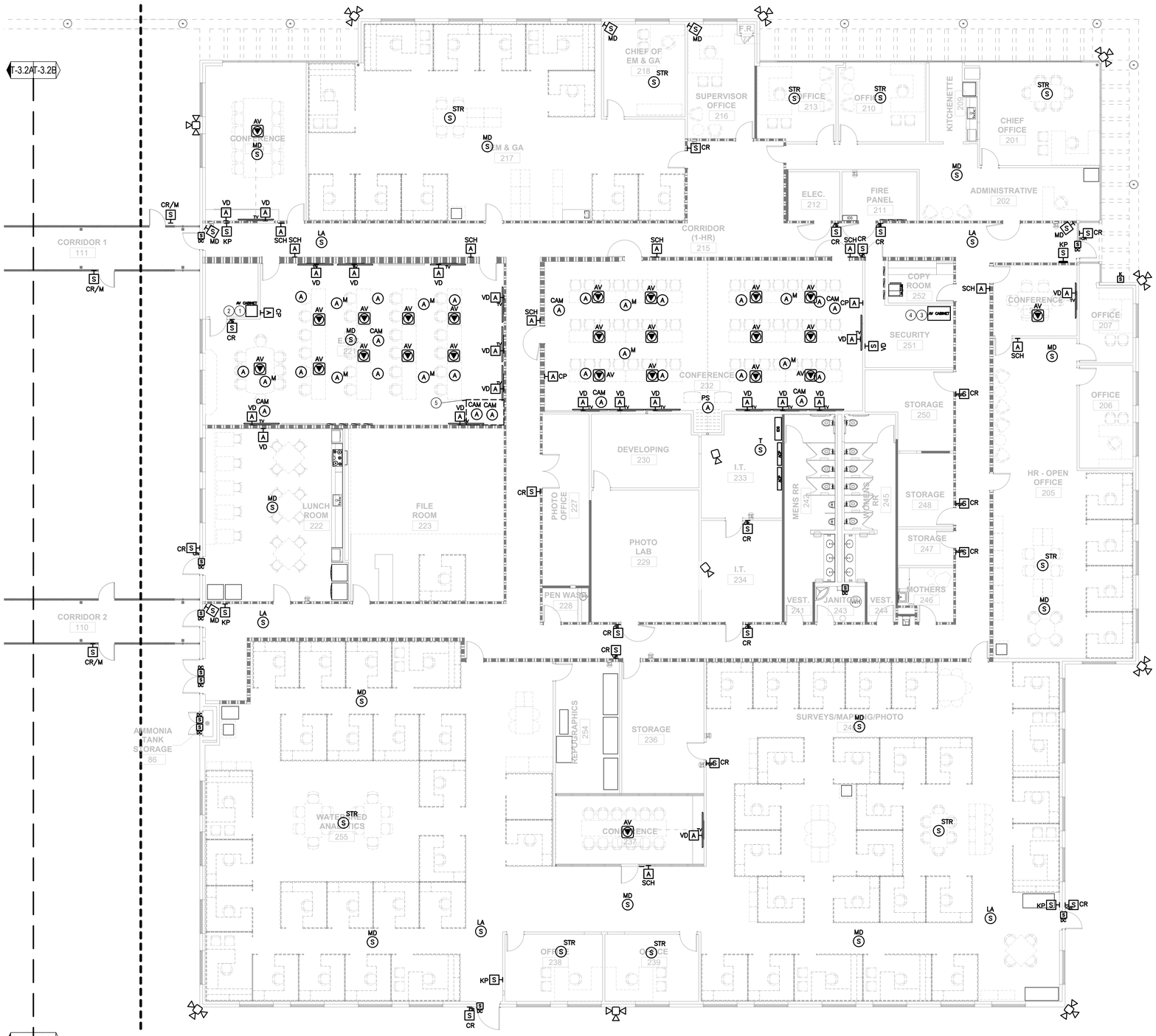

GENERAL NOTES

1. DOOR CONTACTS SHALL BE DPDT. EXTERIOR DOORS SHALL ROUTE TO BOTH INTRUSION DETECTION AND ACCESS CONTROL SYSTEM.

CONSTRUCTION NOTES

1. RACK SHALL BE USED FOR MOUNTING EQUIPMENT FOR ROOMS 221
2. PROVIDE (2) 5"SQx2-7/8" D BACKBOX AT 18" AFF WITH (2) 2" CONDUITS TO ACCESSIBLE CEILING FOR AV CABLING
3. RACK SHALL BE USED FOR MOUNTING EQUIPMENT FOR ROOMS 232
4. PROVIDE (2) 5"SQx2-7/8" D BACKBOX AT 18" AFF WITH (2) 2" CONDUITS TO ACCESSIBLE CEILING FOR AV CABLING.
5. WALL-MOUNT STACKED TOP AND BOTTOM AS HIGH AS POSSIBLE ADJACENT TO DISPLAY ON EAST WALL.

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TECHNOLOGY REMODEL PLAN - BUILDING 1B | SCALE: 1/8" = 1'-0" | 1

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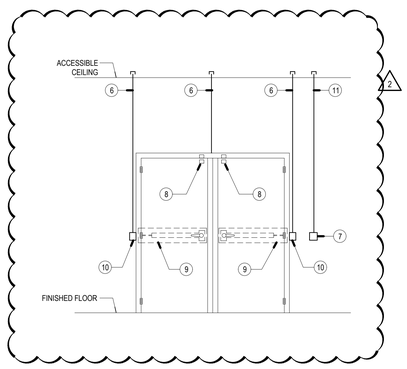
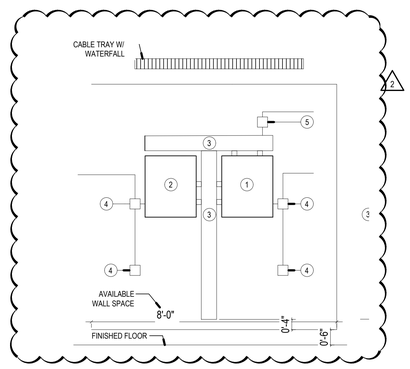
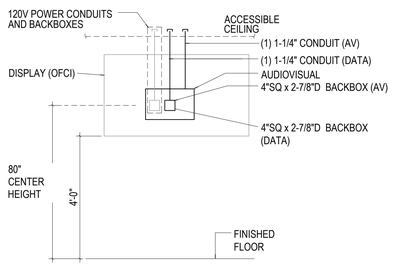


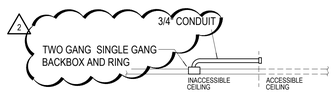
DBL DOOR - CR | 13



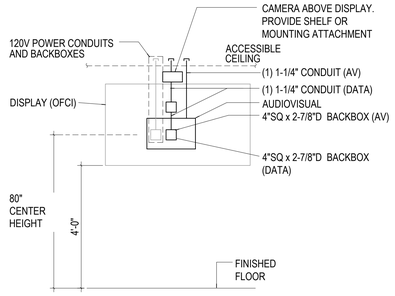
SECURITY ELEVATION ROOM 134 | 9



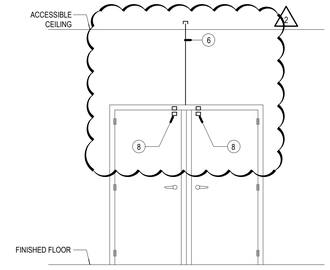
DISPLAY ELEVATION | 5



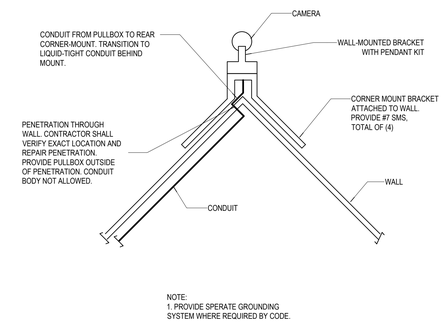
CEILING OUTLET - INACCESSIBLE CEILING | 1



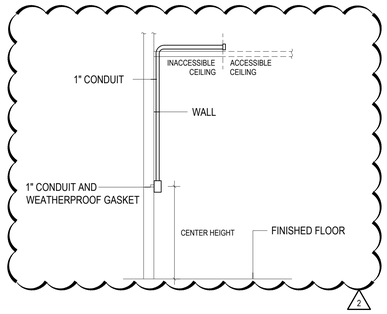
DISPLAY ELEVATION W/ CAMERA | 14



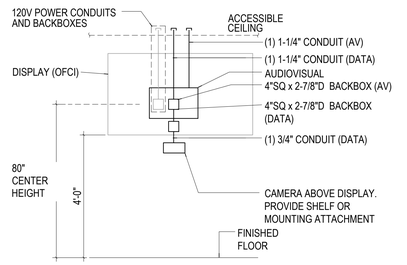
DBL DOOR - DC ONLY | 10



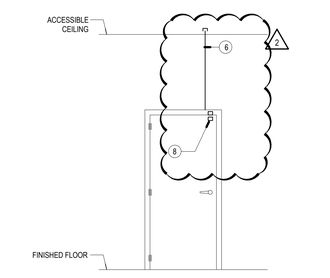
CORNER MOUNT CAMERA | 6



EXTERIOR WALL OUTLET - RECESSED | 2

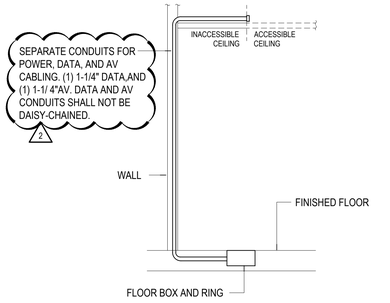


DISPLAY ELEVATION W/ CAMERA | 15

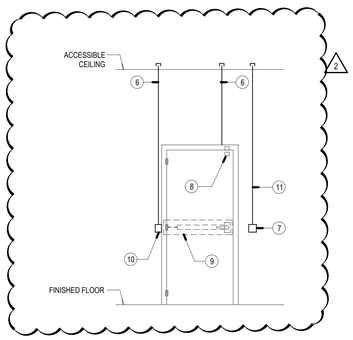


SGL DOOR - DC ONLY | 11

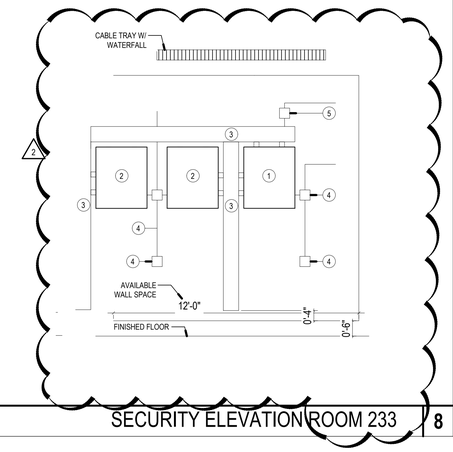
CEILING OUTLET - ACCESSIBLE CEILING | 7



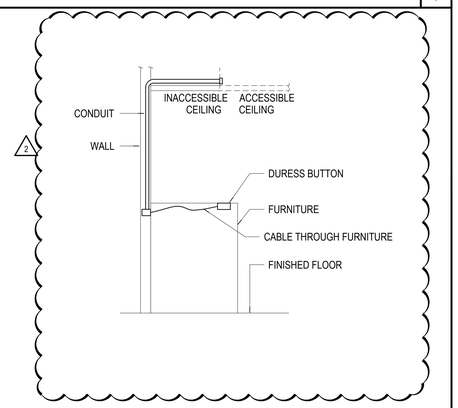
FLOOR BOX OUTLET | 3



SGL DOOR - CR | 12



SECURITY ELEVATION ROOM 233 | 8



WALL FEED - DB | 4

GENERAL NOTES

CONSTRUCTION NOTES

1. COMBINED ACCESS CONTROL AND POWER SUPPLY ENCLOSURE
2. INTRUSION DETECTION PANEL
3. 6"x6" WIREWAY
4. 120V POWER
5. FIRE ALARM RELAY
6. 3/4" CONDUIT
7. CARD READER MOUNTED TO 4" SQ x 2-7/8"D BACKBOX
8. PREP FRAME FOR DOOR CONTACT. PROVIDE RECESSED DOOR CONTACT, REFER TO DIVISION 8
9. ELECTRIFIED TRANSFER HINGE/POWER TRANSFER & LOCKING HARDWARE- REFER TO DIVISION 8
10. SINGLE GANG BOX
11. 1" CONDUIT

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SIGNED 04/16/2026
ELECTRICAL
STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

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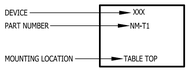
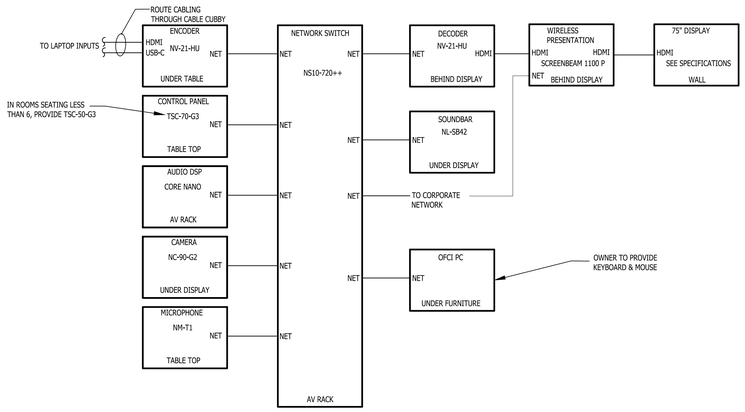
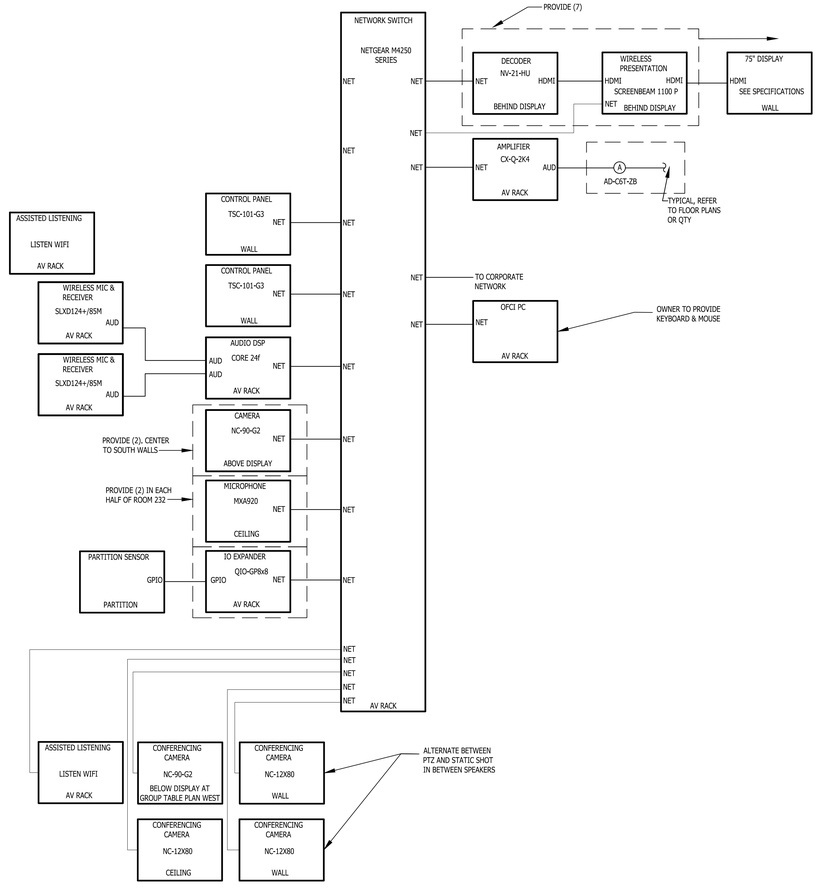


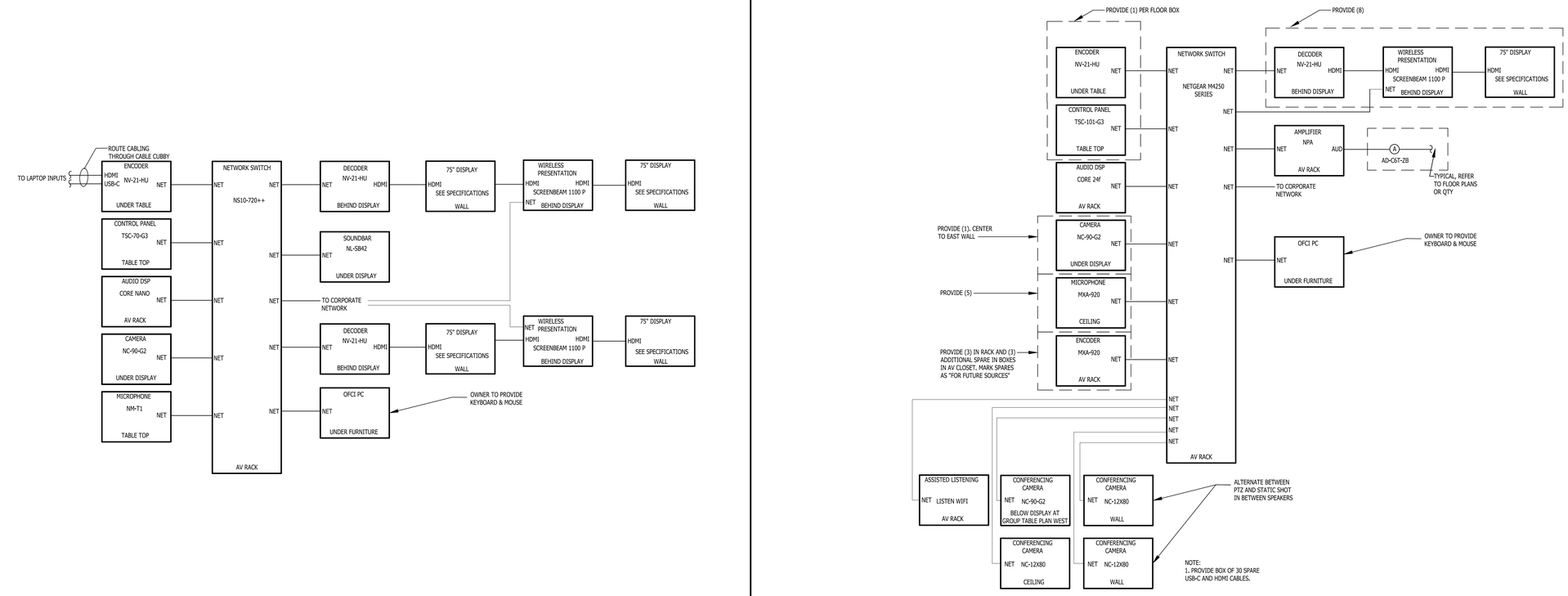
SINGLE LINE LEGEND



CONFERENCE ROOM SINGLE LINE | 3



CONFERENCE ROOM 232 | 1



CONFERENCE ROOM 119 & 219 SINGLE LINE | 4

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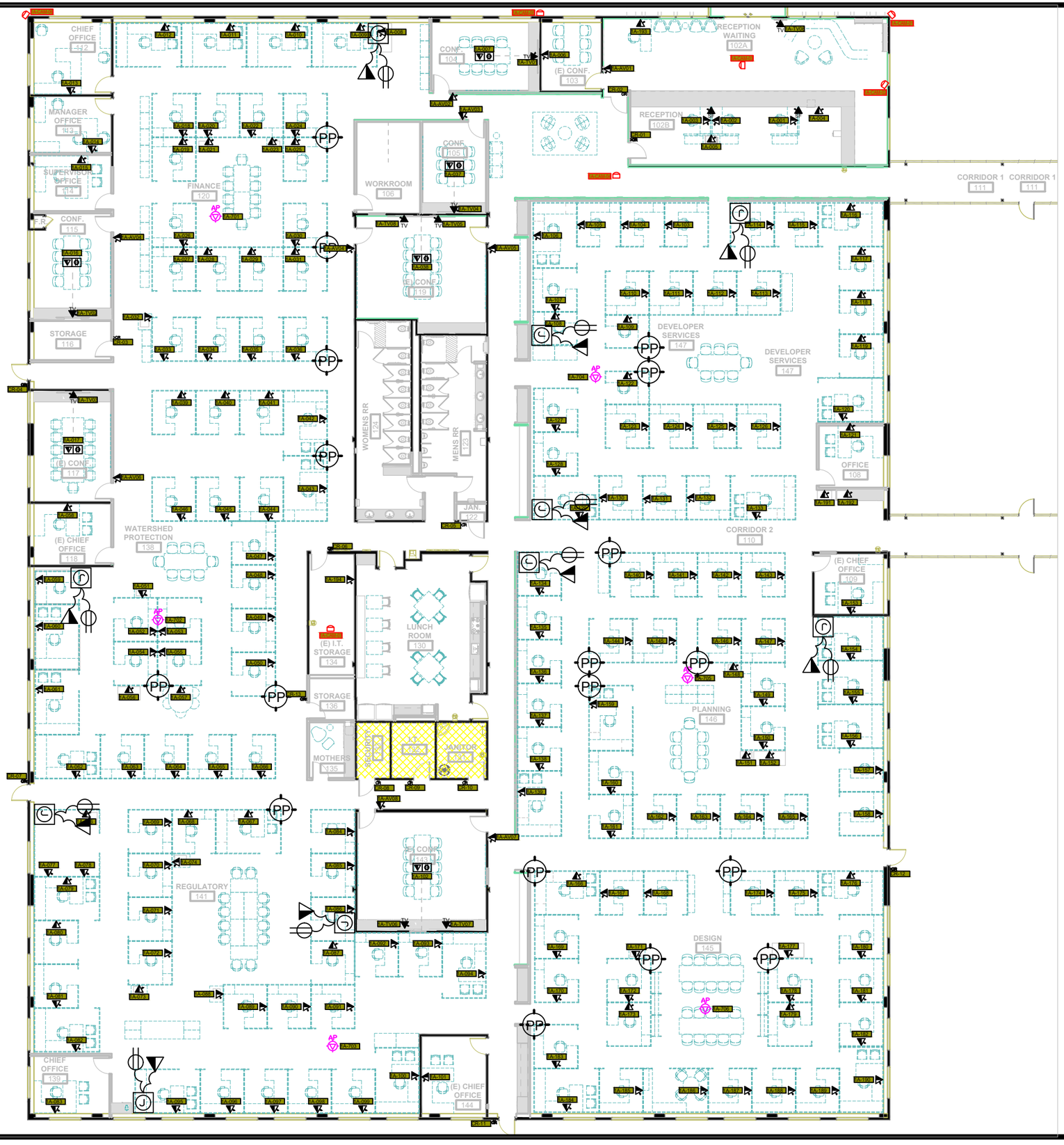
25-139

R:_PROJECT\2025\25-139 RIVERSIDE FLOOD CONTROL ADMIN RENOVATION_CAD\TS-2 AV SINGLE LINES - 2026-04-16 - ROBERT MCCARTY



RCIT

Riverside County Information Technology

Communications Bureau

3450 14th Street, 3rd Floor
Riverside, CA 92501

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Telecommunications Engineer
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SEAL

FLOOD CONTROL

Telecom Floor Plan

1995 Market St, Riverside, 92501

REVISION	DATE	DESCRIPTION

PROJECT NO:
CAD DWG FILE:
DRAWN BY:
CHECKED BY: ANGEL ROCHA
DATE: DEC. 2025
SCALE: NTS

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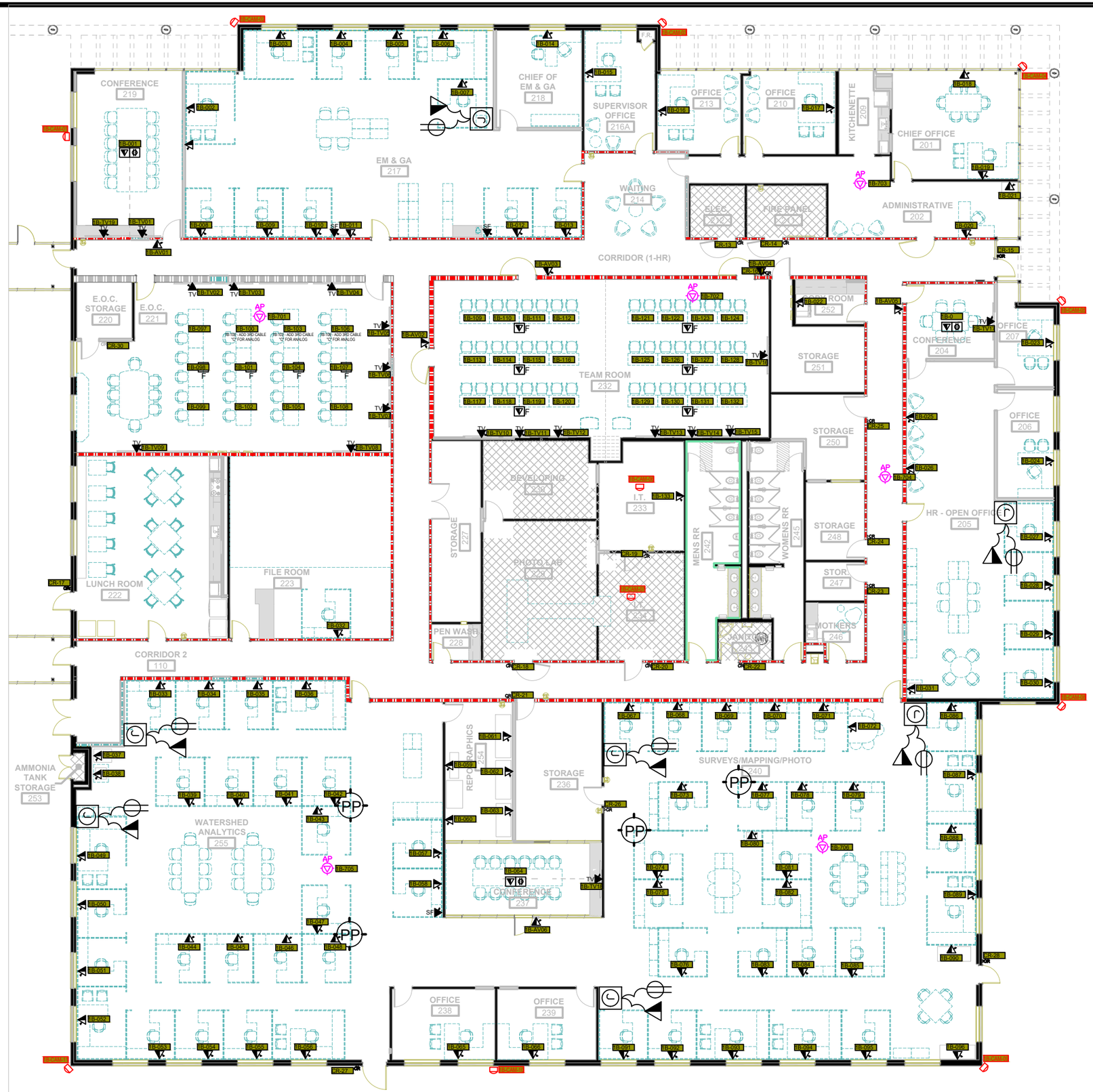
SHEET TITLE:

TR-1A
FLOOR PLAN

T1-1

SHEET OF

G:\Data\Telephone\Engineering\Active Projects\Riverside\Flood Control\1995 MARKET\2025 Flood Control Remodel\Drawings\Floor Plans\Flood Floor Plan.dwg



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FLOOD CONTROL

TELECOM FLOOR PLAN

1995 Market St,
Riverside, 92501

REVISION	DATE	DESCRIPTION

PROJECT NO
CAD DWG FILE
DRAWN BY
CHECKED BY: ANGEL ROCHA
DATE: DEC 2025
SCALE: NTS

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SHEET TITLE:

TR-1B
FLOOR PLAN

T1-2
SHEET OF

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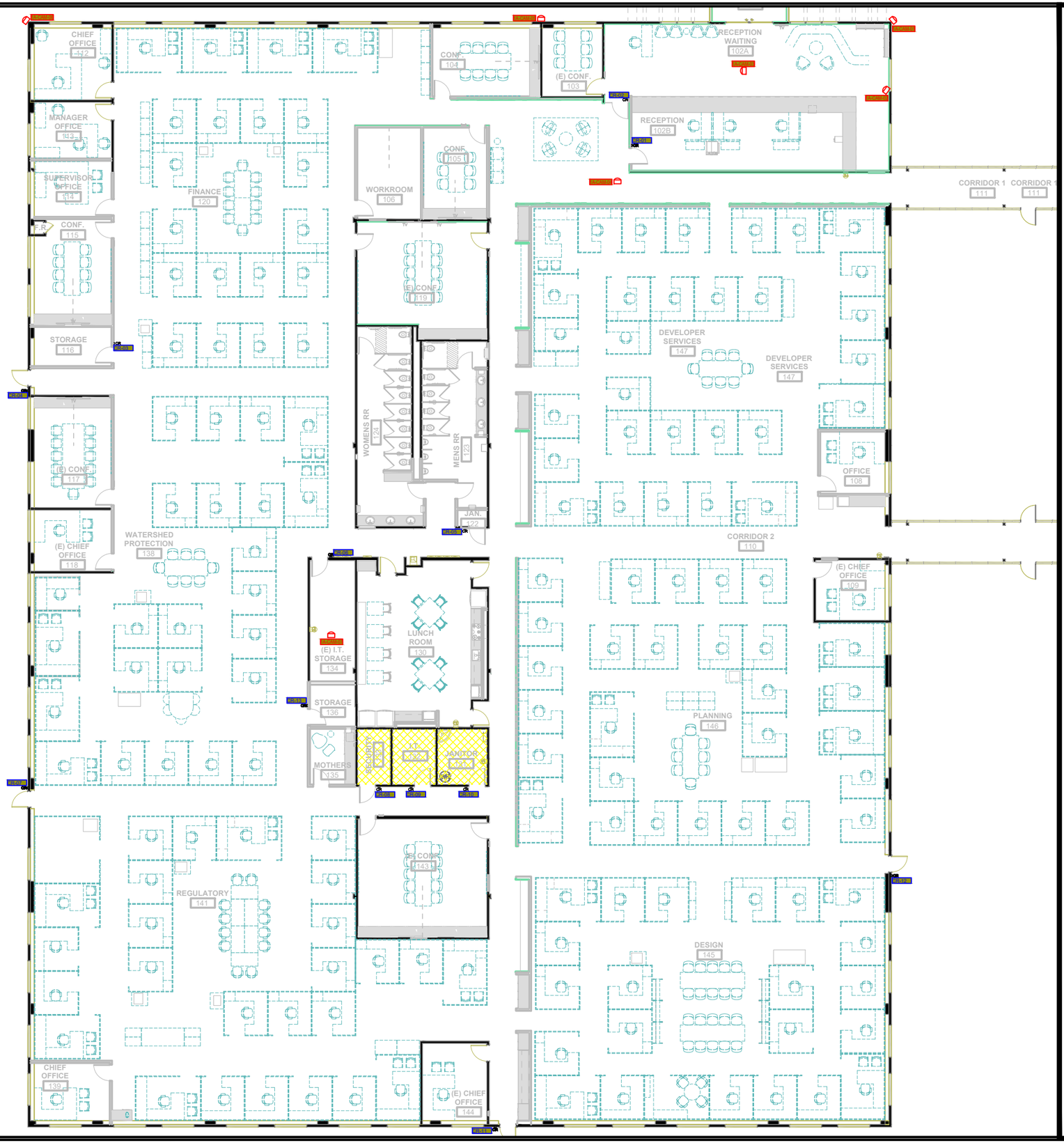

SECURITY GENERAL NOTES

WHERE CONDUIT STUB-OUTS ARE LOCATED NEAR A CEILING SPACE THAT IS INACCESSIBLE, THE CONDUIT END SHALL TERMINATE IN AN ACCESSIBLE PORTION OF THE CEILING SPACE

CR
CR-12

CARD READER: Provide one 3/4-inch EMT conduit and (1) 4-inch W x 4 inch H x 2.5 inch D junction box with a single gang mud ring installed in vertical position at a height that conforms to the ADA requirements as determined by the Architect of Record; without clear direction from the Architect, install the outlet at 44 inches AFF to the center of the backbox. Conduit shall be installed from the junction box to the accessible ceiling.

DOOR HARDWARE: Based on the door schedule, the construction professionals will coordinate closely with the County Department occupying the facility and the RCIT Communications Bureau Infrastructure Engineer to determine and finalize the electrified door hardware. The Construction Professionals will ensure that all electrified door hardware, transfer hinges and wiring are provided, installed and terminated from door frame by the door Hardware Vendor (wiring from access control panel down the door frame will be provided and installed by the Access Control Vendor). The Construction Professionals will ensure to specify that all door hardware is to be 24VDC. Door hardware vendor is responsible for all electrified door trouble calls within the door hardware warranty period; and that the door hardware vendor will collaborate with the RCIT access control group to troubleshoot and resolve the reported incident.

DOOR POWER: All electrified crash bars, lever-sets and mortise locks will need a 3/4-inch EMT conduit stubbed into the hinge side of the door frame. All electrified strikes will need a 3/4-inch EMT conduit stubbed into the latch side of the door frame. Conduit shall be installed from the door frame to the accessible ceiling. All access control door operators (e.g. ADA doors) will need a 3/4-inch EMT conduit stubbed into the motor control junction box. Conduit

DOOR CONTACT: Provide one 3/4-inch EMT conduit pipe stubbed into the top of the door frame. Conduit shall be installed from the door frame to the accessible ceiling. A 3/4-inch recessed door contact will be used on all metal doors and frames. A 3/8-inch recessed door contact will be used on all non-metal doors and frames (vinyl, wood, et cetera). Door contacts will be installed at the top of the door at 6 inches from the latch side of the door.

DOOR RELEASE BUTTON: When installed under a desk, provide one 3/4-inch EMT conduit pipe and one 4-inch W x 4 in H x 2.5 in D junction box with a single gang mud ring installed in vertical position at the same height as the adjacent electrical outlet. When installed on a wall, provide one 3/4-inch EMT conduit pipe and (1) 4-inch W x 4 in H x 2.5 in D junction box with a single gang mud ring installed in vertical position at a height that conforms to the ADA requirements as determined by the Architect of Record; without clear direction from the Architect, install the outlet at 44 inches AFF to the center of the backbox. Conduit shall be installed from the junction box to the accessible ceiling.

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SEAL

FLOOD CONTROL

Telecom Floor Plan

1995 Market St, Riverside, 92501

REVISION	DATE	DESCRIPTION

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SHEET TITLE:
TR-1A
FLOOR PLAN

T1-3
SHEET OF

G:\Data\Telephone\Engineering\Active Projects\Riverside\Flood Control\1995 MARKET\1995 Flood Control Remodel\Drawings\Floor Plans\Flood Floor Plan.dwg

SECURITY GENERAL NOTES

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CR-12

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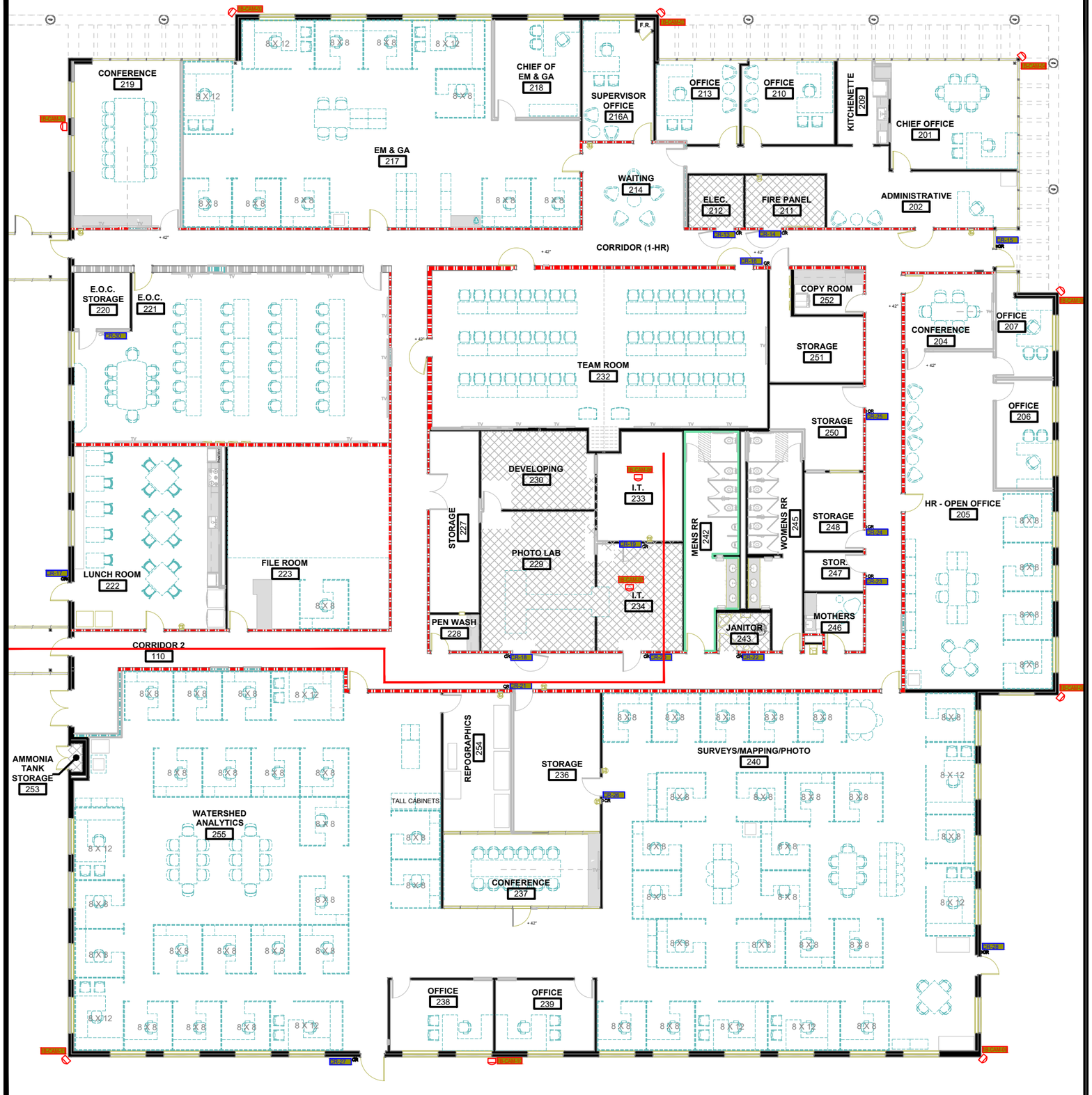

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SEAL

FLOOD CONTROL

Telecom Floor Plan

1995 Market St, Riverside, 92501

REVISION	DATE	DESCRIPTION

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SHEET TITLE:

TR-1A
FLOOR PLAN

T1-4
SHEET OF

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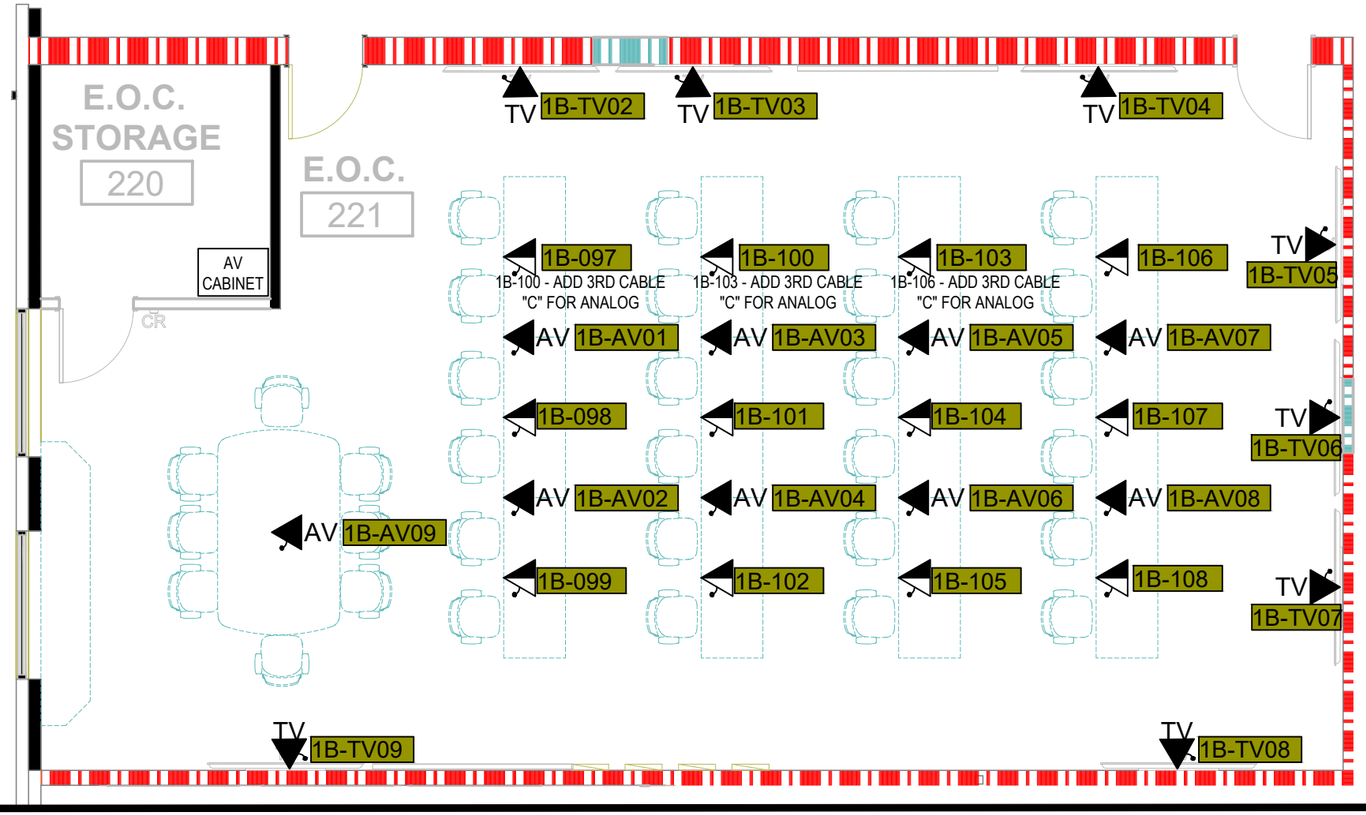


KEY NOTES

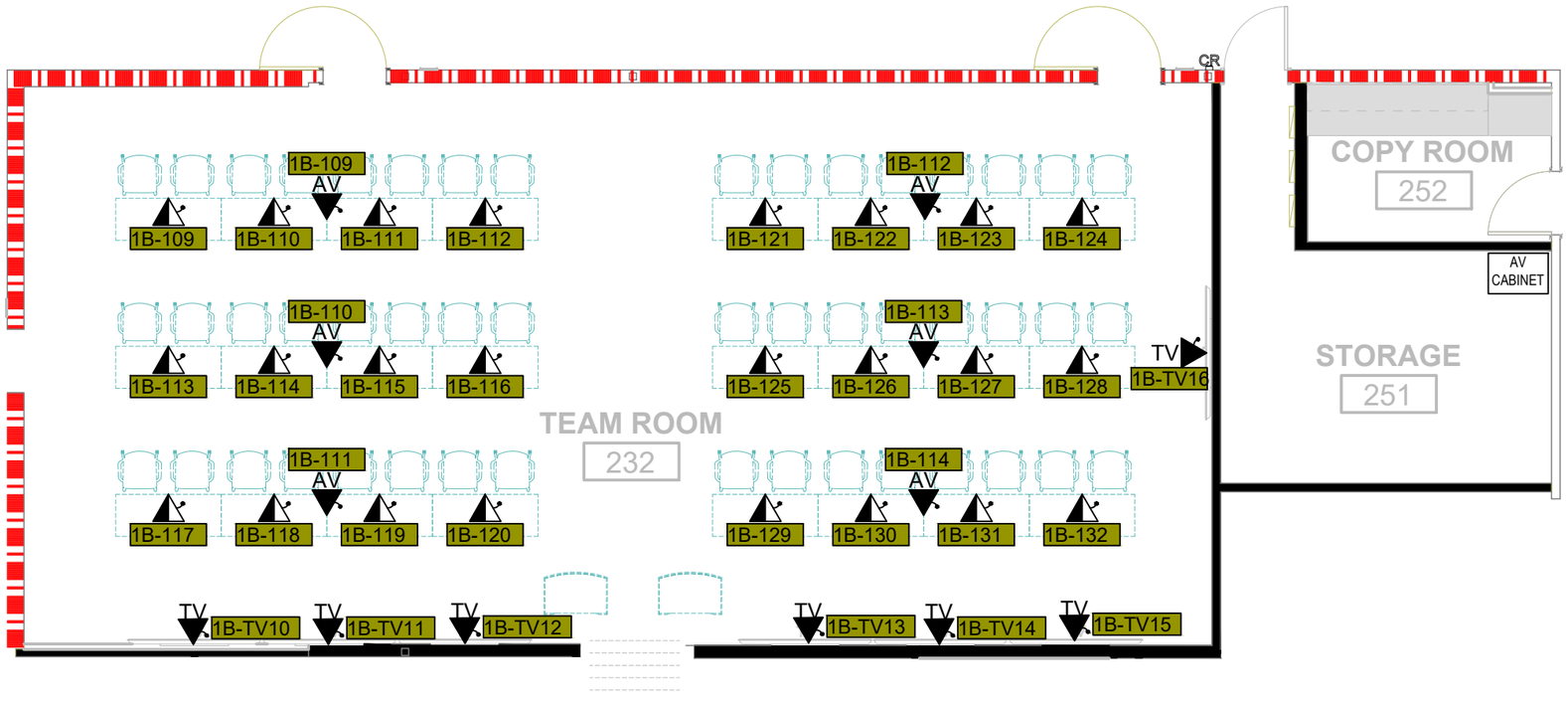
NETWORK DATA PORTS: INSTALLATION OF (2) CAT6 CABLES, BOTH CABLE INSTALLED TO THE TELECOM ROOM 1B, ROOM 233.

AV

AUDIO VISUAL PORTS: INSTALLATION OF (2) CAT6 CABLES
(1) CABLE INSTALLED TO THE TELECOM ROOM 1B, ROOM 233.
(1) CABLE INSTALLED TO THE AV CABINET IN ROOM 220.

TV

TV PORTS: INSTALLATION OF (2) CAT6 CABLES
(1) CABLE INSTALLED TO THE TELECOM ROOM 1B, ROOM 233.
(1) CABLE INSTALLED TO THE AV CABINET IN ROOM 220.



KEY NOTES

NETWORK DATA PORTS: INSTALLATION OF (2) CAT6 CABLES, BOTH CABLE INSTALLED TO THE TELECOM ROOM 1B, ROOM 233.

AV

AUDIO VISUAL PORTS: INSTALLATION OF (2) CAT6 CABLES
(1) CABLE INSTALLED TO THE TELECOM ROOM 1B, ROOM 233.
(1) CABLE INSTALLED TO THE AV CABINET IN ROOM 251.

TV

TV PORTS: INSTALLATION OF (2) CAT6 CABLES
(1) CABLE INSTALLED TO THE TELECOM ROOM 1B, ROOM 233.
(1) CABLE INSTALLED TO THE AV CABINET IN ROOM 251.

RCIT

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SEAL

FLOOD CONTROL

EOC & TEAM ROOM

1995 Market St, Riverside, 92501

REVISION	DATE	DESCRIPTION
	3/20/2019	SIGNAL PLAN REVIEW

PROJECT NO:
CAD DWG FILE:
DRAWN BY:
CHECKED BY: ANGEL ROCHA
DATE: APRIL 2025
SCALE: NTS

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SHEET TITLE:

EOC & TEAM ROOM FLOOR PLAN

T1-5

SHEET OF

G:\Data\Telephon\Engineering\Active Projects\Riverside\Flood Control\1995 MARKET\1995 Flood Control Remodel\Drawings\Floor Plans\Flood Floor Plan.dwg

GENERAL NOTES

WHERE CONDUIT STUB-OUTS ARE LOCATED NEAR A CEILING SPACE THAT IS INACCESSIBLE, THE CONDUIT END SHALL TERMINATE IN AN ACCESSIBLE PORTION OF THE CEILING SPACE

KEY NOTES

STANDARD HEIGHT WALL WORK AREA OUTLET: ELECTRICIAN TO INSTALL ONE (1) 1" EMT CONDUIT (FLEX NOT ALLOWED) STUBBED INTO THE CEILING SPACE, 5S BOX, SINGLE-GANG REDUCER, REAM AND ADD BUSHING. HEIGHT SHALL BE 18" A.F.F. OR MATCH ELECTRICAL OUTLET HEIGHT, U.O.N. EXACT LOCATION TO BE VERIFIED WITH FURNITURE VENDOR. WHERE CONDUIT STUB-OUTS ARE LOCATED NEAR A CEILING SPACE THAT IS INACCESSIBLE; THE CONDUIT END SHALL BE EXTENDED TO AN ACCESSIBLE PORTION OF THE CEILING SPACE.

F

FURNITURE FEED FLOOR BOXES: ELECTRICIAN TO INSTALL WIREMOLD *P/N EFBFF* OR EQUIVALENT POWER & DATA FLOOR BOX. COLOR TO BE SPECIFIED BY ARCHITECT. INSTALL TWO (2) 1.25" CONDUITS (FLEX NOT ALLOWED) WITH PULL STRING FOR VOICE AND DATA CONNECTIVITY. CONDUIT SHALL BE CONTINUOUS TO THE NEAREST WALL AND STUBBED UP INTO THE CEILING SPACE OF THE SAME FLOOR AS THE AREA BEING SERVED. CONDUIT SHALL HAVE NO MORE THAN TWO (2) 90 DEGREE BENDS, REAM ALL CONDUIT ENDS AND FIT WITH INSULATED BUSHINGS. ALL BOXES SHALL BE CONFIGURED FOR DUAL SERVICE WHICH WILL REQUIRE ACCESSORY ITEMS FOR SEPARATION OF POWER AND DATA. ALL BOXES SHALL INCLUDE (1) WIREMOLD *P/N EFBFF-DIV* OR EQUIVALENT POWER AND DATA DIVIDER; (1) WIREMOLD *P/N FP-CTR RING* OR EQUIVALENT NONMETALLIC RING; (1) WIREMOLD *P/N EFBFF-CLL* OR EQUIVALENT CONCRETE LEVELING LEGS; (1) WIREMOLD *P/N FPFFTCBK* FURNITURE FEED COVER ASSEMBLY. ***FLOOR BOXES MAY NOT BE CONNECTED TOGETHER OR DAISY CHAINED FOR ANY REASON. EXACT LOCATION TO BE VERIFIED WITH FURNITURE VENDOR.***

TV

TV DISPLAY WORK AREA OUTLET: ELECTRICIAN TO INSTALL ONE (1) 1.25" EMT CONDUIT (FLEX NOT ALLOWED) STUBBED INTO THE CEILING SPACE, 5S BOX, 2-GANG RING, REAM AND ADD BUSHING. HEIGHT SHALL BE 70" A.F.F , U.O.N. FINAL HEIGHT TO BE DETERMINED BY AV VENDOR

POWER AND AUDIO / VIDEO FLOOR BOXES: PROVIDE WIREMOLD ***P/N RFB11-OG*** POWER & A/V FLOOR BOX. COLOR TO BE SPECIFIED BY ARCHITECT. INSTALL TWO (2) 1.25" CONDUIT (FLEX NOT ALLOWED) FOR A/V. CONDUIT SHALL BE CONTINUOUS TO THE NEAREST WALL AND STUBBED UP INTO THE CEILING SPACE OF THE SAME FLOOR AS THE AREA BEING SERVED. NO MORE THAN (2) 90'S ALLOWED. REAM ALL CONDUIT ENDS AND FIT WITH INSULATED BUSHINGS.ALL BOXES SHALL BE CONFIGURED FOR DUAL SERVICE WHICH WILL REQUIRE ACCESSORY ITEMS FOR SEPARATION OF POWER AND A/V.

SYSTEMS FURNITURE IN-FEED: ELECTRICIAN TO INSTALL TWO (2) 1.25" EMT CONDUIT (FLEX NOT ALLOWED) STUBBED INTO THE CEILING SPACE, 5S BOX, TWO-GANG MUD-RING, REAM AND ADD BUSHING. HEIGHT SHALL BE APPROX. 18" A.F.F. OR MATCH ELECTRICAL OUTLET HEIGHT, U.O.N. ONE (1) SYSTEMS FURNITURE IN-FEED IS REQUIRED FOR EVERY 8 SYSTEM FURNITURE LOCATIONS OR A TOTAL OF 24 CABLES; ADD SUFFICIENT QUANTITIES TO ACCOMMODATE THIS RATIO. EXACT LOCATION TO BE VERIFIED WITH FURNITURE VENDOR.

SF

SYSTEMS FURNITURE IN-FEED: ELECTRICIAN TO INSTALL ONE (1) 1.25" EMT CONDUIT (FLEX NOT ALLOWED) STUBBED INTO THE CEILING SPACE, 5S BOX, TWO-GANG MUD-RING, REAM AND ADD BUSHING. HEIGHT SHALL BE APPROX. 18" A.F.F. OR MATCH ELECTRICAL OUTLET HEIGHT, U.O.N. ONE (1) SYSTEMS FURNITURE IN-FEED IS REQUIRED FOR EVERY 4 SYSTEM FURNITURE LOCATIONS OR A TOTAL OF 8 CABLES; ADD SUFFICIENT QUANTITIES TO ACCOMMODATE THIS RATIO. EXACT LOCATION TO BE VERIFIED WITH FURNITURE VENDOR.

PP

POWER POLE: INSTALLED BY FURNITURE VENDOR. SIZE AND LOCATION TBD.

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SEAL

FLOOD CONTROL

RCIT REQUIREMENTS

1995 Market St, Riverside, 92501

REVISION	DATE	DESCRIPTION
	3/20/2025	SIGNAL PLAN REVIEW

PROJECT NO:
CAD DWG FILE:
DRAWN BY:
CHECKED BY: ANGEL ROCHA
DATE: APRIL 2025
SCALE: NTS

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SHEET TITLE:

1ST FLOOR BUILDING 1

T.1

SHEET OF

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GENERAL NOTES

WHERE CONDUIT STUB-OUTS ARE LOCATED NEAR A CEILING SPACE THAT IS INACCESSIBLE, THE CONDUIT END SHALL TERMINATE IN AN ACCESSIBLE PORTION OF THE CEILING SPACE

KEY NOTES

STANDARD HEIGHT WALL WORK AREA OUTLET: ELECTRICIAN TO INSTALL ONE (1) 1" EMT CONDUIT (FLEX NOT ALLOWED) STUBBED INTO THE CEILING SPACE, 5S BOX, SINGLE-GANG REDUCER, REAM AND ADD BUSHING. HEIGHT SHALL BE 18" A.F.F. OR MATCH ELECTRICAL OUTLET HEIGHT, U.O.N. EXACT LOCATION TO BE VERIFIED WITH FURNITURE VENDOR. WHERE CONDUIT STUB-OUTS ARE LOCATED NEAR A CEILING SPACE THAT IS INACCESSIBLE; THE CONDUIT END SHALL BE EXTENDED TO AN ACCESSIBLE PORTION OF THE CEILING SPACE.

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SEAL

FLOOD CONTROL

RCIT REQUIREMENTS

1995 Market St, Riverside, 92501

REVISION	DATE	DESCRIPTION
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SHEET TITLE:

1ST FLOOR BUILDING 1A

T.2

SHEET OF

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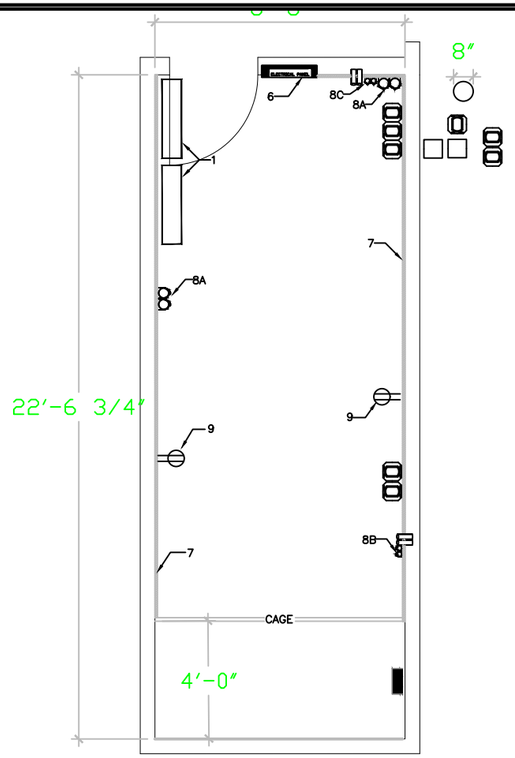

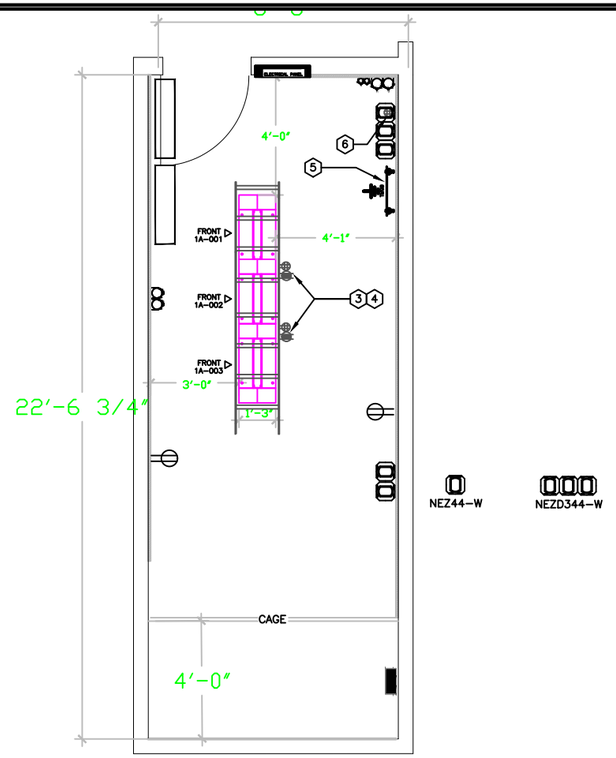

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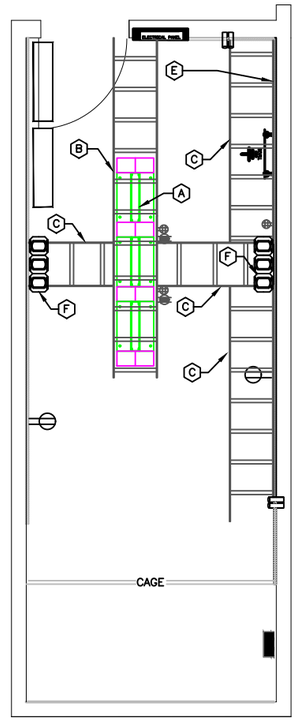

TELECOM ROOM REQUIREMENTS

1. INSTALL (2) STANDALONE ENVIRONMENTAL CONTROL SYSTEMS (ONE AS A REDUNDANT). THE ENVIRONMENTAL CONTROL SYSTEM SHOULD BE ABLE TO MAINTAIN A TEMPERATURE BETWEEN 18 DEGREES CELSIUS AND 24 DEGREES CELSIUS (64 DEGREES FAHRENHEIT AND 75 DEGREES FAHRENHEIT) AT ALL TIMES (24 HOURS PER DAY, 365 DAYS PER YEAR). SENSORS AND CONTROLS MUST BE LOCATED IN THE EQUIPMENT ROOM PLACED 5 FT. AFF. REFRIGERANT AND CONDENSATION LINES MUST NOT BE PLACED ABOVE ANY PORTION OF THE COMPUTER RACKS OR DESIGNATED TELEPHONE, RADIO, PAGING, OR ALARM SYSTEMS. ESTIMATED HEAT LOAD FOR THE TELECOM ROOM IS 24,000 BTU'S.
2. FREE OF DUST AND OTHER CONTAMINATES.
3. COVER FLOOR WITH LIGHT COLORED VCT TILE, INSTALLED ACCORDING TO MANUFACTURES SPECIFICATIONS. MINIMUM LOAD BEARING OF 100 LB/SQ-FT.
4. SPACE SHALL BE FREE OF WATER AND DRAIN PIPES TO AVOID CONDENSATION DRIPPING ON CABLES AND ELECTRONIC EQUIPMENT.
5. INSTALL 4-BULB, 48 INCH LONG LIGHT FIXTURES. FIXTURES SHOULD NOT BE INSTALLED DIRECTLY ABOVE CABLE LADDERS. ROOM LIGHTING SHALL HAVE A MINIMUM OF 500 LUX (50 FOOT CANDLES). DO NOT USE DIFFUSER LIGHT FIXTURE GRILLS. POWER FROM LIGHTING SHOULD NOT COME FROM THE ELECTRICAL PANEL INSIDE THE TELECOMMUNICATIONS ROOM
6. INSTALL RECESSED-MOUNTED CIRCUIT BREAKER SUB PANEL. ONLY TELECOM ROOM ELECTRICAL CIRCUITS WILL TERMINATE IN THIS SUB PANEL.
7. PLYWOOD: 3/4" AC GRADE, VOID FREE, FIRE RATED PLYWOOD ON ALL WALLS AS INDICATED, (8 FOOT HIGH SHEETS). THE PLYWOOD SHOULD BE INSTALLED WITH THE GRADE A-SIDE FACING THE WALL. THE PLYWOOD SHALL BE INSTALLED AT 12 INCHES AFF AND 8 FEET UPWARDS FROM THERE, USE FLUSH HARDWARE AND SUPPORTS TO MOUNT THE PLYWOOD. ONE COAT OF PRIMER AND TWO COATS OF WHITE FIRE RESISTANT PAINT.
8. A. INSTALL FOUR (4) 4" EMT SLEEVES INTO CEILING SPACE AS SHOWN.
   SLEEVES SHOULD PROTRUDE THROUGH THE THE CEILING 2"-TO-4" IN ROOM.
   B. INSTALL TWO (2) 2" EMT CONDUITS FROM TR-1A TO TR-1X.
   C. INSTALL TWO (2) 2" EMT CONDUITS FROM TR-1A TO TR-1B.
   CONDUIT SHALL NOT HAVE MORE THAN (2) 90 DEGREE BENDS WITHOUT A PULL BOX BEING INSTALLED (PULL BOX SIZE SHALL BE APPROVED BY RCIT TELECOMMUNICATIONS ENGINEER). PROVIDE PLASTIC BUSHINGS ON EACH END OF THE CONDUIT/SLEEVES. CONTACT RCIT (RIVERSIDE COUNTY INFORMATION TECHNOLOGY) TELECOMMUNICATIONS ENGINEER FOR EXACT LOCATION PRIOR TO INSTALLATION. PULL STRING SHALL BE PROVIDED.
9. INSTALL (2) GENERAL PURPOSE/CONVENIENCE 120 VAC, 20 AMP ELECTRICAL DUPLEX OUTLET AT 18 INCHES TO BOTTOM OF OUTLET OR MATCH STANDARD ELECTRICAL HEIGHT; TYPICAL.

TELECOM ROOM REQUIREMENTS 1-9 SHALL BE COMPLETED BY THE GENERAL CONTRACTOR.

TELECOM ROOM KEY NOTES:
EQUIPMENT FLOOR PLAN

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(4) INSTALL (2) DEDICATED 208 VAC, 30 AMP EMERGENCY CIRCUIT TERMINATED IN A 4S BOX ATTACHED TO THE CABLE RUNWAY. CIRCUIT WILL HAVE ITS OWN SEPARATE HOT, NEUTRAL, AND GROUND WIRES ALL THE WAY BACK TO THE POWER DISTRIBUTION PANEL. TERMINATE CIRCUIT ONTO A NEMA L6-30R TYPE OUTLET. CIRCUIT WILL BE CLEARLY LABELED WITH A MECHANICAL LABELER DEVICE USING WHITE TAPE WITH BLACK LETTERING (HAND WRITTEN IS NOT PERMITTED) ON THE ELECTRICAL OUTLET AND SUB-PANEL. REFER TO ATTACHED DRAWING FOR EXACT LOCATION.

(5) INSTALL (1) 3/0 AWG STRANDED GROUND WIRE FROM THE BUILDING GROUNDING ELECTRODE SOURCE TO THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) IN THE TELECOMMUNICATIONS ROOM. THE BUSS BAR WILL BE PROVIDED BY COUNTY INFORMATION TECHNOLOGY AND WILL BE MOUNTED TO THE WALL IN THE TELECOMMUNICATIONS ROOM BY THE CABLING CONTRACTOR. THE ELECTRICIAN IS RESPONSIBLE TO BOND THE GROUND WIRE TO THE BUSBAR.

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TELECOM ROOM REQUIREMENTS 3-6 SHALL BE COMPLETED BY THE GENERAL CONTRACTOR.

TELECOM ROOM KEY NOTES:
CABLE TRAY FLOOR PLAN

(A) 2-POST UNIVERSAL RACK, CPI #46353-703 (TYP OF 3), VERTICAL CABLE MANGER CPI #30165-703 (TYP OF 4).
MAINTAIN 3-FEET WORKING CLEARANCE IN FRONT AND REAR OF RACKS.

(B) 18" LADDER RUNWAY CPI #31472-718 ALTERNATE SPACED (AS REQ.) OVER EQUIPMENT RACKS ONLY, MOUNTED AT 7'-6" AFF.

(C) 18" LADDER RUNWAY CPI #10250-718 (AS REQ.) ALL PERIMETER WALLS MOUNTED AT 7'-6" AFF.

(D) TELECOM CONTRACTOR REQUIRED TO TURN OVER A FULLY FUNCTIONAL ROOM. PARTS LISTED BELOW ARE AS REQUIRED, BUT ARE NOT LIMITED TO...
WALL ANGLE SUPPORT KIT CPI #11421-718;
TRIANGULAR WALL SUPPORT BRACKETS CPI #11312-718;
JUNCTION-SPLICE KIT CPI #16302-001;
BUTT-SPLICE KIT CPI (#11301-701);
5/8" THREADED CEILING KIT CPI #11310-003;
RUNWAY RADIUS DROP CPI #12100-718 (TYP of 6) 2 PER/RACK;
RACK-TO-RUNWAY MOUNTING PLATE CPI #10595-718 (TYP of 3);
CABLE RUNWAY ELEVATION KIT CPI #10506-706 (TYP of 3);

(E) WALL SPACE RESERVED FOR ACCESS CONTROL.

(F) INSTALL (2) STI NEZD344-W SMOKE AND ACOUSTICAL PATHWAY.

ALL COMMUNICATIONS RACKS AND CABLE RUNWAY WILL BE INSTALLED BY THE RCIT CABLING CONTRACTOR.

THIS IS A PRELIMINARY DRAWING OF THE TELECOMMUNICATIONS ROOM. LAYOUT IS NOT FINAL AND WILL NEED TO BE CONFIRMED BY RCIT AFTER TELE/DATA, AV AND SECURITY PLANS HAVE BEEN FINALIZED. RCIT WILL CONFIRM FINAL LAYOUT TO 100%CD.

Riverside County Information Technology

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Riverside, CA 92501

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SEAL

FLOOD CONTROL

TELECOM ROOM BUILD-OUT

1995 Market St, Riverside, 92501

REVISION	DATE	DESCRIPTION

PROJECT NO:
CAD DWG FILE:
DRAWN BY:
CHECKED BY: ANGEL ROCHA
DATE: APRIL 2025
SCALE: NTS

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SHEET TITLE:

TELECOM ROOM
TR-1A
BUILD-OUT

TR.3

SHEET OF

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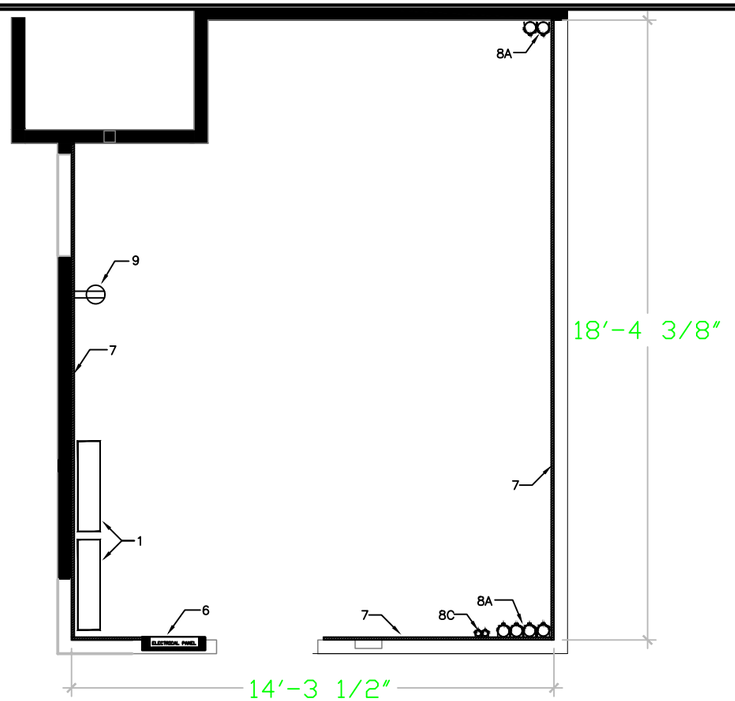

TELECOM ROOM REQUIREMENTS

1. INSTALL (2) STANDALONE ENVIRONMENTAL CONTROL SYSTEMS (ONE AS A REDUNDANT). THE ENVIRONMENTAL CONTROL SYSTEM SHOULD BE ABLE TO MAINTAIN A TEMPERATURE BETWEEN 18 DEGREES CELSIUS AND 24 DEGREES CELSIUS (64 DEGREES FAHRENHEIT AND 75 DEGREES FAHRENHEIT) AT ALL TIMES (24 HOURS PER DAY, 365 DAYS PER YEAR). SENSORS AND CONTROLS MUST BE LOCATED IN THE EQUIPMENT ROOM PLACED 5 FT. AFF. REFRIGERANT AND CONDENSATION LINES MUST NOT BE PLACED ABOVE ANY PORTION OF THE COMPUTER RACKS OR DESIGNATED TELEPHONE, RADIO, PAGING, OR ALARM SYSTEMS. ESTIMATED HEAT LOAD FOR THE TELECOM ROOM IS 24,000 BTU'S.
2. FREE OF DUST AND OTHER CONTAMINATES.
3. COVER FLOOR WITH LIGHT COLORED VCT TILE, INSTALLED ACCORDING TO MANUFACTURES SPECIFICATIONS. MINIMUM LOAD BEARING OF 100 LB/SQ-FT.
4. SPACE SHALL BE FREE OF WATER AND DRAIN PIPES TO AVOID CONDENSATION DRIPPING ON CABLES AND ELECTRONIC EQUIPMENT.
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8. A. INSTALL FOUR (6) 4" EMT SLEEVES INTO CEILING SPACE AS SHOWN.
   SLEEVES SHOULD PROTRUDE THROUGH THE THE CEILING 2"-TO-4" IN ROOM.
   B. N/A
   C. SEE TR-1A FOR INSTALL NOTES.
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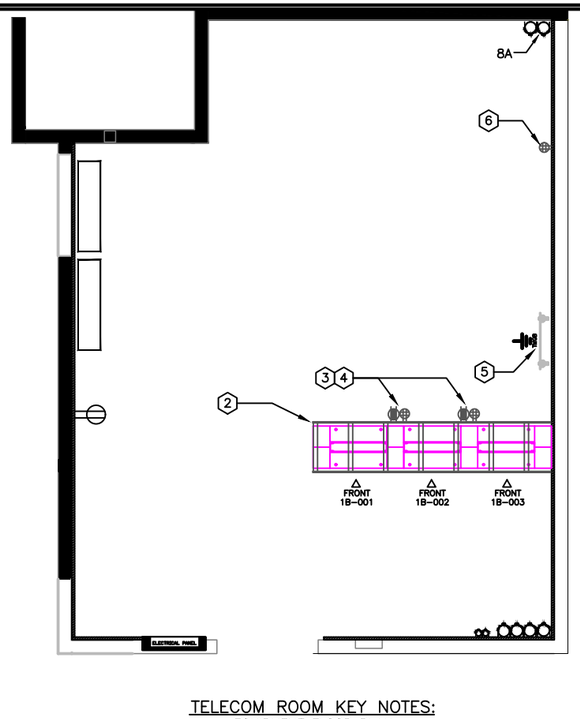

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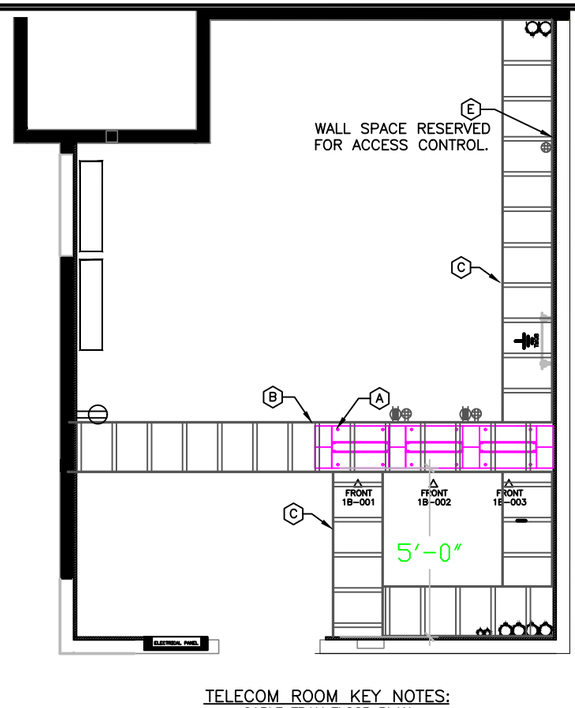

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(E) WALL SPACE RESERVED FOR ACCESS CONTROL.

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SEAL

FLOOD CONTROL

TELECOM ROOM BUILD-OUT

1995 Market St, Riverside, 92501

REVISION	DATE	DESCRIPTION

PROJECT NO:
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CHECKED BY: ANGEL ROCHA
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SCALE: NTS

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SHEET TITLE:
TELECOM ROOM
TR-1B
BUILD-OUT

TR.4
SHEET OF

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ADDENDUM # 02 – April 17, 2026
Flood Control and Water Conservation District
Tenant Improvement Project

Narrative of Architectural and RCIT Construction Document Changes

The below items summarize the revisions clouded as part of Delta 2 – Bid Addendum #02.

SHEET	NARRATIVE OF CHANGES
G-1.1	Added Sheets T1-3, T1-4, T1-5, TR.3 and TR.4 to Sheet Index.
A1-1.1	Removed Protection Keynote Callout from plan. Omitted Protection Keynote. Added DN.16, DN.17, DN.18, DN.19, DN.20, DN.21, DN.22, DN.23. Omitted PN.01 and PN.02. Revised fire extinguishers to remain in place where located on walls which are to remain.
A1-1.2	Revised DN.15 for clarity. Added DN.16 for trenching of new plumbing on existing concrete. Added DN.17 to remove motorized door push button for reuse and relocation at women's restroom. Added DN.18, DN.19, DN.20, DN.21, DN.22 callouts to plan and descriptions. Added PN.03 to protect in place existing motorized door push button located at the entry of women's restroom. Added PN.04 callout on plan and at Keynotes.
A1-3.1	Added DN.05 to demolish cove lighting in Lunch Room.
A1-3.2	Added DN.05 to demolish cove lighting in File Room. Added DN.04 to carefully remove for reuse and relocation for sound masking device. Added PN.02.
A2-1.1	Updated General Note #9 with detail reference. Revised SN.01 description.

	Revised location of Card Reader at Door 102B. Added SN.03 callout to plan and Sheet Keynotes.
A2-1.2	Added SN.08 to provide new connection for relocated motorized door push button. Updated General Note #9 with detail reference. Revised SN.01 description.
A2-3.1	Removed WC3 callout location across Finance. Added WC3 callout at Lunch Room corridor.
A2-3.2	Removed WC3 locations in corridors.
A2-4.1	Added additional (1) 80" TV in Conference Room 119 with data and power. Added card reader to Vestibule 101 exterior of door. Added card readers to Corridor 1 #111 and Corridor 2 #110 to patio. Added callout for Sheet Keynote SN.01 on plan and revised description.
A2-4.2	Revised TV in Conference Room 219 from (1) 80" TV to (2) 65" TV's with data and power. Updated Equipment Schedule with G1 for 65" TV. Added card reader to EM & GA 217 door. Added Scheduling Tablet to E.O.C. 221 door with j-box. Added floor power and data outlets to Team Room 232.
A3-1.1	Added wall mounted cameras per Technology Sheets T-4.2.
A3-1.2	Added wall mounted cameras per Technology Sheets T-4.3. Added the relocated sound masking devices.
A5-1.1	Added extended view of Elevation 1B with TV alignment callout and SN.03 relocation of fire alarm. Added WC5 at Elevation 1A.
A5-1.5	Revised Elevation #2 with (2) TV's.

A6-1.1	Added WC5.
A6-2.1	Doors 102B & 236B changed to door type A. Revised Hardware Groups. Revised Hardware Finish. Omitted Door Note #4 as it is not applicable. Revised door height for Doors 102A and 255.
A6-2.2	Removed.

Electrical

- E-0.1: ELECTRICAL LEGENDS AND NOTES
  a. Added photocell symbol
- E-0.2: LUMINAIRE SCHEDULE
  a. Revised lighting catalog number for fixture types F15B and F15C
- E-4.1: ELECTRICAL REMODEL LIGHTING PLAN – BUILDING 1A
  a. Added F15B linear light fixture along "history wall" near the reception
  b. Added F15C linear light fixture at skylight in Lunch Room 130
  c. Added photocell for control of F15C linear light fixture at skylight in Lunch Room 130
- E-4.2: ELECTRICAL REMODEL LIGHTING PLAN – BUILDING 1
  a. Added F15C linear light fixture at skylight in File Room 223
  b. Added photocell for control of F15C linear light fixture at skylight in File Room 223
- E-2.2: ELECTRICAL DEMOLITION PLAN - BUILDING 1
  a. Update to the Women's Restroom. One Door push button was relocated per architectural drawings
- E-5.2: ELECTRICAL REMODEL PLAN - BUILDING 1
  a. Added power in Conference room 219
  b. Added floor power receptacles in Conference 232
  c. Added power for plumbing fixtures Men & Women RR – 242,245
  d. Added power receptacles for LV equipment in IT 233 & Security 251
- E- E-5.1: ELECTRICAL REMODEL PLAN - BUILDING 1A
  a. Revised power pole location Finance 120
  b. Added power pole in Finance 120
  c. Added TV receptacles in Conference 119
  d. Added power in Women and Men restroom for Plumbing fixtures
  e. Added additional power receptacles for IT equipment in IT storage 134

Mechanical

- M-2.2: MECHANICAL DEMOLITION PLAN – BUILDING 1
  a. Revised plan to show replacement of ceiling diffusers in connecting corridors.
- M-3.5: MECHANICAL REMODEL PLAN – BUILDING 1
  a. Revised plan to show replacement of ceiling diffusers in connecting corridors.

Plumbing

- P-0.1: PLUMBING LEGENDS NOTES & SCHEDULES
  a. Revised Fixture Schedule (L-1) selection.
- P-4.1: PLUMBING ENLARGED PLANS – BUILDING 1A
  a. Highlighted fixtures that have been updated in the Fixture Schedule.
- P-4.2: PLUMBING ENLARGED PLAN – BUILDING 1
  a. Highlighted fixtures that have been updated in the Fixture Schedule.

Technology

- T-0.1: TECHNOLOGY LEGENDS & NOTES
  a. Revised symbol legend
  b. Added responsibility matrix
- T-2.1: TECHNOLOGY DEMOLITION PLAN -BUILDING 1A
  a. Revised entire sheet and notes
- T-2.2: TECHNOLOGY DEMOLITION PLAN -BUILDING 1B
  a. Revised entire sheet and notes
- T-4.2: TECHNOLOGY REMODEL PLAN -BUILDING 1A
  a. Revised entire sheet and notes
- T-4.3: TECHNOLOGY REMODEL PLAN -BUILDING 1B
  a. Revised entire sheet and notes
- T-5.1: TECHNOLOGY DETAILS
  a. Revised details
- T-5.2: AV SINGLE LINES
  a. Revised single lines.
- 27 41 16: AUDIOVISUAL SYSTEMS
  a. Revised specifications
- 27 41 16 Audiovisual Systems
  a. Revised specifications
- 28 10 00 Access Control and Alarm Management System
  a. Revised specifications
- 28 16 00 Intrusion Detection System
  a. Revised specifications
- 28 20 00 Video Surveillance System
  a. Revised specifications

- END -

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ADDENDUM # 02 – April 17, 2026
Flood Control and Water Conservation District
Tenant Improvement Project

Bid RFI Responses

- **RFI 003A –** The specifications indicate the use of Schlage mortise ND series locksets. However, the remaining hardware (hinges, cores, surface closers, etc.) is not specified. Could you please provide the required manufacturers and models for these items?
    - **RESPONSE:** There are no restrictions on the manufacturers and models of the hardware mentioned. GC-submittal spec must meet performance requirements provided in Specifications: Section 087100.

- **RFI 003B –** In the door notes, Note 4 states: "*Door hardware manufacturer and finish to match building standards where applicable.*" Can you please provide the applicable building standards so we can ensure our cost aligns with the project requirements?
    - **RESPONSE:** Note has been omitted because it doesn't apply. Please disregard.

- **RFI 003C –** For the existing doors, hardware groups are listed. Should we assume that only the existing hardware is to be replaced, unless noted otherwise? For example, Building 1A, Door E-A35 is assigned Hardware Group 4, with a note indicating "existing panic hardware/card reader." Can you confirm that, for this door, we are to replace only the hinges, core, surface closer, wall stop, and silencers? Please advise.
    - **RESPONSE:** For doors indicated as existing on the Door Schedule and by their ID tag with prefix "E-", no changes will be made to the door. Existing doors are to be protected in place.

- **RFI 004A –** The specifications list 3M Safety Security Film S600, but the Finish Schedule on the plans lists 3M Prestige 50 Solar Window Films. The film performance listed match up with the Prestige 50 Solar Window Film listed on the plans. Are we doing both or just one? Please advise.
    - **RESPONSE:** Please only install one film spec: 3M Safety Security Film S800 on the interior-side of exterior glazing as specified on plans.

- **RFI 004B –** The specifications note locations for safety security window film as "*fence line windows below 8ft.*" … "*public facing windows below 8 ft.*", and "*classroom storefront main entry doors.*" None of these seem applicable except for maybe the last one for the reception waiting 102A. Is this the one and only location for the security film? Please advise.

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  - **RESPONSE:** The only location for the specified window film is at the interior-side of exterior glazing at Reception Waiting 102A.

- **RFI 004C –** The Reception/Waiting 102A is also the location where the plans show getting the 3M Prestige Solar Film. Which one should be installed? Please advise.
  - **RESPONSE:** Please install 3M Safety Security Film S800.

- **RFI 005A –** Opening #102B lists a Door Type "G"; however, Door Type "G" is not listed on the door schedule. Please clarify the correct door type for this opening.
  - **RESPONSE:** Door Type A

- **RFI 005B –** Opening #236B lists a Door Type "E"; however, Door Type "E" is not listed on the door schedule. Please clarify the correct door type for this opening.
  - **RESPONSE:** Door Type A

- **RFI 005C –** The drawings indicate that most interior aluminum frames are notes as "paint", while others labeled "anno". However, the specifications only reference anodized finishes (clear and color). Please confirm the following: Are all aluminum frame openings intended to have an anodized finish? Should frames specifically labeled "anodized" on the plans be interpreted as clear anodized? Should frames labeled "paint" be interpreted as color anodized? If so, please confirm the specified color.
  - **RESPONSE:** Where frame finish is noted as "ANNO", provide clear anodized finish. Where frame finish is noted as "PT", provide factory finished thermal-setting acrylic finish. The Specification section has been adjusted. The final paint color will provided at a later date. Please provide a cost for painted frame where indicated on schedule.

- **RFI 006** – The finish schedule on Sheet A6-1.1 lists WC1, WC2, WC3, and WC4 as a "Digital Image" from MDC Interiors Solutions, however there is no additional information or specification. Please provide a specification for this or advise if this will not be included.
  - **RESPONSE:** WC1, WC2, WC3, and WC4 will be included in the scope. For sizing, lengths are noted on floor plans and heights of wallcovering will be to ceiling height. All are custom digital printed wallcoverings designed by Architect. Refer to attachments SK-01, SK-02, SK-03, and SK-04 provided for reference only; final images will be provided at a later date.

- **RFI 007 –** We have identified conflicts in the design & specified hardware for the All Glass Door 102A (Door Type D) at the Reception Area in Building A1. The current hardware set (Hardware Set 06 - Electrically Locked Frameless Glass Pivot Doors) calls for patch fittings; however, the specified configuration will not allow the door to be electronically locked as intended. In order to have the door electronically locked and unlocked, we would have to add a door rail. Key concerns are as follows: "Overhead

Closer: Due to the height (9'-0"), a floor closer is strongly recommended for proper performance" "Patch Panel (Not Rail): If we use a patch fitting, there is no way to lock the door" "Vertical Pull Bars (Elmes Door Pulls G52-01-023-L600): In order to use this pull type, we would need a door rail to lock the door" "Remaining Hardware (Power Supply, Card Reader, Electric Strike): These components do not present conflicts." Please reference the examples attached, and advise on how to proceed.

  - **RESPONSE:** Yes, provide all necessary components (continuous bottom and top rail and recessed floor closer) required for frameless glass pivot door revised to 8'-0" tall so that it functions with electrically locking hardware. Refer to attachment SK-05.

- **RFI 008 –** Please advise if there is any environmental survey for the project. Hazardous material is noted as deferred submittal on sheet G1.1. Please also advise if any allowance shall be carried by all general contractors for abatement if any hazardous materials exist.
  - **RESPONSE:** Refer to Addendum #01 package for Asbestos & Lead Based Paint Survey Reports for both buildings. Carry a $10,000 allowance for hazardous material testing and abatement of items not identified in initial reports.

- **RFI 009** – Alternate #1 calls for the Course of Construction Insurance. Please advise if this refers to Builder's Risk insurance, General Liability or any other type of insurance. Also, please confirm if this alternate is to be included in the base bid, or stays as alternate.
  - **RESPONSE: "**Course of Construction Insurance" listed refers to "Builder's Risk Insurance", Yes, include this as an Alternate. General Liability and other insurance to be included in base bid.

- **RFI 010 –** Sheet A1-1.1 has one PN01 keynote pointing to a card reader in reception area, but the description of said keynote does not pertain to card readers system (calls to protect high density filing). Please advise.
  - **RESPONSE:** Demolish card reader.

- **RFI 011 –** SN.01 on sheet A2-1.1 calls for an alternate to install insulquilt at conference rooms, offices above ceiling, two feet each side of partition at building 1A. Sheet A2-1.2 has the similar note for building 1, except that it does not state alternate. Please clarify if directions for alternate pricing applies to both buildings or just building 1A.
  - **RESPONSE:** Please provide as an alternate in the bid.

- **RFI 012 –** Keynote SN01 on sheet A2-1.2 calls for insulquilt 2' each side of ceiling height partitions at all offices, break rooms and conference rooms. All walls in aforementioned rooms are shown to be full height, there is no ceiling height partitions in these rooms. Please advise.
  - **RESPONSE:** Please provide cost add alternate for insulquilt for 2' length above dropped ceiling on each side of the new extended full height partitions at all

offices, break rooms, and conferences.

- **RFI 013 –** There is an existing operable partition in building 1 Team room (232). Two alternates are calling to remove and replace the operable partition with a new one. Please advise if the existing steel beam will be sufficient to support the new partition or shall the alternate include an allowance for additional support.
    - **RESPONSE:** Please provide as an alternate cost in the bid. The work must be done by the existing manufacturer: Advanced Equipment Corp. (Wes Dickson wesleyd@aecorp.net 714.635.5350). The scope would be to protect in place the existing structure/track and provide new panels only.

- **RFI 014 –** Please advise who the fire alarm contractor of the building is.
    - **RESPONSE:** Refer to Bid Addedum #01 Supplemental Narrative under Sole-Source Sub-Contractor Services for fire alarm contractor: Rapid Fire Safety and Security (Greg Hillman greg.hillman@rapidfiress.com 951.352.7589 ext. 9101).

- **RFI 015 –** Please advise who the fire sprinkler contractor of the building is.
    - **RESPONSE:** There is no preferred fire sprinkler contractor.

- **RFI 016 –** Please advise if the County has a preferred vendor for audio/visual, security, access control and structural cabling. Please confirm all of these scope shall be part of the scope of this contract.
    - **RESPONSE:** This project includes scope for audio/visual, security, access control, and structural cabling all as part of contract bid scope.
    - Refer to the new Technology Drawings/Specifications, and RCIT drawings provided with Bid Addendum #02 for updates and scope of work.
    - RCIT PREFERRED VENDORS:
        - Data and Infrastructure Cabling: Intelinet (Chad Hilzer 951.526.6706)
        - Card Access Security and System: IE Alarm (Will Espinoza 909.208.5681)
        - Alt recommended vendor: Marquez Cabling (Felix Rodriguez felixr@marquezcable.com 562.922.5201).
    - RCIT Provided Scope (Not in bid scope): Switches, Routers, and Phones.

- **RFI 017 –** May the Sign-In sheet for the project Job Walk be provided?
    - **RESPONSE:** Yes, find attached as a supplemental document.

- END -

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ADDENDUM # 02 – April 17, 2026
Flood Control and Water Conservation District
Tenant Improvement Project

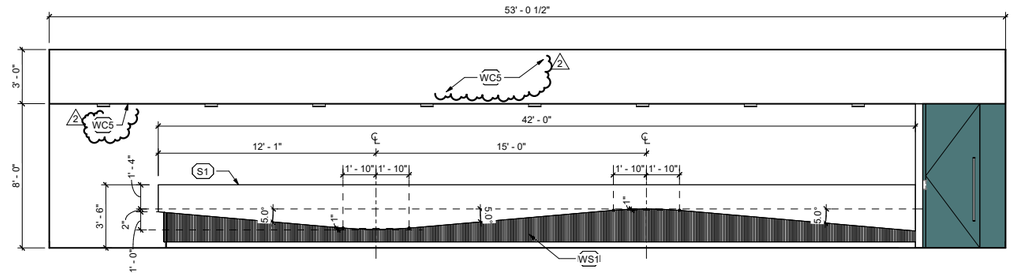
Supplemental Project Requirements Narrative:

- The following Contract Time are an update to the overall project duration requirements originally identified in the County Frontend Bid Package documentation (Update from Bid Addendum #01 is in red bold text):
  - Building 1A
    - Substantial Completion Duration – 150 Days
      - Within the 1st Week of Substantial Completion, the Punch Walk is to be scheduled and completed by project team.
      - Starting the 2nd Week of Substantial Completion, the FFE installation will begin and run concurrently to Contractor work.
    - Final Completion Duration – 30 Days
  - Transition Period – ~~90 Days~~ **120 Days**
  - Building 1
    - Substantial Completion Duration – 150 Days
      - Within the 1st Week of Substantial Completion, the Punch Walk is to be scheduled and completed by project team.
      - Starting the 2nd Week of Substantial Completion, the FFE installation will begin and run concurrently to Contractor work.
    - Final Completion – 30 Days

- END -

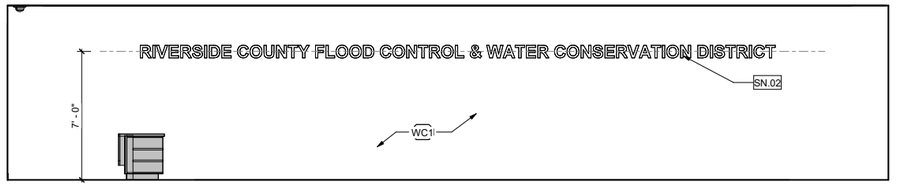
19900 MacArthur Blvd | Suite 1000 | Irvine, CA 92612 | p 949.250.0880 | f 949.250.0882 | web westgroupdesigns.com

WC5: IMAGE PRINTED UPSIDE DOWN
LOCATED AT FRONT FACE AND UNDERSIDE FACE OF SOFFIT ABOVE RECEPTION DESK. REFER TO ELEVATION 1A/A5-1.1.



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

WC1: IMAGE PRINTED RIGHT SIDE UP
LOCATED AT FULL LENGTH OF WALL BEHIND RECEPTION DESK. REFER TO ELEVATION 5A/A5-1.1.



5A
1/4" = 1'-0"

WEBSITE VECTOR IMAGE:
https://stock.adobe.com/search?k=mountain+landscape+vector&asset_id=267434405

REFERENCE RENDERING

ADMIN BUILDING TENANT IMPROVEMENT PROJECT
1995 MARKET STREET
RIVERSIDE, CA 92501

19900 MacArthur Blvd. Suite# 1000 Irvine, CA 92612
TEL: 949.250.0880 FAX: 949.250.0882

(WC1 & WC5) RECEPTION RM 102B WALLCOVERING

	25811
Date:	04/16/2026
Scale:	NTS
Reference Sheet:	-

ADDEN. 02
SK-01

WALL 1

WALL 2

WALL 3

WC2

LOCATED IN A DRYWALLED INSET AT 3 DIFFERENT WALLS

GRAPHIC VECTOR FILE TO BE PROVIDED AT A LATER DATE.

REFER TO RENDERINGS AND ELEVATIONS 1/A5-1.2 FOR DIMENSIONS.

WD

ADMIN BUILDING TENANT IMPROVEMENT PROJECT
1995 MARKET STREET
RIVERSIDE, CA 92501

19900 MacArthur Blvd. Suite# 1000 Irvine, CA 92612
TEL: 949.250.0880 FAX: 949.250.0882

(WC2) HISTORY WALL WALLCOVERING

	25811
Date:	04/16/2026
Scale:	NTS
Reference Sheet:	-

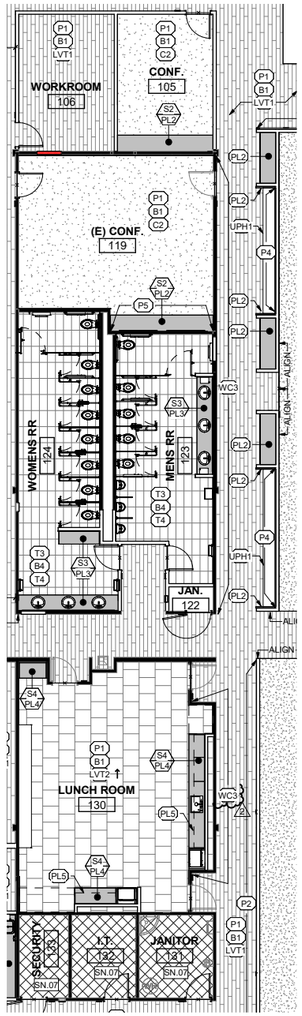
ADDEN. 02
SK-02

WC3

LOCATED AT BLDG 1A CORRIDOR WALL EAST OF (E) CONF ROOM 119, MENS RR 123, AND JAN 122 AND CONTINUES AT WALL EAST OF LUNCH ROOM 130

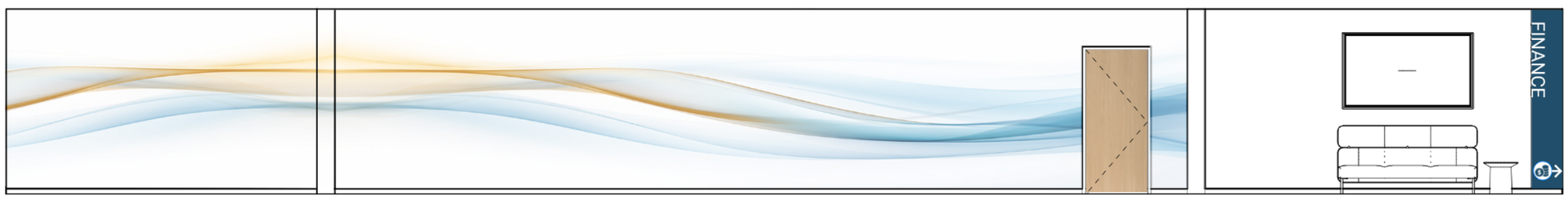
VECTOR IMAGERY FROM ADOBE STOCK.

REFER TO PLAN 1/A2-3.1 FOR LOCATIONS.



REFERENCE PLAN

REFERENCE RENDERING



REFERENCE ELEVATION - EAST OF (E) CONF 119, MENS RR 123, AND JAN 122

ADMIN BUILDING TENANT IMPROVEMENT PROJECT
1995 MARKET STREET
RIVERSIDE, CA 92501

(WC3) ORGANIC GRAPHIC WALLCOVERING

19900 MacArthur Blvd. Suite# 1000 Irvine, CA 92612
TEL: 949.250.0880 FAX: 949.250.0882

	25811
Date:	04/16/2026
Scale:	NTS
Reference Sheet:	-

ADDEN. 02
SK-03

WC4

LOCATED AT BLDG 1 CORRIDOR NORTH OF E.O.C.

GRAPHIC VECTOR FILE TO BE PROVIDED AT A LATER DATE.

ADMIN BUILDING TENANT IMPROVEMENT PROJECT
1995 MARKET STREET
RIVERSIDE, CA 92501

19900 MacArthur Blvd. Suite# 1000 Irvine, CA 92612
TEL: 949.250.0880 FAX: 949.250.0882

(WC4) MURAL WALLCOVERING

	25811
Date:	04/16/2026
Scale:	NTS
Reference Sheet:	-

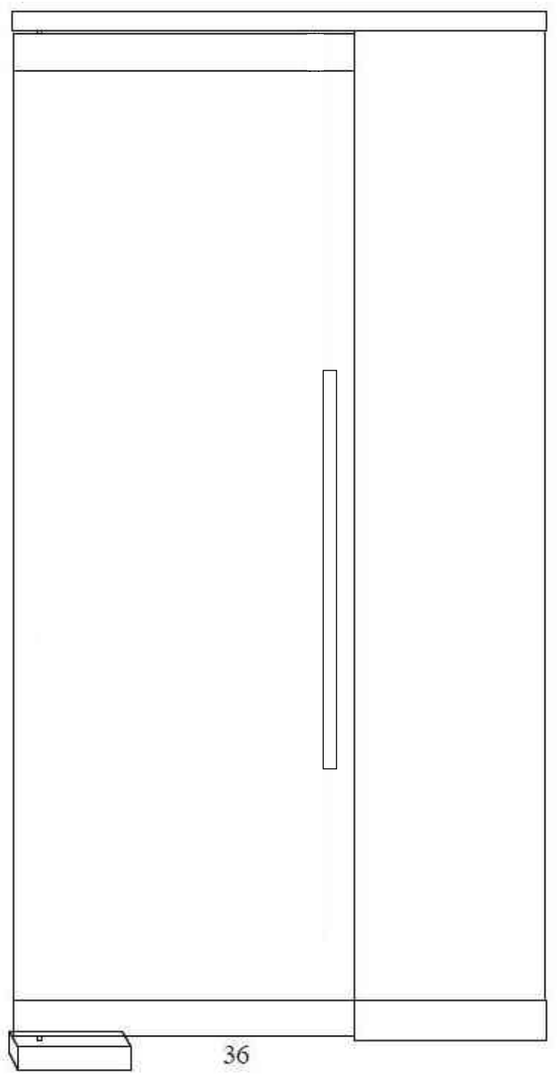
ADDEN. 02
SK-04

06 - ELECTRICALLY LOCKED FRAMELESS GLASS PIVOT DOORS

CONTINUOUSLY LOCKED BY POWER. HARDWARE RELEASED BY KEY CARD ON OUTSIDE OR REMOTE BUTTON RELEASE OR INTERIOR REX. POWER FAILURE ALLOWS FREE EGRESS.

QTY.		ITEM
1 EA.	2	FLOOR CLOSER
1 EA.		TOP AND BOTTOM RAILS
2 EA.		VERTICAL PULL BARS (ELMES DOOR PULLS G52-01-023-L600)
1 EA.		POWER SUPPLY
1 EA.		CARD READER (BY TENANT)
1 EA.		ELECTRIC STRIKE
1 EA.		REQUEST TO EXIT HARDWARE

REFERENCE CONCEPT IMAGE



REFERENCE LINE DRAWING

ADMIN BUILDING TENANT IMPROVEMENT PROJECT
1995 MARKET STREET
RIVERSIDE, CA 92501

19900 MacArthur Blvd. Suite# 1000 Irvine, CA 92612
TEL: 949.250.0880 FAX: 949.250.0882

HARDWARE TYPE 06

25811

Date:	04/16/2026
Scale:	NTS
Reference Sheet:	-

ADDEN. 02
SK-05

SECTION 081116
ALUMINUM DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Pre-finished aluminum door frames for interior use

B. Pre-finished glazed aluminum doors for interior use.

1.02 RELATED REQUIREMENTS

A. Section 079200 - Joint Sealants: Sealing joints between door frames and adjacent construction.

B. Section 081416 - Flush Wood Doors: Wood doors to be installed in aluminum frames specified in this section.

C. Section 087100 - Door Hardware: Hardware for aluminum doors.

1.03 REFERENCE STANDARDS

A. AAMA 603.8 - Performance Requirements and Test Procedures for Pigmented Organic on Extruded Aluminum.

B. AAMA 607.1 - Guide Specification and Inspection Methods for Clear Anodized Finishes for Architectural Aluminum.

C. AAMA 609 & 610 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum; 2025.

D. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

1.04 SUBMITTALS

A. See Document 007000 - General Conditions of the Standard Form Construction Contract Between County and Contractor.

B. Product Data: Manufacturer's descriptive literature for each type of door; include information on fabrication methods.

C. Shop Drawings: Include elevations of each opening type.

D. Verification Samples: Two actual pieces of products in each finish specified, not less than 6 inches square or 6 inches long for linear components. For finishes subject to color variation, include not less than two samples illustrating extreme range to be anticipated.

1.05 QUALITY ASSURANCE

A. Source Limitations: Obtain aluminum frames and doors through one source from a single qualified manufacturer.

B. Manufacturer Qualifications: A firm experienced in the manufacturing of interior aluminum framing systems and doors with a minimum five (5) years successful in-service performance providing product similar to those indicated, including pre-engineering and pre-fabricating all components of aluminum framing systems and doors

C. Installer Qualifications: An experienced installer with a minimum five (5) years experience who has completed aluminum framing systems and door installations similar in material, design, and extent to those indicated and whose work has resulted in construction with a record of successful in-service performance.

D. Fire Rated Assemblies: In locations where fire-rated openings are scheduled or required by regulatory agencies, provide fire-rated aluminum frames that have been tested and certified for specified exposure by an agency acceptable to governing authorities.

1. Provide labels permanently fastened on each frame that is within size limits established by NFPA and the testing authority.

a. Provide labels for openings as scheduled on the drawings.

E. Pre-Installation Conference: Conduct conference with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing interior aluminum frames and doors and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver aluminum components in manufacturer's standard protective packaging, palleted, crated, or banded together.

B. Inspect delivered components for damage and replace. Repaired components will not be accepted.

C. Store components in clean, dry, indoor area, under cover in manufacturer's packaging until installation.

D. Protect materials and finish from damage during handling and installation.

1.07 PROJECT CONDITIONS

A. Field Measurements: Verify actual dimensions of interior aluminum frame openings by field measurements before fabrication and indicate measurements on Shop Drawings submittals.

B. Do not begin installation of aluminum frames and doors until area of work has been completely enclosed and interior is protected from the elements.

C. Maintain temperature and humidity in areas of installation within reasonable limits, as close as possible to final occupancy standards. If necessary, provide artificial heating, cooling, and ventilation to maintain required environmental conditions.

1.08 WARRANTY

A. Provide manufacturer's written warranty against defects in materials and workmanship upon final completion and acceptance of Work in this section.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: Western Integrated Materials, Inc; www.western-integrated.com

B. Or Approved Equal

2.02 DOORS AND FRAMES

A. EXTRUDED INTERIOR ALUMINUM FRAME
   1. Provide interior aluminum framing components complying with dimensions, profiles, and relationships to adjoining work of components as indicated on Drawings. Provide frames that are fitted for partition types and throat openings meeting the throat opening and required clearances per frame manufacturer's recommendations. Reinforce for specified hinges, strikes, closers, and other hardware as required.
   2. Western Integrated Materials Series 400 Frames with the following characteristics:
      a. Rectilinear design.
      b. 1-1/2” face profiles.
      c. Trim: 1” with 3/8” return (reveal trim)
      d. Throat (drywall partition) sizes: From 3” to 9-1/2”
   3. Fire Rated Frames: Fabricate frames in accordance with NFPA80, listed and labeled by a qualified testing agency.

B. INTERIOR ALUMINUM DOORS
   1. General: Provide 1-3/4 inch doors of type and design indicated, not less than 1.10 inch thick material.
   2. Aluminum Stile & Rail Type Swinging Doors: Door Stiles and rails to have tubular design with the following characteristics:
      a.

b. 3-1/2" Rail
c. Snap-in stops with factory applied glazing gaskets for 3/8" thick clear glass.

3.

2.03 MATERIALS

A. Aluminum Sheet: ASTM B209/B209M, alloy 5005, temper H14, stretcher leveled.

B. Extruded Aluminum: ASTM B221 (ASTM B221M), alloy 6063, temper T5, or alloy 6463, temper T5.

2.04 FINISHES

A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for apply and designated finishes. Exposed surfaces to be free of scratches and other serious blemishes.

B. Factory finish extruded frame components so that any part exposed to view upon completion of installation will be uniform in finish and color.

C. Thermal-Setting Acrylic Finish:
1. Comply with AAMA 603.5; baked to assure hardness
2. Color: As indicated in schedules on the drawings.

D. Clear anodic coating:
1. Commercial, AAM12C22A21 clear anodized coating, 0.1 mill minimum thickness.

E. Touch-Up Materials: As recommended by coating manufacturer for field application.

2.05 ACCESSORIES

A. Fasteners: Aluminum, non-magnetic stainless steel, or other material warranted by manufacturer as non-corrosive and compatible with aluminum components.

B. Brackets and Reinforcements: Manufacturer's high-strength aluminum units where feasible, otherwise, non-magnetic stainless steel or steel hot-dip galvanized in compliance with ASTM A123/A123M.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Verify wall thickness does not exceed standard tolerance of +- 1/16”.

C. Verify the accuracy of dimensions given to frame and door manu- facturer for pre-cut openings.

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

3.02 PREPARATION

A. Perform cutting, fitting, forming, drilling, and grinding of frames as required for project conditions.

B. Replace components with damage to exposed finishes.

C. Separate dissimilar metals to prevent electrolytic action between metals.

3.03 INSTALLATION

A. Install doors and frames in accordance with manufacturer's instructions and approved shop drawings.
1. At fire-protection-rated openings, install frames according to NFPA 80,

B. Set frames plumb, square, level, and aligned to receive doors. Anchor frames to adjacent construction in strict accordance with manufacturer's recommendations and within specified tolerances.

C. Where aluminum surfaces contact metals other than stainless steel, zinc, or small areas of white bronze, protect from direct contact by painting dissimilar metal with heavy coating of bituminous paint.

D. Hang doors and adjust hardware to achieve required clearances and proper door operation.

E. Do not use screws or other fasteners exposed to view when installation is complete.

F. Final adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition.

3.04 CLEANING

A. Upon completion of installation, thoroughly clean door and frame surfaces in accordance with AAMA 609 & 610.

B. Do not use abrasive, caustic, or acid cleaning agents.

3.05 PROTECTION

A. Protect products of this section from damage caused by subsequent construction until Date of Substantial Completion.

B. Replace damaged, marred, or defective components that cannot be repaired to a condition indistinguishable from undamaged components.

END OF SECTION

SECTION 088723
SAFETY AND SECURITY WINDOW FILMS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Glazing film applied to new glazing assemblies.

B. Section 084313 - Aluminum-Framed Storefront

C. Section 088000 - Glazing

1.02 REFERENCE STANDARDS

A. ASTM D882 - Standard Test Method for Tensile Properties of Thin Plastic Sheeting; 2018.

B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2025.

1.03 SUBMITTALS

A. See Document 007000 - General Conditions of the Standard Form Construction Contract Between County and Contractor.

B. Test Reports: Detailed reports of full-scale chamber tests to specified criteria, using assemblies identical to those required for this project.

C. Specimen Warranty.

1.04 QUALITY ASSURANCE

1.05 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.06 WARRANTY

A. Provide 15 year limited product warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. 3M Safety and Security Window Film; Ultra Series S800-tinted: www.solutions.3m.com.

B. Substitutions: See Section 016000 - Product Requirements.

2.02 SAFETY AND SECURITY GLAZING FILM

A. Description: Multilayer constructed, shatter resistant and abrasion resistant film designed to be adhesively applied to the interior glass surface of the window assembly.

B. Impact Resistance for Safety Glazing: The film, when applied to either side of the window glass, shall pass a 400 ft-lb impact when tested according to 16 CFR CPSC Part 1201 (Category 2) and ANSI Z97.1 (Class A, Unlimited) and shall pass the accelerated weathering test requirements for both tensile strength and peel strength.

C. Bomb Blast Mitigation:
   1. GSA Rating of “3A” (Very Low Hazard) with minimum blast load of 11 psi overpressure and 55 psi*msec blast impulse.
   2. GSA Rating of “3B” (Low Hazard) with minimum blast load of 10 psi overpressure and 89 psi*msec blast impulse.

2.03 MATERIALS

A. Glazing Film:
   1. Thickness: 0.0059 inch, minimum.
   2. Color: Optically Clear.
   3. Adhesive Type: Pressure sensitive acrylic.

4. Tensile Strength: 30,000 psi minimum when tested in accordance with ASTM D882.
5. Breaking Strength: 30,000 psi when tested in accordance with ASTM D882.
6. Surface Burning Characteristics: Flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84 (Class A).
7. Light Transmission of Film Applied on 1/4 inch Thick Clear Annealed Glass:
    a. Visible Light Transmittance: 73 percent.
    b. Visible Light Reflecttance: 18 percent
    c. Glare Reduction: 8 percent
    d. Heat Loss Reduction: 0 percent
    e. Solar Energy:
        1) 0.68 solar heat gain coefficient
        2) 0.47 U Value
        3) 99 percent UV Block
        4) 3 percent Solar Heat Reduction

B. Adhesive System: The film shall be supplied with a high mass pressure sensitive weatherable acrylate adhesive applied uniformly over the surface opposite the abrasion resistant coated surface. The adhesive shall be essentially optically flat and shall meet the following criteria:
    1. Viewing the film from a distance of ten feet at angles up to 45 degrees from either side of the glass, the film itself shall not appear distorted.
    2. It shall not be necessary to seal around the edges of the applied film system with a lacquer or other substance in order to prevent moisture or free water from penetrating under the film system.

C. Accessory Materials: As recommended or required by film manufacturer.

D. Glass Cleaner: As recommended by glazing film manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Field -Applied Film: Verify that existing conditions are adequate for proper application and performance of film.

B. Examine glass and frames. Verify that existing conditions are adequate for proper application and performance of film.

C. Verify glass is not cracked, chipped, broken, or damaged.

D. Verify that frames are securely anchored and free of defects.

E. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean glass of dust, dirt, paint, oil, grease, mildew, mold, and other contaminants that would inhibit adhesion.

B. Immediately prior to applying film, thoroughly wash glass with neutral cleaning solution.

C. Protect adjacent surfaces.

D. Do not begin installation until substrates have been properly prepared.

3.03 INSTALLATION

A. Do not apply glazing film when surface temperature is less that 40 degrees F or if precipitation is imminent.

B. Install in accordance with manufacturer's instructions, without air bubbles, wrinkles, streaks, bands, thin spots, pinholes, or gaps, as required to achieve specified performance.

C. Accurately cut film with straight edges to required sizes allowing 1/16 inch to 1/8 inch gap at perimeter of glazed panel unless otherwise required by anchorage method.

D. Seams: Seam film only as required to accommodate material sizes; form seams vertically without overlaps and gaps; do not install with horizontal seams.

E. Clean glass and anchoring accessories following installation. Remove excess sealants and other glazing materials from adjacent finished surfaces.

F. Remove labels and protective covers.

3.04 PROTECTION

A. Protect installed products until completion of project.

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

3.05 SCHEDULE

A. Areas of application: refer to callout locations on finish plans.

END OF SECTION

SECTION DIVISION 274116
AUDIOVISUAL SYSTEMS

PART 1 GENERAL

1.01 SUMMARY

1. This section specifies the basic requirements for communications installations as indicated or required and includes requirements common to more than one specification section of this division (such as related documents, related sections, definitions, governing requirements, contractor requirements, warranty requirements, submittal requirements/procedures, and project closeout requirements/procedures, as well as other requirements). This section may expand upon and/or supplement the requirements specified in.
2. Examine the contract documents in their entirety (including drawings and specification sections in the other divisions) for requirements or work which may affect work under this section, regardless of whether such requirements or work are specifically indicated in this section.
3. Errors or Omissions in Drawings or Documentation
    a. If any errors or omissions appear in Drawings, Specifications, or other documents, the bidding Contractor shall notify the Engineer no later than ten (10) days prior to submitting the bid.
    b. Should conflict occur in or between Drawings and Specifications, the bidding Contractor is deemed to have estimated the more expensive way of doing the work, unless the bidding Contractor has asked for and obtained written decision (addendum) before submission of the bid as to which method or materials will be required.
4. System Performance Requirements
    a. General Audio and Video System Performance
        1) Audiovisual systems shall provide clear, distortion-free program audio, consistent coverage, and full-range reproduction appropriate to the room type.
        2) All equipment shall be current-generation, commercially supported, and compliant with AVIXA, ANSI, AES, IEC, and applicable code requirements.
        3) Systems shall be designed for future scalability, including updated media formats, increased resolution, network bandwidth, and emerging audio/video transport standards.
        4) Where the Owner maintains standardized product lines or equipment families, new equipment shall be consistent with the same lineage to ensure compatibility, uniformity of operation, and ease of maintenance.
        5) Substitutions outside established product lines require Owner approval and must demonstrate measurable improvements in performance or lifecycle value.
        6) Systems shall be compatible with Microsoft Teams and be able to utilize Teams built-in transcription and recording.
        7) All remotes shall be labeled for the room and display they come with and returned to Owner.
        8) Cabling through conference tables shall be coordinated with the furniture vendor and routed through furniture-provided retractable cable cubbies.
        9) PTZ cameras shall have auto-tracking for presenter/speaker.
            (a) In rooms with multiple cameras, cameras shall switch between wide angle view and PTZ tracking.
        10) Ceiling microphones shall be beamforming.

b. Training Room & Emergency Operations Center Audio Performance Requirements:
   1) Frequency Response
      (a) Full-range program playback: 50 Hz – 16 kHz (±3 dB)
      (b) Speech reproduction: 125 Hz – 12 kHz (±3 dB)
   2) Maximum Output Levels (at audience area)
      (a) Program playback: 100 dB continuous, 105 dB peak
      (b) Speech reinforcement: 90 dB continuous
      (c) Achieve output with no audible distortion, rattles, or buzzes.
   3) Total Harmonic Distortion
      (a) < 1% THD at specified output levels.
   4) Coverage Uniformity
      (a) Comply with AVIXA 1M – Audio Coverage Uniformity (ACU):
         (1) ±3 dB uniformity over 75% of the audience area.
         (2) No more than ±6 dB variation across entire room.
   5) Low-Frequency Reproduction
      (a) Provide subwoofers capable of extending response to 40–50 Hz.
      (b) DSP shall provide proper alignment, phase, crossover, and limiting.
   6) System Headroom
      (a) Minimum 10 dB of headroom above design output levels.
      (b) System shall not exhibit compression at maximum specified levels.

c. Conference Rooms – System Summary
   1) Provide complete audiovisual systems for all conference rooms as indicated in the Contract Documents. Systems shall support day-to-day collaborative use, remote conferencing, presentations, and hybrid meetings. Requirements include, but are not limited to:
   2) Integrated Video Conferencing
      (a) Systems shall support high-quality hybrid meetings using Microsoft Teams or Owner-approved UC platforms. Videobar or discrete camera/microphone systems shall deliver clear far-end and near-end audio with proper echo cancellation, beamforming (where applicable), and consistent voice pickup throughout the seating area.
   3) Display and Presentation Systems
      (a) Conference room displays shall meet required brightness, resolution, and viewing-angle performance for both soft conferencing and in-room presentation use. Provide wired and wireless presentation inputs including HDMI, USB-C (as required), and Owner-approved wireless sharing protocols.
      (b) In rooms with (2) displays, displays shall be capable of displaying remote attendees & teams chat, while also seeing presented content.
   4) Audio Systems
      (a) Provide ceiling- or table-mounted microphones, loudspeakers, and DSP processing necessary for clear voice reinforcement, conferencing audio, and program playback. Systems shall comply with AVIXA ACU

requirements for coverage uniformity and shall maintain appropriate gain structure and headroom.

5) User Interface and Control

(a) Provide standardized room control via touch panels or button stations for system power, source selection, conferencing platform startup, camera control (where applicable), volume control, and room presets. All conference rooms shall share consistent GUI layouts and operational workflows.

6) Network & Integration

(a) AV-over-IP, control, and USB transport shall be designed to ensure secure, reliable, and scalable operation. Systems shall not interfere with adjacent rooms, and must prevent cross-room device association or wireless roaming.

7) Room Scheduling

(a) Provide room scheduling panels integrated with Owner's calendaring system for room availability, reservation, and status indication.

(b) Room schedulers LEDs shall be red if in use, and green when not in use.

d. Emergency Operations Center (EOC) – System Summary

1) Provide a mission-critical audiovisual system for the Emergency Operations Center (EOC) capable of supporting real-time incident management, situational awareness, and multi-agency coordination. The system shall meet elevated reliability, redundancy, and performance requirements as follows:

2) Mission-Critical Reliability

(a) All EOC systems shall operate continuously during emergency activation without single points of failure. Provide redundant power feeds, UPS support, network paths, and failover capability for essential AV processing and display systems. System architecture shall allow continued operation during partial equipment failure.

3) Large-Format Display & Visualization Systems

(a) Provide video walls, large displays for real-time situational display, GIS visualizations, dashboards, and live media sources. Video wall processors shall support multiple simultaneous sources, presets, scaling, and drag-and-drop layout management. Displays shall maintain brightness and contrast per AVIXA PISCR considering high-ambient-light conditions.

4) Audio & Communications Systems

(a) Provide distributed audio systems capable of clear speech reproduction for briefings, alerts, and teleconferencing. DSP shall support zoned paging, operator monitoring, conferencing integration, and configurable routing. Audio systems shall maintain operational clarity even during concurrent program, paging, and conferencing activity.

5) Unified Conferencing, Broadcast, and Agency Integration

(a) Integrate soft-codec conferencing, SIP or VoIP telephony (where required), radio interoperability interfaces (if shown), and live broadcast inputs/outputs. Systems shall allow simultaneous conferencing sessions, press-briefing feeds, and remote-agency communication.

6) Control System Requirements

(a) Provide advanced control interfaces for operators, supervisors, and technical staff including system mode switching (Activation, Stand-Down, Briefing, Press Mode), video wall layout presets, audio zone control, environmental settings, and device health monitoring. Admin-level pages shall allow access to diagnostics, routing matrices, DSP configuration, and equipment status.

7) Source Inputs & Information Routing

(a) Provide multiple ingress points for laptops, emergency equipment, media feeds, security systems, and GIS-related sources. Routing systems shall provide low-latency transport, secure handling of sensitive feeds, and support for encrypted video/audio content where required.

e. Training Room – System Summary

1) Provide training room capable of up to (2). With partition removed, all systems shall be converged into one with GUI interfaces mirroring each other. With the partition closed, rooms shall be functionally separate with no overlapping AV or control functions.

2) Large-Format Display & Visualization Systems

(a) Provide video walls, large displays for real-time situational display, GIS visualizations, dashboards, and live media sources. Video wall processors shall support multiple simultaneous sources, presets, scaling, and drag-and-drop layout management. Displays shall maintain brightness and contrast per AVIXA PISCR considering high-ambient-light conditions.

3) Audio & Communications Systems

(a) Provide distributed audio systems capable of clear speech reproduction for briefings, alerts, and teleconferencing. DSP shall support zoned paging, operator monitoring, conferencing integration, and configurable routing. Audio systems shall maintain operational clarity even during concurrent program, paging, and conferencing activity.

4) Unified Conferencing, Broadcast, and Agency Integration

(a) Integrate soft-codec conferencing, SIP or VoIP telephony (where required), radio interoperability interfaces (if shown), and live broadcast inputs/outputs. Systems shall allow simultaneous conferencing sessions, press-briefing feeds, and remote-agency communication.

5) Control System Requirements

(a) Provide advanced control interfaces for operators, supervisors, and technical staff including system mode switching (Activation, Stand-Down, Briefing, Press Mode), video wall layout presets, audio zone control, environmental settings, and device health monitoring. Admin-level pages shall allow access to diagnostics, routing matrices, DSP configuration, and equipment status.

6) Room scheduling

(a) Divisions or entire room shall be able to be reserved.

(b) LEDs shall be red if in use, and green when not in use.

7) Source Inputs & Information Routing

(a) Provide multiple ingress points for laptops, emergency equipment, media feeds, security systems, and GIS-related sources. Routing systems shall

provide low-latency transport, secure handling of sensitive feeds, and support for encrypted video/audio content where required.

f. Video Performance Requirements:
   1) Resolution Requirements
      (a) Minimum native display resolution: 1920 × 1080
   2) Systems shall support:
      (a) 1280 × 720
      (b) 1920 × 1080
      (c) 3840 × 2160
   3) Image Quality
      (a) Displays shall exhibit no dead pixels, discoloration, banding, or geometric distortion.
   4) Brightness & Contrast
      (a) Display brightness shall be appropriate to ambient light conditions and room usage.

g. Wireless System Requirements:
   1) Wireless AV links, microphones, control devices, or assistive listening components shall not interfere with adjacent-room systems.
   2) Frequency coordination shall prevent cross-room device association.
   3) Channel assignments shall be locked to prevent auto-roaming.
   4) Integration with Assisted Listening Systems

h. Control System Performance Requirements:
   1) The control system shall provide reliable, synchronized, and deterministic operation of all audiovisual and ancillary systems within the room.
   2) Control processing shall be performed by a dedicated control processor capable of real-time execution without perceptible latency.
   3) All user interfaces (touch panels, wall stations, button panels) shall present a consistent, intuitive, and unified control experience across all spaces.

i. GUI Touch Panel Requirements
   1) Return to home page shall be required on all pages.
   2) Passwords shall be provided for accessing AV equipment setting pages.
   3) Medium and large touch panels shall provide primary room control including, but not limited to:
      (a) System power on/off
      (b) Source selection
      (c) Volume control (on/off, mute)
      (d) Audio level control and muting
      (e) Video routing from any source to any or multiple destination(s) on a single page
      (f) PTZ camera control and presets
      (g) Mode selection (Presentation, Reset/Default, etc.)
      (h) Divisible partition (Conference 232 only)

(1) Provide override buttons of partition sensor.

4) Small touch panels shall provide primary room control including, but not limited to:
   (a) System power on/off
   (b) Source selection
   (c) Volume control (on/off, mute)
   (d) Mode selection (Presentation, Reset/Default, etc.)
5) GUI pages shall follow a consistent layout and visual structure across all rooms.
   (a) In Conference 232, GUI shall be mirrored when partition is open.
6) All buttons shall include visible feedback (color change, status indicator, icon state).
7) GUI shall prevent access to backend system configuration, DSP tuning, or device programming without credentialed access (PIN, login, or admin page).
8) Navigation shall be logically structured so that all primary functions are accessible within two screen transitions from the home screen.
9) The GUI shall incorporate Owner-approved branding elements including color palette and logo (where applicable).
10) Touch panel processing shall support future expansion for additional scenes, sources, or equipment changes without requiring replacement of hardware.
11) Support email or phone number shall be visible for contacting IT or help.

j. DSP Integration
   1) Adjustments shall be provided to minimize feedback between all in-room microphones and speakers.
   2) All adjustments made via GUI or button interface shall be reflected in the DSP and vice versa.
   3) Scene recall shall be safe, ensuring that gain structure, routing, equalization, and dynamics do not cause system overload or instability.
   4) DSP processing shall handle:
      (a) Crossovers
      (b) Alignment
      (c) Limiters
      (d) EQ
      (e) Time delays
      (f) Routing matrices

k. Video System Control
   1) Control system shall manage:
      (a) Display power
      (b) PTZ camera adjustments and preset (focus, zoom, shift)
      (c) Input switching
      (d) Divisible partition
      (e) Default settings

2) Displays shall provide response feedback to the GUI (power status, input status, lamp hours, error/status messages).

l. Environmental and Mechanical Integration

1) Environmental controls shall include feedback to confirm device position/status.

m. System Logic & Safety

1) Control system shall prevent conflicting commands (e.g., simultaneous ON/OFF states, multiple routing paths to the same DSP input).

2) Improper sequencing shall not cause system lockout, crashes, or infinite loops.

3) Volume limits, DSP headroom thresholds, and system protection routines shall be enforced by the control logic.

4) System shall maintain last-known volume and state information unless safety protocols dictate reset on power-cycle.

5) The system shall allow technical/admin control pages behind PIN/credential access for advanced functions, including:

(a) DSP gain structure

(b) Preset management

(c) Diagnostic feedback

(d) Device connectivity status

n. Power Management

1) Control system shall coordinate orderly shutdown and startup of AV and environmental devices to ensure proper system stability.

2) Control system shall be capable of full system power cycling for all AV equipment within the room.

3) Power sequencing shall protect amplifiers, DSPs, and powered loudspeakers from transient damage.

1.02 DEFINITIONS

1. “AHJ”: Authority Having Jurisdiction
2. “Connect”: To install patch cords, equipment cords, crossconnect wire, etc. to complete and electronic or optical signal circuit.
3. “Cord”: a length of cordage having connectors at each end. The term “Cord” is synonymous with the term “Jumper” and “Lead”.
4. “Furnish”: To purchase, procure, acquire, and deliver complete with related accessories.
5. “ISP”: Inside Plant
6. “NEMA”: National Electrical Manufacturers Association
7. “OFCI”: Owner-furnished contractor-installed; coordinate the integration of components furnished by the Owner; provide mounting hardware, cable, connectors, etc. to ensure proper integration of OFCI equipment.
8. “OFE”: Owner Furnished Equipment
9. “OSP”: Outside Plant
10. “Provide”: To furnish, transport, install, erect, connect, test and turn over to the Owner, complete and ready for regular operation
11. “Approved Grounding Point”: an approved grounding point is one that satisfies the applicable electrical code and provides a low impedance path to earth. Examples include the following though may manifest in different means: a telecommunications grounding busbar (such as

for bonding an equipment rack within a telecom room), the ACEG of the electrical panel serving the equipment requiring bonding to ground (such as for bonding a credenza rack within a conference room), or the ground conductor of a branch circuit (such as for bonding a single piece of equipment).

12. “Audience Area”: the portion of a presentation space intended to be occupied by an audience. An audience area includes the primary seating and standing spaces and may included the adjacent circulation spaces. An audience area generally excludes spaces reserved for presenters.
13. “Audience Area”: the portion of a presentation space intended to be occupied by an audience. An audience area includes the primary seating and standing spaces and may include the adjacent circulation spaces. An audience area generally excludes spaces reserved for presenters.
14. “Custom” indicates systems or components the Contractor fabricates based on these specifications and drawings
15. “EDID”: Extended display identification data
16. “HDCP”: High-bandwidth digital content protection
17. “HDMI”: High-definition multimedia interface
18. “OFE”: Owner Furnished Equipment
19. “RU”: rack unit, as defined in EIA/ECA-310
20. “Shall” denotes a mandatory requirement
21. “Should” denotes an advisory statement
22. “SPL”: sound pressure level
23. “THD”: total harmonic distortion
24. “System”: The audiovisual components, cabling, and programming incorporated in the descriptions and equipment lists herein

1.03 REFERENCES

1. Most recent editions, revisions, addenda, and bulletins of the following documents:
    a. ANSI/TIA–568 series
    b. ANSI/TIA–569 Telecommunications Pathways and Spaces
    c. ANSI/TIA–606 Administration Standard for Telecommunications Infrastructure
    d. ANSI/TIA–607 Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises
    e. ANSI/TIA–862 Structured Cabling Infrastructure Standard for Intelligent Building Systems
    f. Telecommunications Distribution Methods Manual
    g. Information Transport Systems Installation Methods Manual (ITSIMM)
2. Americans with Disabilities Act
3. California Electric Codes (CEC)
4. Local Codes and Standards – all applicable
5. NFPA 70 – National Electrical Code
6. NFPA 101 – Life Safety Code
7. UL 969, “Marking and Labeling Systems”
8. UL 1419, “Professional Video and Audio Equipment”

9. UL 60065, “Audio, Video and Similar Electronic Apparatus – Safety Requirements”
10. InfoComm 1M, “Audio Coverage Uniformity in Enclosed Listener Areas”
11. InfoComm 2M “Standard Guide for AV Systems Design and Coordination Processes”
12. InfoComm F501 01, “Cable Labeling for Audiovisual Systems”
13. “Sound Systems Engineering”, 3rd Ed., Davis and Davis
14. EIA/ECA-310, “Cabinets, Racks, Panels, and Associated Equipment”
15. Local Authority Having Jurisdiction (AHJ)
16. Anywhere cabling standards conflict with one another or with electrical or safety codes, Contractor shall defer to the NEC and any applicable local codes or ordinances, or default to the most stringent requirements listed by either
17. Any violations of applicable standards or codes committed by the Contractor shall be remedied at the Contractor’s expense.

1.04 QUALIFICATIONS

1. The contractor shall hold a valid State of California C7 and C10 Contractor’s license.
2. Contractor shall have a proven track record in the field of specified cabling and system installations, with at least (3) previous installations of comparable size and complexity undertaken within the last (5) years.
3. Contractor shall have advanced certifications (i.e. CTS-I, CTS-D).
4. Contractor shall have manufacturer-specified advanced certifications for critical system components (i.e. DMC-D, XTP, etc.).
    1) QSYS
        (a) Q-SYS Level One
        (b) Q-SYS Level Two
        (c) S-SYS Control & UCI
    2) Crestron
    3) Extron
5. Contractor shall be a manufacturer’s authorized distributor and warrantee station for the equipment offered, and shall maintain a fully equipped service organization capable of furnishing adequate repair service to the equipment.

1.05 SUBMITTALS

1. Make submittals in accordance with:
    a. Document 0070000 – General Conditions of the Standard Form Construction Contract between County and Contractor.
2. Action Submittals:
    a. Shop Drawings
        1) Owner will provide electronic files in CAD or Revit format, containing the contract document drawing files, for use in the preparing of the shop drawings.
        2) Drawings will be to scale.
        3) Submit the following sheets and details:
            (a) Titlesheet and Cover Page: indicate project name and location; include sheet index
            (b) Overall Floor Plans: floor plans showing the locations of devices not within enlarged plans; devices and cable routing paths with cable types,

quantity called out, and device IDs; rack locations; wall elevations of displays s; new pathways/conduits/boxes/etc.

(c) Enlarged Plans: Floor and reflected ceiling plans showing the locations of devices and cable routing paths with cable types, quantity called out, and device IDs; rack locations; wall elevations of displays; loudspeaker power; new pathways/conduits/boxes/etc.

(d) Rough-in and wiring details. Include button panel layouts.

(e) Functional line diagrams showing full scope of wiring and cabling between equipment, indicating Contractor and Owner scopes of work.

b. Product submittal

1) Contractor shall furnish products for a complete, turnkey system. Submit major components and ancillary accessories required for complete system. Minor accessories like screws and nuts are not required for submission, unless specified in Part 2.

2) Product submittal shall be a single complete submittal. Incomplete submittals will be rejected without review.

3) Partial submittals will be allowed for short lead items only with documentation on lead time included at the front of the submittal.

4) Catalog cut sheets and data sheets containing physical and dimensional information, performance data, electrical characteristics, materials used in fabrication, material finish, and licenses. Clearly indicate on each sheet what is being submitted on.

5) For touchscreen panels, submit separate PDFs per system with a page for each menu, submenu, and pop-up.

6) Submit Owner logos where required by Owner standards.

7) Qualification Data: Submit at least three references for projects similar in scope to the project described herein. Include, for each customer reference, the following information: Company name, address, phone number, name and email address of contact and type of job completed.

(a) Provide copies of the Contractor’s certification.

(b) Provide written guarantees from manufacturers of major equipment, that a service representative has been assigned.

(c) Provide copies of technician training certificates.

8) Submit test procedures for each room and standalone device. Group test procedures per room/standalone device.

1.06 CLOSEOUT DOCUMENTS

1. Final close out documents including, but not limited to, test results on in digital PDF and physical CD–ROM or USB drive, in native tester format, project manual that includes manufacturer and contractor warranties, product cut sheets, material submittals, etc. Also, include the following:

a. Provide "As–Built" Drawings in AutoCAD or Revit.

1) "As–Built" drawings indicating location of all equipment including but not limited to outlets, patch panels, on each segment and cable routing outlet and identifiers. Indicate labeling for each piece of equipment.

2) As–Built drawings will contain all installed cabling and materials. Outlets will be labeled with each cable associated with the work area outlet.

3) Red-lined shop drawings submitted as As-built drawings will be rejected without review.

4) (1) printed, hard copy of final approved as-built drawings in native sheet size will be provided to Owner. Unapproved sheet sizes will be rejected.

b. Provide printed test reports in 3-ring binder and submit to Owner.

c. Owner's written acceptance of installed systems.

d. Print (2) printed copies of full-sized as-built drawings, and submit to Owner.

e. Provide pricing and contact information for emergency service work not covered by warranty.

1.07 QUALITY ASSURANCE

1. Standards for Materials and Equipment

   a. The Contractor shall provide all materials, equipment, and installation in compliance with the latest applicable standards from AVIXA, ANSI, FCC, ASTM, EIA/TIA, IEEE, CEC, NFPA, NEMA, OSHA, REA, and UL.

2. Manufacturer's Warranty

   a. Warranty shall meet the following criteria:

      1) This warranty will cover all cables, terminations, and components provided by the Contractor.

      2) Minimum 5-year written warranty covering workmanship and materials from the date of project completion. All repairs shall be made at no cost to the Owner during the warranty period.

      3) Corrections shall start within 48-hours of notification from Owner.

      4) Yearly systems training

      5) Preventative maintenance

   b. If the warranty is needed by the Owner within the warranted period and the original installer is no longer in business, System manufacturer shall find a substitute certified contractor and assume costs to fulfill the obligations of the warranty.

   c. Upon acceptance of the warranty paperwork and test results from the Contractor, System manufacturer will mail a notification letter to the installer and a notification letter with warranty certificate to Owner.

   d. The warranty period shall commence following the final acceptance of the project by Owner and written confirmation of warranty from System manufacturer.

   e. Provide 5-year software service agreement. Include associated licenses and renewal fees for the agreement's duration. Agreement and licenses shall commence following the project's substantial completion, and not the Contract's purchase date.

3. Acceptance Testing

   a. Provide tests specified below, when applicable or required by Owner, and as indicated under individual items of material, equipment, and work specified in this Specification.

      1) Furnish all test equipment and instruments required for the tests.

      2) Responsible, qualified employees of the contractor in the presence of the Owner or an authorized representative shall perform the cable testing.

      3) All individuals involved in the testing phase of the project shall not have been involved in the installation phase nor shall have immediate knowledge of the installation task.

b. End-to-end performance and calibration of all parts and channels shall be tested prior to testing in presence of Engineer.

c. Performance testing of typical rooms and 1-of-each-kind of standalone systems shall be performed in presence of Engineer. System shall be accepted by Engineer prior to testing in presence of Owner.

d. Performance testing of all rooms and standalone systems shall be performed in presence of Owner. Owner's written acceptance of system is a requirement of Closeout, and shall not conclude the Closeout Documentation stage.

1.08 DELIVERY, STORAGE, AND HANDLING

1. To prevent damage, theft, soiling, and misalignment, protect equipment during transit, storage, and handling

2. The contractor shall coordinate the secure storage of equipment and materials on site, or, if no on-site storage is available, shall provide their own secure storage at the Contractor's expense.

   a. Do not store equipment where conditions fall outside the manufacturer's recommendations for environmental conditions.

   b. Do not install damaged equipment. Remove environmental conditions from the site and replace damaged equipment with new equipment.

   c. If off-site storage of materials is necessary, this shall be at the Contractor's expense.

1.09 PROJECT CONDITIONS

1. Project Environmental Requirements

   a. Hazardous Materials Prohibition

      1) The Contractor shall ensure that all materials used in the project are asbestos-free, unless specifically authorized in writing by the Owner.

   b. Existing Conditions

      1) Verify that all conditions on the project site are acceptable for the Work specified in this Section. Prior to bid opening, notify the Consulting Engineer, in writing, of any discrepancies, conflicts, or omissions. Otherwise, correct these issues at no additional cost to the Owner.

      2) Continue to monitor the project site. If conditions develop that require a variance from the Specifications or Drawings, then immediately notify the Owner in writing. Otherwise, make recommendations, submit drawings showing how the Work may be installed, and, upon approval, proceed with the necessary changes without additional cost to the Owner.

   c. Environmental Limitations: Do not deliver or install equipment frames and cable trays until spaces are enclosed and weather–tight, wet work in spaces is complete and dry, and work above ceilings is complete.

   d. Confirmation of Pathway and Cable Manager sizing:

      1) Wherever cabling pathways or managers are installed, it is the Contractor's responsibility to confirm pathway or manager sizing to represent no more than 25% fill upon installation according to manufacturer's fill tables.

      2) Pathways deemed overfilled upon installation will not be accepted and shall be remedied at Contractor expense.

1.10 USE OF THE SITE

1. Where the Owner deems it necessary to place restrictions, use the site as directed by the Owner.

2. When proceeding with the work, do not interfere with the ordinary use of streets, aisles, passages, exits, or operations of the Owner. During the day, set up cones and barriers in hallways and walkways. Do not string cable down the hallways during normal hours.
3. Request a hazardous materials worksheet that identifies potentially-hazardous locations. Do not proceed with any work in locations where hazardous materials are known to be. Obtain instructions from the Contractor's Project Manager on and when to work in these areas.
4. Multiple times each day, each contractor shall remove all trash and debris from the site. Before leaving the room each day:
    a. The Contractor shall replace all ceiling tiles that they have removed.
    b. The Contractor shall place all furniture and equipment that they have moved back into its original location.
    c. The Contractor shall return any equipment that they have disconnected to working order.
    d. The Contractor's Job Foreman shall inspect all work locations to ensure that the rooms are clean and that all of the tasks described above have been done.
    e. It is recommended that the Contractor inspect the site and take pictures to document the condition of the ceilings and walls.

1.11 RESPONSIBILITIES AND COORDINATION

1. The Contractor shall provide all materials, qualified labor and services required to ensure a complete and operational system, installed in accordance with the intent of the Contract Documents.
2. The Contractor shall furnish and install all incidental items not actually shown or specified, but which are required by best practices to provide complete functional systems.
3. The Contractor shall coordinate the details of facility equipment and construction for all specification divisions, which affect the work covered under this Division.
4. The Contractor shall coordinate with all other trades. The Contractor will submit a schedule for the installation within 15 days of contract award.
    a. The schedule shall include delivery, installation, and testing for conformance to specific job completion dates.
    b. At minimum, the schedule shall provide dates for the start of demolition, the completion of demolition, the installation start date, the completion of copper cabling, the completion of backbone cabling, the completion of testing and labeling, cutover, the completion of the final punch list, final inspection, and acceptance.
5. The Contractor shall develop a bill of materials, perform material management and efficient use of the materials whether they are issued by Owner or purchased by the Contractor.
6. The Contractor shall ensure materials, in excess of, those required to complete the project are kept in their original condition and packaging for restocking.
7. The Contractor shall maintain existing cables and terminations not determined to be within the demolition scope of work. Cables damaged, removed, or unterminated shall be reinstalled and recertified with the manufacturer's certified installer, and test results provided to the Owner.

1.12 DESIGN CRITERIA

1. Compliance by the contractor with the provisions of this Specification does not relieve him or she from the responsibilities of providing materials and equipment of proper design, mechanically and electrically suited to meet operating requirements at the specified service conditions.

1.13 LABELING

1. Refer to Owner’s standards for labeling requirements.
2. Comply with TIA/EIA–606–A, TIA/EIA–606–A, Addendum 1 and UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.
3. Labeling: Provide labeling for audiovisual system components. The components include, but are not limited to, the following:
    a. Equipment racks and equipment enclosures
    b. Rack-mounted equipment and devices: Provide a label on the back of each piece of equipment. If a serial number (of a given piece of equipment) is not visible in a final installed condition, provide a label on the equipment on a visible location duplicating the serial number.
    c. Wall-mounted equipment and devices: Provide an equipment label on the back of each piece of equipment. If a serial number (of a given piece of equipment) is not visible in a final installed condition, provide a label on the equipment on a visible location duplicating the serial number.
    d. Wires and cables: Provide a cable label at each end of each piece of wire, cable, and cord.
    e. Terminal blocks, patch panels, and other termination apparatus: Provide a label on each termination block, piece of termination apparatus and termination position on patch panels.
    f. Handheld and wireless devices
    g. User interfaces, devices, faceplates

PART 2 PRODUCTS

2.01 GENERAL

1. This Section includes General Requirements for each section in Division 27 and shall be used in conjunction with specifications, other related Divisions and related Contract Documents to establish the total requirements for the project.
2. All materials and products shall be:
    a. Appropriate for the intended use
    b. Permitted by the Authority Having Jurisdiction (AHJ)
3. All products shall be new, of the latest version at time of bid, and brought to the job site in original manufacturer's packaging. Used equipment and damaged material will be rejected.
4. Provide attachments and accessories necessary for complete installation.
5. Any modifications to equipment to suit the intent of the specifications shall be performed in accordance with these requirements.
6. Take care during installation to prevent scratches, dents, chips, etc. Equipment with significant or disfiguring cosmetic flaws will be rejected.
7. All components will be approved by the Engineer and shall have the most aesthetic value possible while maintaining specified functionality. Hardware shall:
    a. Be in compliance with the Construction Documents.
    b. Have fit and finish compatible with the existing surrounding structure.
    c. Be unobtrusive.
    d. Provide the required functionality.
8. Fabricate custom-made equipment with careful consideration given to aesthetic, technical, and functional aspects of the equipment and its installation.

9. Provide products that are suitable for the intended use, including, but not limited to environmental, regulatory, and electrical factors.

2.02 SUBSTITUTION POLICY

1. Substitution of specified products or systems is not allowed.
2. Contractor shall assume all costs for removal and replacement of any product installed in substitution of those specified. Such costs shall include but not be limited to labor, materials as well as any penalties, fees or costs incurred for late completion.

2.03 MANUFACTURERS

1. Displays:
    a. General Requirements
        1) Commercial-grade flat panel displays suitable for continuous operation.
        2) Native resolution: minimum 3840 × 2160 (UHD).
        3) LED-backlit LCD technology with anti-glare treatment.
        4) Landscape orientation, wall-mounted unless noted otherwise.
        5) Integrated control via RS-232, IP, or manufacturer-supported API.
        6) Rated for minimum 16/7 operation (conference rooms, training rooms) and 24/7 operation where required (EOC).
        7) Compliance with ENERGY STAR or equivalent efficiency program.
    b. Conference Rooms
        1) Display size: 65"–86" diagonal, based on room size and viewing distance.
        2) Brightness: minimum 500 nits.
        3) Input support: HDMI 2.0 or better; DisplayPort acceptable.
        4) Suitable for collaboration, video conferencing, and wireless presentation content.
    c. Emergency Operations Center (EOC)
        1) Display size: 75"–98" diagonal, or video wall-compatible displays where indicated.
        2) Brightness: minimum 700 nits.
        3) 24/7 rated panels with thermal management designed for continuous operation.
        4) Narrow bezel options preferred for adjacent or arrayed installations.
        5) Designed for mission-critical visualization, situational awareness, and data dashboards.
    d. Training Rooms
        1) Display size: 75" diagonal.
        2) Brightness: minimum 500 nits.
        3) Optimized for presentation content, instructional video, and hybrid learning.
        4) Support for extended viewing sessions without image retention.
    e. Basis-of-Design Manufacturers
        1) Samsung Business Models
        2) NEC Business Models
        3) Panasonic Business Models
2. Encoders & Decoders

a. Support for network-based AV distribution over standard Ethernet infrastructure.
b. Video formats: HDMI input/output, up to 4K resolution.
c. Low-latency transport suitable for live presentation and conferencing.
d. Powered via PoE/PoE+ or local power supply.
e. Full integration with control and audio processing platform.
f. Multicast and unicast support.
g. Manufacturer:
    1) Q-sys NV-21-HU
    2) Crestron
    3) Extron
    4) Or Approved Equal

3. Loudspeakers
    a. 6.5-inch coaxial ceiling loudspeaker with integrated back can.
    b. Transformer-tapped for 70V/100V distributed audio systems.
    c. Wide dispersion pattern for uniform speech coverage.
    d. Plenum-rated enclosure.
    e. UL listed.
    f. Manufacturer
        1) Q-sys AD-C6T-ZB
        2) Crestron
        3) Extron
        4) Or Approved Equal
4. Soundbar
    a. Integrated loudspeakers, microphones, and processing suitable for conferencing.
    b. Designed for wall mounting above or below displays.
    c. Network-connected and software-configurable.
    d. Optimized for small to medium conference rooms.
    e. Manufacturer
        1) Q-sys NL-SB42
        2) Crestron
        3) Extron
        4) Or Approved Equal
5. Audio Amplifiers
    a. Four-channel amplifier with minimum total output power of 2000 watts.
    b. Support for both low-impedance and distributed (70V/100V) systems.
    c. Network monitoring and control.
    d. Built-in protection for thermal, short circuit, and overload conditions.
    e. Manufacturer
        1) Q-sys CX-Q 2K4
        2) Crestron

3) Extron
4) Or Approved Equal

6. Audio Processors
   a. Fully programmable DSP supporting routing, mixing, AEC, dynamics, and EQ.
   b. Native integration with control, video distribution, and monitoring systems.
   c. Scalable architecture supporting future expansion.
      1) Manufacturer
      2) Q-sys
         (a) Core 24f
         (b) Core 8 Flex
      3) Crestron
      4) Extron
      5) Or Approved Equal
7. Touch Screen Panels
   a. Capacitive touchscreen with network connectivity.
   b. Conference Rooms:
      1) Minimum 5-inch diagonal display.
   c. Training Rooms:
      1) Minimum 10-inch diagonal display.
   d. Emergency Operations Center (EOC):
      1) Minimum 15-inch diagonal display.
   e. Support for custom graphical user interfaces.
   f. Powered via PoE
   g. Manufacturer
      1) Q-sys TSC-50-G3
      2) Q-sys TSC-70-G3
      3) Q-sys TSC-110-G3
      4) Crestron
      5) Extron
      6) Or Approved Equal
8. Tabletop Microphones
   a. Low-profile tabletop form factor.
   b. Optimized for speech intelligibility and conferencing.
   c. Network-connected or analog as required by system design.
   d. Manufacturer
      1) Q-sys NM-T1
      2) Crestron
      3) Extron
      4) Or Approved Equal
9. Ceiling Microphones

a. Ceiling-mounted beamforming microphone array.
b. Automatic coverage with steerable pickup lobes.
c. Network audio connectivity.
d. Suitable for medium to large conference and training rooms.
e. Manufacturer
    1) Shure MXA920
    2) Sennheiser
    3) Or Approved Equal

10. PTZ Cameras:
    a. Minimum 4K imaging sensor.
    b. Optical zoom suitable for medium to large rooms.
    c. Network-based video transport.
    d. Preset control via control system interface.
    e. Manufacturer
        1) Q-sys NC-90-G2
        2) Vaddio
        3) Huddly
        4) Or Approved Equal
11. Wireless Presentation
    a. Native support for Windows, macOS, iOS, Android, and ChromeOS.
    b. Secure screen sharing without required client software.
    c. Support for multiple simultaneous presenters.
    d. Manufacturer
        1) ScreenBeam 1100 Plus
        2) Or Approved Equal
12. Room schedulers:
    a. Network-connected room scheduling displays.
    b. Integration with enterprise calendaring platforms.
    c. LED or on-screen room availability indicators.
    d. Provide mounting for mullion or glass, depending on application.
    e. Manufacturer
        1) Humly Sense
        2) Crestron
        3) Biamp
13. Equipment racks:
    a. Standard 19-inch EIA rack format.
    b. Adequate depth and load rating for AV electronics.
    c. Integrated grounding provisions.
    d. Accessories for cable management and ventilation.
    e. Manufacturer

1) Middle Atlantic
2) CPI
3) Or Approved Equal

14. AV Switch
    a. Designed specifically for AV-over-IP applications.
    b. Support for VLANs, QoS, multicast, and IGMP.
    c. Preconfigured AV profiles for common AV protocols.
    d. Manufacturer
        1) Netgear M4250 Series
        2) Or Approved Equal
15. Digital Signage Systems
    a. General Requirements
        1) Digital signage systems shall be commercial-grade and rated for continuous operation.
        2) Systems shall support scheduled playback of video, graphics, text, and emergency messaging content.
        3) Provide all hardware, software licenses, firmware, and accessories required for a complete and operational system.
        4) Systems shall be capable of centralized content management.
        5) Digital signage shall be logically and physically separated from life-safety systems unless explicitly noted otherwise.
        6) Products shall be from a single manufacturer per system type unless approved otherwise.
    b. On-Premises Digital Signage Systems
        1) Dedicated solid-state digital signage media player.
        2) Supports 4K video playback, HTML5, still images, and streaming media.
        3) Ethernet network interface; optional Wi-Fi where required.
        4) Capable of local content storage and playback without internet connectivity.
        5) Supports GPIO and serial interfaces for external triggers where required.
        6) Designed for 24/7 commercial operation.
        7) Manufacturer:
            (a) Samsung VXT CMS
            (b) BrightSign XD6 Series
            (c) Videotel VP92+
            (d) Or Approved Equal.
    c. Cloud-Based Digital Signage Systems
        1) Cloud-hosted digital signage content management system.
        2) Designed for use with Samsung commercial displays with embedded media players.
        3) Web-based portal for content creation, scheduling, monitoring, and reporting.
        4) Supports multi-display and multi-location management.

5) Provides content caching at the display for limited offline operation.

6) Requires active internet connection for management and updates.

7) Manufacturer

(a) Samsung LYNK Cloud C13

(b) Or Approved Equal.

2.04 AV CABLING

1. General Requirements

a. All AV cabling shall be commercial-grade, factory-manufactured, and listed for the intended installation environment.

b. Cabling shall be plenum-rated (CMP) where installed in air-handling spaces; riser-rated (CMR) where permitted by code.

c. All cabling shall comply with applicable NEC, UL, and local code requirements.

d. Cable construction shall be suitable for permanent installation and not rely on field-terminated consumer-grade assemblies.

e. Provide continuous cable runs without splices except at approved termination points.

f. Bend radius, pull tension, and installation practices shall conform to manufacturer recommendations.

2. Category Cabling (AV over IP, Control, and Peripheral Connectivity)

a. Category 6A minimum for all new AV network connections supporting AV-over-IP, control, and PoE devices.

b. Solid copper conductors; stranded cable not permitted for permanent links.

c. Minimum bandwidth: 500 MHz.

d. Tested and certified to ANSI/TIA-568 standards.

e. Shielded (F/UTP or U/FTP) cabling shall be provided where required for EMI mitigation or manufacturer recommendations.

3. Fiber Optic Cabling

a. Singlemode fiber: OS2, low-water-peak glass.

b. Multimode fiber: OM4 laser-optimized.

c. Plenum-rated jackets where required.

d. Factory-polished connectors; field polishing not permitted.

e. Suitable for 10G and higher AV transport where required.

4. HDMI and Video Signal Cabling

a. HDMI cabling shall be Premium High Speed or Ultra High Speed rated, as required by signal resolution and distance.

b. Active optical HDMI cables shall be used where copper distance limitations are exceeded.

c. Cables shall support HDCP compliance as required by source content.

d. Provide strain relief at all equipment terminations.

5. Audio Cabling

a. Balanced audio cabling for all analog audio signals.

b. Minimum 22 AWG stranded copper conductors.

c. Shielded twisted pair construction.

d. Plenum-rated where required.

6. Control Cabling
   a. Control wiring shall be minimum 22 AWG, stranded, shielded where required.
   b. Rated for RS-232, RS-422, RS-485, and GPIO applications as applicable.
   c. Jacket rating appropriate to installation environment.
7. Acceptable Manufacturers
   a. Belden
   b. Liberty AV
   c. West Penn
   d. Or Approved Equal

PART 3 EXECUTION

3.01 WORKMANSHIP

1. Manufactured products, materials, equipment, and components shall be provided, conditioned, applied, installed, connected, and tested in accordance with the manufacturer's specifications and printed instructions.
2. The installation of all system components shall be carried out under the direction of qualified personnel. Appearance shall be considered as important as mechanical and electrical efficiency. Workmanship shall meet or exceed industry standards.

3.02 INTENT OF DRAWINGS

1. The Audiovisual drawings show only general locations of equipment, devices, raceways, cable trays, boxes, etc., unless specifically dimensioned.
2. The Contractor shall be responsible for the proper placement and routing of equipment, cable, raceways, cable runway, and related components, according to the Contract Documents and subject to prior review by the Owner and structured cabling engineer.
3. The Contractor shall refer any conflicts within the Contract Documents to the Construction Manager and/or Owner for resolution.

3.03 GROUNDING

1. Comply with requirements in both 26 0526 "Grounding and Bonding for Electrical Systems" for grounding conductors and connectors.
2. Comply with ANSI/TIA–607 and the local Electrical Code.

3.04 SERVICE CONTINUITY

1. Maintain continuity of communications services to all functioning portions of the process or buildings during hours of normal use.
2. Arrange temporary outages for cutover work with General Contractor. Keep outages to a minimum number and a minimum length of time in order to provide minimum impact.

3.05 LAYOUT AND TOLERANCES

1. Follow as closely as practicable the schematic design shown on the drawings. Make all necessary measurements in the field to verify exact locations and ensure precise location and fit of specified items in accordance with the drawings. Make no substantial
2. Alterations without prior approval of the owner and the engineer.

3.06 INSTALLATION

1. Anchor and brace enclosures and cabinets where seismic bracing is required.
2. Coordinate cooling for fully enclosed equipment (i.e. fans and vents for racks inside credenzas).

3. Fully secure ceiling mounted equipment and raceways.
4. Loudspeakers in series shall not exceed 75% of rated wattage.
5. Provide service loops in backbox or nearest J-hook.
6. Maintain signal and cable separation per Code and ANSI/BICS standards.
7. Provide strain relief for cables and connectors.
8. Configure EDID management for audio and video parameters are sent to source devices.
9. Ensure HDCP is supported and working. HDCP may be disabled in educational institutions only for “fair use” conditions.
10. Change passwords prior to final acceptance, and enable two-factor authentication.
11. Ensure most current software is installed on devices and headend equipment.
12. Coordinate GUI layout with Owner. Ensure button spacing is consistent and even.

3.07 CONSTRUCTION REVIEW

1. The Engineer and Owner will review and observe installation work to ensure compliance by the contractor with requirements of the Contract Documents.
2. Review, observation, assistance, and actions by the Engineer and Owner shall not be construed as undertaking supervisory control of the work or of methods and means employed by the contractor. The Engineer and Owner review and observation activities shall not relieve the contractor from the responsibilities of these Contract Documents.
3. The fact that the Engineer and Owner does not make early discovery of faulty or omitted work shall not bar the Owner from subsequently rejecting this work and withholding payment until the contractor makes the necessary corrections.
4. Regardless of when discovery and rejection are made, and regardless of when the contractor is ordered to correct such work, the contractor shall have no claim against the Engineer or Owner for an increase in the Subcontract price, or for any payment on account of increased cost, damage, or loss.

3.08 PROJECT RECORD DOCUMENTS

1. Provide detailed project record documentation for sections listed in Part 1.
2. Maintain separate sets of redlined record drawings, which show the exact placement, and identification of as–built system components. These are subject to weekly review by the General Contractor, Owner, or their representative.

3.09 ADDITIONAL CONTRACTOR REQUIREMENTS

1. Contractor is responsible for the removal and disposal of all installation and construction debris created in the process of the job.
2. All work areas will be cleaned at the conclusion of the project and no tools or materials shall be left in a manner as to pose a safety hazard.
3. Projects are not considered finished and will not be paid by Owner until all debris, dust, etc. has been cleaned and removed to the Owner’s satisfaction.
4. Contractor shall remove all abandoned cable per Article 800 of the National Electrical Code and per TIA, BICSI, and AVIXA standards, recycling these materials where possible. Removal of orphaned cable is mandatory. Contractors shall consider this when placing bids.

3.10 FINAL ACCEPTANCE

1. The Contractor is required to notify the Engineer/Owner of a proposed appointment for Final Inspection at least 72 hours before the appointment.

2. Owner may visit site during construction to ensure installation is in compliance with their requirements. Punch items discovered by Owner shall be resolved within 10 days of discovery.
3. System acceptance shall be defined as that point in time when the following requirements have been fulfilled:
    a. All submittals and documentation have been submitted, reviewed, and approved.
    b. The complete system has successfully completed all testing requirements.
    c. All punch list items have been corrected and accepted.

3.11 TRAINING

1. Provide a minimum of (2) 8-hour training session with a minimum of (4) Owner's staff at the project site (or other location designated by the Owner) by a qualified instructor (presence of equipment manufacturer if needed for additional assistance). Topics shall include system usage, operation and maintenance, and minor modifications.

3.12 WARRANTY

1. Maintenance
    a. Contractor shall perform preventative maintenance every (6) months after final completion.
    b. Contractor shall perform at a minimum:
        1) Cleaning of vents, filters, lenses
        2) Dust removal
        3) System performance re-validation
        4) Documentation of equipment requiring replacement (i.e. broken pixels/lenses/lamps, failing motors, etc.)
    c. Costs shall be provided for extended services not covered by warranty.

END OF SECTION

SECTION 280000
COMMON WORK RESULTS FOR SECURITY

PART 1 GENERAL

1.01 SUMMARY

1. This section specifies the basic requirements for Communications installations as indicated or required and includes requirements common to more than one specification section of this Division (such as related documents, related sections, definitions, governing requirements, contractor requirements, warranty requirements, submittal requirements/procedures, and project closeout requirements/procedures, as well as other requirements). This section may expand upon and/or supplement the requirements specified in.
2. Examine the contract documents in their entirety (including Drawings and Specification sections in the other divisions) for requirements or work which may affect work under this section, regardless of whether such requirements or work are specifically indicated in this section.
3. Errors or Omissions in Drawings or Documentation
    a. If any errors or omissions appear in Drawings, Specifications, or other documents, the bidding Contractor shall notify the System Designer no later than ten (10) days prior to submitting the bid.
    b. Should conflict occur in or between Drawings and Specifications, the bidding Contractor is deemed to have estimated the more expensive way of doing the work, unless the bidding Contractor has asked for and obtained written decision (addendum) before submission of the bid as to which method or materials will be required.
4. Related Sections:
    a. Document 0070000 – General Conditions of the Standard Form Construction Contract between County and Contractor Section 260526 – Grounding and Bonding for Electrical Systems
    b. Section 281000 – Access Control and Alarm Management System
    c. Section 281600 – Intrusion Detection System
    d. Section 282000 – Video Surveillance System

1.02 DEFINITIONS

1. AES – Advanced Encryption Standard. ANSI – American Northern Standards Institute
2. AWG – American Wire Gauge
3. BICSI – Building Industry Consulting Service International
4. BLE – Bluetooth Low Energy
5. DHCP – Dynamic Host Configuration Protocol
6. DHS – Department of Homeland Security
7. DNS – Domain Name System
8. DPDT – Double Pole Double Throw
9. EIA – Electronics Industry Alliance
10. GUI – Graphical User Interface
11. Hazmat – Hazardous Materials
12. HTTP – Hypertext Transfer Protocol
13. IAM – Identity and Access Management

14. IDM – Identity Management
15. IEC – International Electrotechnical Commission
16. IEEE – Institute of Electrical and Electronic Engineers
17. IP – Internet Protocol
18. IPAC – Internet Protocol Access Control
19. ISO – International Standards Organization
20. KVM – Keyboard, Video (Monitor), Mouse
21. LAN – Local Area Network
22. NECA – National Electrical Contractors Association
23. NFC – Nearfield Communications
24. NFPA – National Fire Protection Agency
25. NIST – National Institute of Standards and Technology
26. NVR – Networked Video Recorder
27. PoE – Power over Ethernet
28. PTZ – Pan-Tilt-Zoom
29. SIA – Security Industry Association
30. SMS – Security Management System
31. SOC – Security Operations Center
32. SSH – Secure Shell
33. SSO – Single Sign-on
34. TIA – Telecommunications Industry Association
35. TLS – Transport Layer Security
36. UAS – Unmanned Aerial System
37. UL – Underwriters Laboratory
38. WAN – Wide Area Network
39. Provide: Furnish, install, terminate, label, test and certify a complete system.
40. Contract Documents (CD): Design drawings, specifications, sketches and schedules provided by the System Designer as they directly relate to this scope of work and this project.
41. NET–POP Rooms/MPOE (Main Point of Entry): The area where the outside plant media/carrier services appear in the facility. The NET–POP contains equipment used by owner or carrier to hand–off/transition cable from outside plant into inside plant type.
42. Network Center/Main Distribution Frame (MDF) Areas: This technology space houses Layer 2/3 network switching gear and other main network distribution equipment and acts as the mid–connection point between the Core/Network and the TR/IDF/access zones for all connections.
43. Telecommunications Room (TR)/Intermediate Distribution Frame (IDF): is the location for the termination of backbone cables and for termination of horizontal cables, and for the interconnection of each. The space also hosts access–layer switches and user network connections within each floor.
44. Active Equipment: electronic equipment used to develop various WAN, LAN, and voice services, e.g., digital multiplexers, RS–232 controllers, Ethernet hubs, switches, routers, PBX, etc.

45. Horizontal: cabling system consisting of media and termination hardware interconnecting the Telecommunication Outlets (TOs) and the TRs.
46. Bonding: permanent joining of metallic parts to form an electrically conductive path which will assure electrical continuity and the capacity to conduct safely any current likely to be imposed on it.
47. Cable Tray: vertical or horizontal open supports, usually made of aluminum or steel, which are fastened to the building structure. Cables are laid in and fastened to the trays.
48. Cabinet: free standing, floor–mounted or wall–mounted modular enclosure designed to house and protect rack–mounted electronic equipment and passive terminations.
49. Channel: The end–to–end transmission path between two points at which application specific equipment is connected; encompasses all the elements of the horizontal cabling link, plus the equipment cords in the telecommunications spaces and work area.
50. Grounding: a conducting connection to earth, or to some conducting body that serves in place of earth.
51. Jack: receptacle used in conjunction with a plug to make electrical contact between communications circuits, e.g., eight–position/eight–contact modular jacks.
52. Media: twisted–pair/fiber optic cable or cables, or other forms of transmission used to provide signal paths.
53. Outside Plant (OSP): generally, any and all portions of the cable system that runs outside of an environmentally enclosed structure and/or building with each end terminated at different buildings. This specifically includes inter–building cables, conduits, manholes, hand–holes, and innerduct.
54. UTP: Unshielded Twisted Pair.
55. Passive Equipment: non–electronic hardware and apparatus, e.g., equipment racks, cable trays, electrical protection, patch panels, wiring blocks, fiber optic shelves, etc.
56. Patch Cords: a length of wire or fiber cable with connectors on one or both ends used to join communications circuits at a cross–connect.
57. Patch Panel: system of terminal blocks or connectors used with patch cords that facilitate administration of cross–connect fields.
58. Pathway: facility for the placement of communications cable. A pathway facility can be composed of several components including conduit, wireway, cable tray, surface raceway, under floor systems, overhead systems, raised floor, ceiling support wires, etc.
59. Protectors: electrical protection devices used to limit foreign voltages on metallic communications circuits.
60. Raceway: an enclosed channel designed expressly for holding wires or cables; may be of metal or insulating material. The term includes conduit, tubing, wire ways, under floor raceways, overhead raceways and surface raceways; does not include cable tray.
61. Racks: An open, freestanding, floor–mounted structure, typically made of aluminum or steel, used to mount equipment; usually referred to as an equipment rack.
62. Wireway: An enclosure with removable lid whose purpose is for routing cable and storing cable slack.
63. Contractor – The successful bidder engaged to provide the work of this specification
64. Access Control and Alarm Management System (ACAMS): System whose primary function is to control access through building via credentials, credential management, and electrified locking hardware. It's secondary function is to provide alarm monitoring and management for various sensors associated with access control breaches throughout the building.

65. Video Surveillance System (VSS): System whose primary function is video recording and storage of select areas in or around the building. The VSS is forensic in nature and is managed by the VMS.
66. Video Management System (VMS): System application that manages viewing and forensic analysis of VSS video feeds.
67. Intrusion Detection System (IDS): System whose primary function is the monitoring and management of alarms associated with breaches through a secured building or perimeter.
68. Perimeter Intrusion Detection System (PIDS): System whose primary function is the detection, tracking, monitoring, and management of alarms associated with breaches from an external perimeter to a secondary or exterior boundary.
69. Visitor Management System: System whose primary function is to provide temporary access credentials for entry through specified access-controlled portals. This system is integrated with the ACAMS.
70. Antipassback: Antipassback controls are intended to prevent an authorized user from bypassing access control for another individual, by passing back an access credential (card or mobile device) after using it to allow an accompanying individual to present the same credential and gain access.
71. Application Programming Interface (API): Documented set of definitions and protocols for developing integrations between networked software applications, including software running on IoT devices.
72. Availability Zones: Physically separate datacenter locations within each data center geographical region that are tolerant to local failures. Failures can range from software and hardware failures to events such as earthquakes, floods, and fires. Availability zones must be designed so that if one zone is affected, cloud services, capacity, and high availability are fully supported by at least two other zones within the geographical region.
73. Biometric: Unique identifying physical or physiological characteristic of an individual that can be used to identify that individual, such as a facial image or fingerprint.
74. BUS: Short for communication bus, a collection of wires forming a communication system that transfers data between components inside a computer, or between computers.
75. CAN BUS: Controller area network (CAN) communication bus standard designed to allow microcontrollers and devices to communicate with each other's applications without a host computer.
76. Cloud-Native Software: Web application developed specifically for deployment as a cloud service, designed per the NIST five essential characteristics of cloud computing.
77. Container: A discrete computing environment for running software code, typically set up with only those parts of an operating system and other code libraries that are necessary for the software code to run correctly. A container may hold a complete application, a set of software functions, or a single function that performs just one task – such as responding to an access control system event. Each container is autonomous, can be launched in milliseconds, and runs in its own isolated environment, ensuring it does not disrupt other running applications or its underlying system. For example, in a physical access control cloud application supporting tens of millions of users and millions of card reader events per day, parallel processing using containers is a critical element of high performance.
78. Credential: Piece of information, usually digital, which serves as a means of identifying a user to an access control system for the purposes of authenticating the user and determining what that user’s permissions are within the system. In a physical access control system, credentials are typically PIN codes, smart card encoded values, biometric data, mobile credentials, etc.

79. Destination Dispatch: Destination dispatch is an optimization technique used for multi-elevator installations, in which groups of passengers heading to the same destinations use the same elevators, thereby reducing waiting and travel times. Using destination dispatch, passengers request travel to a particular floor using a keypad, touch screen, or electronic credential prior in the lobby and are immediately directed to an appropriate elevator car.
80. Digital Certificate: Electronic document, issued by a Certificate Authority, for uniquely identifying a party (such as a software application or hardware device) in a networked communication session.
81. General Data Protection Regulation (GDPR): Regulation in European Union (EU) law on data protection and privacy in the EU and the European Economic Area (EEA). It also addresses the transfer of personal data outside the EU and EEA areas.
82. IOT-Native Device: Networkable cybersecure device specifically engineered to operate independently and communicate via local network and/or continuous, periodic or ad-hoc Internet connection.
83. LEAF Consortium: Association of industry manufacturers whose purpose is to foster interoperability in the access control and identity credentials markets.
84. National Institute of Standards and Technology (NIST): U.S. federal technology agency that works with industries to develop and apply technology, measurements, and standards.
85. Principle of Least Privilege: Information security concept in which a user is given the minimum levels of access – or permissions – needed to perform the user's job functions.
86. Representational State Transfer (REST): Set of architectural guidelines for the design and development of HTTP-based communications between computer systems on the web.
87. Reader: One of the several types of devices, mounted at a facility door or gate, or in an elevator cab or elevator lobby, which serves as an input device for credentials such as smartcards, PIN codes, biometrics, mobile credentials, etc.
88. RESTful API: API that conforms to the constraints of REST architectural guidelines.
89. Serverless: Serverless is a cloud-native development model that allows developers to build and run applications without having to manage individual virtual or physical servers directly, which are managed by the cloud service provider, chiefly through highly cost-effective automation. Serverless apps may be deployed in containers (see definition above) that automatically launch on demand when called.
90. Single Sign-On (SSO): Single Sign-On occurs when a user logs in (signs on) to one application or system, and is then automatically logged in to other applications or systems during the same session, regardless of the application, system, domain or network the user accesses during the session.
91. System Administrator: Individual who has the ability to login to an account and, based on assigned roles, view or change account information and perform manual access control actions.
92. User: Individual to whom a system access credential is provided that the access control system uses to perform authentication of the user and provide authorized access.
93. X.509:Standard for a public key infrastructure (PKI) to manage digital certificates and public-key encryption.

1.03 REFERENCES

1. Most recent editions, revisions, addenda, and bulletins of the following documents:
    a. ANSI/TIA–568 series
    b. ANSI/TIA–569 Telecommunications Pathways and Spaces
    c. ANSI/TIA–606 Administration Standard for Telecommunications Infrastructure

d. ANSI/TIA–607 Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises

e. ANSI/TIA–862 Structured Cabling Infrastructure Standard for Intelligent Building Systems

f. Telecommunications Distribution Methods Manual

g. Information Transport Systems Installation Methods Manual (ITSIMM)

2. Americans with Disabilities Act
3. California Electric Codes (CEC)
4. Local Codes and Standards – all applicable
5. NFPA 70 – National Electrical Code
6. NFPA 72 – National Fire Alarm and Signaling Code
7. NFPA 101 – Life Safety Code
8. NFPA 730 – Guide for Premises Security
9. NFPA 731 – Standard for the Installation of Electronic Premises Security Systems
10. NFPA 780 – Standard for the Installation of Lightning Protection Systems
11. NFPA 1982 – Standard on Personal Alert Safety Systems
12. UL444 – Standard for Safety of Communications Cable
13. UL 96 – Installation Requirements for Lightning Protection Systems
14. UL 294 – Standard for Access Control System Units
15. UL 365 – Police Station Connected Burglar Alarm Units and Systems
16. UL 603 – Standard for Power Supplies for Use with Burglar-Alarm Systems
17. UL 681 – Standard for Installation and Classification of Burglar and Holdup Alarm Systems
18. UL 827 – Standard for Central-Station Alarm Services
19. UL 1034 – Standard for Burglary-Resistant Electric Locking Mechanisms
20. UL 1666 – Standard for Safety of Flame Propagation Height
21. UL 1076 – Standard for Proprietary Burglar Alarm Units and Systems
22. UL 1610 – Standard for Central-Station Burglar-Alarm Units
23. UL 2610 – Commercial Premises Security Alarm Units and Systems
24. Local Authority Having Jurisdiction (AHJ)
25. Anywhere cabling standards conflict with one another or with electrical or safety codes, Contractor shall defer to the NEC and any applicable local codes or ordinances, or default to the most stringent requirements listed by either
26. Any violations of applicable standards or codes committed by the Contractor shall be remedied at the Contractor's expense

1.04 QUALIFICATIONS

1. The Contractor shall hold a valid State of California C7 and C10 Contractor's license.
2. Contractor shall have a proven track record in the field of specified system installations, with at least (3) previous installations of comparable size and complexity undertaken within the last (5) years.
3. Contractor shall be a manufacturer's authorized distributor and warrantee station for the equipment offered, and shall maintain a fully equipped service organization capable of furnishing adequate repair service to the equipment.

1.05 SUBMITTALS

1. Make submittals in accordance with:
    a. Document 0070000 – General Conditions of the Standard Form Construction Contract between County and Contractor
2. Action Submittals:
    a. Shop Drawings
        1) Owner will provide electronic files in CAD or Revit format, containing the contract document drawing files, for use in the preparing of the shop drawings.
        2) Drawings will be to scale.
        3) Submit the following sheets:
            (a) Titlesheet and Cover Page: indicate project name and location; include sheet index
            (b) Site Plan
            (c) Overall Floor Plans: floor plans showing the locations of devices and cable routing paths with cable types, quantity called out, and device IDs; headend locations; cable routes; new pathways/conduits/boxes/etc.
            (d) Alarm zone schedule indicating protected areas.
            (e) Enlarged Plans: Headend rooms with equipment types and quantity called out; coordinated wall elevations; rack elevations; CFCI and OFCI equipment called out.
            (f) Panel schedules or risers: Show all devices connected to headend equipment ports; devices IDs; interconnections between all boards, power supplies, batteries, relays, etc.
            (g) Rough-in and wiring details.
            (h) Calculations: longest cable voltage drop per headend location; battery storage calculations; video storage calculations; power calculations per circuit per headend location for peak and average power; pixel density calculations for expected camera field of view where specified
    b. Product submittal
        1) Contractor shall furnish products for a complete, turnkey system. Submit major components and ancillary accessories required for complete system. Minor accessories like screws and nuts are not required for submission, unless specified in other Specifications sections.
        2) Product submittal shall be a single complete submittal. Incomplete submittals will be rejected without review.
        3) Partial submittals will be allowed for short lead items only with documentation on lead time included at the front of the submittal.
        4) Catalog cut sheets and data sheets containing physical and dimensional information, performance data, electrical characteristics, materials used in fabrication, material finish, and licenses. Clearly indicate on each sheet what is being submitted on.
        5) Qualification Data: Submit at least three references for projects already completed, similar in scope to the project described herein. Include, for each customer reference, the following information: Company name, address, phone number, name and email address of contact and type of job completed.
            (a) Provide copies of the Contractor’s certification.

(b) Provide written guarantees from manufacturers of major equipment, that a service representative has been assigned.

(c) Provide copies of technician training certificates.

6) Submit test procedures for each door and standalone device.

c. Acceptance testing submittal

1) Installer shall provide a test plan including system acceptance inspections and test demonstrations to be jointly performed by Installer and Owner. Owner shall designate personnel to observe and/or perform test steps as agreed with Installer.

(a) Include the following verifications in the test plan:

(1) Security System Operator Permissions: Operator permissions have been established per operator job and task requirements, and that all system operator actions can be performed per assigned duties – for Owner technical and administrative personnel, contracted security officer personnel, and security system services provider technicians – per Owner preferences.

(2) User Building Access Permissions: Credential-holder permissions have been defined per user groups. Access is granted and denied at each reader location according to defined user groups.

(3) Integrations: All integrations are working fully as expected. Checklists shall include rough-in inspections, installation/quality checks, functional reviews, and configuration inspections.

(4) OSDP-shall be enabled where specified.

(5) Changed default passwords and logins.

2) Contractor may use manufacturer’s commissioning journals where available to create testing plan.

1.06 CLOSEOUT DOCUMENTS

1. Final close out documents including, but not limited to, test results on in digital PDF and physical CD–ROM or USB drive, in native tester format, project manual that includes manufacturer and contractor warranties, product cut sheets, material submittals, etc. Also, include the following:

a. Provide "As–Built" Drawings in AutoCAD or Revit.

1) "As–Built" drawings indicating location of all equipment including but not limited to devices, headend equipment locations, wall elevations, cable routes, identification/labels, custom wiring, etc.

2) Red-lined shop drawings submitted as As-built drawings will be rejected without review.

3) (1) printed, hard copy of final approved as-built drawings in native sheet size will be provided to Owner. Unapproved sheet sizes will be rejected.

b. Spreadsheet of the following:

1) ACAMS

(a) Panel/enclosure identification

(b) IP and MAC address(es) for each panel

(c) Location of each panel

(d) Patch panel and switch ports each panel is connected to

2) VSS

(a) Camera identification

(b) Make and model for each camera

(c) IP and MAC address for each camera

(d) Location of each camera

(e) Patch panel and switch ports each camera is connected to

c. Place a laminated full–size, minimum “C” sized, floor plan of these drawings and panel schedule (coordinate with Owner) on the interior of each headend enclosure, showing area covered, data locations, and identification.

d. Owner’s written acceptance of installed systems.

e. Print (2) printed copies acceptance test reports.

f. Print (2) printed copies of full-sized as-built drawings and submit to Owner.

g. Provide pricing and contact information for emergency service work not covered by warranty.

1.07 QUALITY ASSURANCE

1. Standards for Materials and Equipment

   a. The Contractor shall provide all materials, equipment, and installation in compliance with the latest applicable standards from ASIS, ANSI, FCC, ASTM, EIA/TIA, IEEE, NEC, NFPA, NEMA, OSHA, REA, and UL.

2. Acceptance Testing

   a. Verify by inspection and formalize by signed-off inspection documentation that system installation has been performed as specified.

   b. Execute test plan and formalize by documentation sign-off that system performance has been demonstrated to the satisfaction of Owner. Owner’s Representative retains right to suspend and/or terminate testing at any time upon failure of the system to perform as specified. Owner’s written acceptance of system is a requirement of Closeout, and shall not conclude the Closeout Documentation stage.

      1) Collaborate with Owner’s Representative prior to start of testing, to establish criteria pass/fail criteria and classification of test execution problems, such as:

         (a) Pass/fail: Criteria determining what constitutes a test pass or failure.

         (b) Suspension and resumption: Criteria determining when testing must be suspended and resulted later.

         (c) Show Stopper: Stop test, fix problem and restart test from beginning.

         (d) Major Problem: Fix problem before test can be resumed or concluded.

         (e) Minor Problem: Add problem to “punch list”, complete test.

         (f) Special Issue: Investigate to determine which problem category above category applies.

   c. Provide tests specified below, when applicable or required by Owner, and as indicated under individual items of material, equipment, and work specified in this Specification.

      1) Furnish all test equipment and instruments required for the tests.

      2) Responsible, qualified employees of the contractor in the presence of the Owner or an authorized representative shall perform the cable testing.

      3) All individuals involved in the testing phase of the project shall not have been involved in the installation phase nor shall have immediate knowledge of the installation task.

d. End-to-end performance and calibration of all parts and channels shall be tested prior to testing in presence of System Designer.

e. Performance testing of randomly-selected doors and standalone devices shall be performed in presence of System Designer. System shall be accepted by System Designer prior to testing in presence of Owner.

1.08 WARRANTY & SUPPORT

1. Warranty
   a. Warranty shall meet the following criteria:
      1) This warranty will cover all cables, terminations, and components provided by the Contractor.
      2) Minimum 1-year written warranty covering workmanship and materials from the date of project completion. All repairs shall be made at no cost to the Owner during the warranty period.
      3) Corrections shall start within 48-hours of notification from Owner.
   b. If the warranty is needed by the Owner within the warranted period and the original installer is no longer in business, System manufacturer shall find a substitute certified contractor and assume costs to fulfill the obligations of the warranty.
   c. Upon acceptance of the warranty paperwork and test results from the Contractor, System manufacturer will mail a notification letter to the installer and a notification letter with warranty certificate to Owner.
   d. The warranty period shall commence following the final acceptance of the project by Owner and written confirmation of warranty from System manufacturer.
   e. Provide 5-year software service agreement. Include associated licenses and renewal fees for the agreement's duration. Agreement and licenses shall commence following the project's substantial completion, and not the Contract's purchase date.
2. Manufacturer Support:
   a. For the duration of the System subscription, automatically provide documented feature and security updates to cloud-based System software and Mobile Apps at no additional charge. Software, Mobile App and firmware updates shall be provided on a continuous basis.
   b. Provide direct live telephone technical support free of charge both to end users and installing/maintaining security services contractors.
   c. Provide optional additional-cost professional services for on-site deployment support to installing/maintaining services firm.
3. Maintenance and Service: Servicing Contractor shall:
   a. General Requirements:
      1) Provide all services required and equipment necessary to maintain the entire integrated electronic security system in an operational state as specified for a period of one year after formal written acceptance of the system. Provide all necessary material required for performing scheduled adjustments or other non-scheduled work. Minimize impacts on facility operations when performing scheduled adjustments or other non-scheduled work.
   b. Description of Work:
      1) Provide adjustment and repair of the Cloud-Based Physical Access Control System on-site equipment consistent with Manufacturer guidance and instructions.
   c. Personnel:

1) Ensure service personnel are certified in the maintenance and repair of the selected type of equipment and qualified to accomplish all work promptly and satisfactorily.

d. Schedule of Work:

1) Perform work during regular working hours, Monday through Friday, excluding federal holidays.

e. Emergency Service:

1) Provide staffed emergency service center service 24 hours a day 365 days a year. Provide emergency service center telephone number for the Owner to request service when system is not functioning properly. Owner has sole authority for determining catastrophic and non-catastrophic system failures within parameters stated in General Project Requirements.

2) For catastrophic system failures, provide same day four-hour service response with a defect correction time not to exceed eight hours from notification. Catastrophic system failures are defined as any system failure that Owner determines will place the security of one or more sites at increased risk.

3) For non-catastrophic failures, provide eight-hour service response with a defect correction time not to exceed 24 hours from notification.

f. Operation:

1) In performance of scheduled adjustments and repair, at completion of work document the following:

(a) For routine maintenance, briefly describe the work done.

(b) For problem resolution, describe the problem, the troubleshooting work done, root cause discovered, and remedial action taken.

(c) Verify operation of the system relative to any changes, repairs or part replacements made.

1.09 DELIVERY, STORAGE, AND HANDLING

1. To prevent damage, theft, soiling, and misalignment, protect equipment during transit, storage, and handling
2. The contractor shall coordinate the secure storage of equipment and materials on site, or, if no on-site storage is available, shall provide their own secure storage at the Contractor’s expense.

a. Do not store equipment where conditions fall outside the manufacturer's recommendations for environmental conditions.

b. Do not install damaged equipment. Remove environmental conditions from the site and replace damaged equipment with new equipment.

c. If off-site storage of materials is necessary, this shall be at the Contractor’s expense.

1.10 PROJECT CONDITIONS

1. Project Environmental Requirements

a. Hazardous Materials Prohibition

1) The Contractor shall ensure that all materials used in the project are asbestos-free, unless specifically authorized in writing by the Owner.

b. Existing Conditions

1) Verify that all conditions on the project site are acceptable for the Work specified in this Section. Prior to bid opening, notify the System Designer, in

writing, of any discrepancies, conflicts, or omissions. Otherwise, correct these issues at no additional cost to the Owner.

2) Continue to monitor the project site. If conditions develop that require a variance from the Specifications or Drawings, then immediately notify the Owner in writing. Otherwise, make recommendations, submit drawings showing how the Work may be installed, and, upon approval, proceed with the necessary changes without additional cost to the Owner.

c. Environmental Limitations: Do not deliver or install equipment frames and cable trays until spaces are enclosed and weather–tight, wet work in spaces is complete and dry, and work above ceilings is complete.

d. Confirmation of Pathway and Cable Manager sizing:

1) Wherever cabling pathways or managers are installed, it is the Contractor's responsibility to confirm pathway or manager sizing to represent no more than 25% fill upon installation according to manufacturer's fill tables.

2) Pathways deemed overfilled upon installation will not be accepted and shall be remedied at Contractor expense.

1.11 USE OF THE SITE

1. Where the Owner deems it necessary to place restrictions, use the site as directed by the Owner.
2. When proceeding with the work, do not interfere with the ordinary use of streets, aisles, passages, exits, or operations of the Owner. During the day, set up cones and barriers in hallways and walkways. Do not string cable down the hallways during normal hours.
3. Request a hazardous materials worksheet that identifies potentially-hazardous locations. Do not proceed with any work in locations where hazardous materials are known to be. Obtain instructions from the Contractor's Project Manager on and when to work in these areas.
4. Multiple times each day, each contractor shall remove all trash and debris from the site. Before leaving the room each day:
   a. The Contractor shall replace all ceiling tiles that they have removed.
   b. The Contractor shall place all furniture and equipment that they have moved back into its original location.
   c. The Contractor shall return any equipment that they have disconnected to working order.
   d. The Contractor's Job Foreman shall inspect all work locations to ensure that the rooms are clean and that all of the tasks described above have been done.
   e. It is recommended that the Contractor inspect the site and take pictures to document the condition of the ceilings and walls.

1.12 RESPONSIBILITIES AND COORDINATION

1. The Contractor shall provide all materials, qualified labor and services required to ensure a complete and operational system, installed in accordance with the intent of the Contract Documents.
2. The Contractor shall furnish and install all incidental items not actually shown or specified, but which are required by best practices to provide complete functional systems.
3. The Contractor shall coordinate the details of facility equipment and construction for all specification divisions, which affect the work covered under this Division.
4. The Contractor shall coordinate all activities with the overall construction schedule.
5. The Contractor shall coordinate with all other trades. The Contractor will submit a schedule for the installation within 15 days of contract award.

a. The schedule shall include delivery, installation, and testing for conformance to specific job completion dates.

b. At minimum, the schedule shall provide dates for the start of demolition, the completion of demolition, the installation start date, the completion of copper cabling, the completion of backbone cabling, the completion of testing and labeling, cutover, the completion of the final punch list, final inspection, and acceptance.

6. The Contractor shall develop a bill of materials, perform material management and efficient use of the materials whether they are issued by Owner or purchased by the Contractor.

7. The Contractor shall ensure materials, in excess of, those required to complete the project are kept in their original condition and packaging for restocking.

8. The Contractor shall maintain existing cables and terminations not determined to be within the demolition scope of work. Cables damaged, removed, or unterminated shall be reinstalled and recertified with the manufacturer's certified installer, and test results provided to the Owner.

9.

1.13 DESIGN CRITERIA

1. Compliance by the contractor with the provisions of this Specification does not relieve him or she from the responsibilities of providing materials and equipment of proper design, mechanically and electrically suited to meet operating requirements at the specified service conditions.

1.14 LABELING

1. Refer to Owner's standards for labeling requirements.

2. Comply with TIA/EIA–606–A, TIA/EIA–606–A, Addendum 1 and UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.

PART 2 PRODUCTS

2.01 GENERAL

1. This Section includes General Requirements for each section in Division 28 and shall be used in conjunction with specifications, other related Divisions and related Contract Documents to establish the total requirements for the project.

2. All materials and products shall be:

   a. Appropriate for the intended use

   b. Permitted by the Authority Having Jurisdiction (AHJ)

3. All products shall be new, of the latest version at time of bid, and brought to the job site in original manufacturer's packaging. Used equipment and damaged material will be rejected.

4. Any modifications to equipment to suit the intent of the specifications shall be performed in accordance with these requirements.

5. Take care during installation to prevent scratches, dents, chips, etc. Equipment with significant or disfiguring cosmetic flaws will be rejected.

6. All components will be approved by the System Designer and shall have the most aesthetic value possible while maintaining specified functionality. Hardware shall:

   a. Be in compliance with the Construction Documents.

   b. Have fit and finish compatible with the existing surrounding structure.

   c. Be unobtrusive.

   d. Provide the required functionality.

7. Fabricate custom-made equipment with careful consideration given to aesthetic, technical, and functional aspects of the equipment and its installation.
8. Provide products that are suitable for the intended use, including, but not limited to environmental, regulatory, and electrical factors.
9. Provide Torx screws for all devices specified in technical sections. Additionally, provide Torx screws for pathways associated with devices specified in technical sections below 10’ AFF.

2.02 SUBSTITUTION POLICY

1. Substitution of specified products or systems is not allowed.
2. Contractor shall assume all costs for removal and replacement of any product installed in substitution of those specified. Such costs shall include but not be limited to labor, materials as well as any penalties, fees or costs incurred for late completion.

2.03 WORKSTATION

1. Workstation for viewing security systems will be OFCI.

PART 3 EXECUTION

3.01 WORKMANSHIP

1. Manufactured products, materials, equipment, and components shall be provided, conditioned, applied, installed, connected, and tested in accordance with the manufacturer’s specifications and printed instructions.
2. The installation of all system components shall be carried out under the direction of qualified personnel. Appearance shall be considered as important as mechanical and electrical efficiency. Workmanship shall meet or exceed industry standards.

3.02 INTENT OF DRAWINGS

1. The Security drawings show only general locations of equipment, devices, raceways, cable trays, boxes, etc., unless specifically dimensioned.
2. The Contractor shall be responsible for the proper placement and routing of equipment, cable, raceways, cable runway, and related components, according to the Contract Documents and subject to prior review by the Owner and System Designer.
3. The Contractor shall refer any conflicts within the Contract Documents to the Construction Manager and/or Owner for resolution.

3.03 GROUNDING

1. Comply with requirements in both 26 0526 "Grounding and Bonding for Electrical Systems" and 28 0526 "Grounding and Bonding for Security Systems" for grounding conductors and connectors.
2. Comply with ANSI/TIA–607 and the local Electrical Code.

3.04 SERVICE CONTINUITY

1. Maintain continuity of communications services to all functioning portions of the process or buildings during hours of normal use.
2. Arrange temporary outages for cutover work with General Contractor. Keep outages to a minimum number and a minimum length of time in order to provide minimum impact.

3.05 LAYOUT AND TOLERANCES

1. Follow as closely as practicable the schematic design shown on the drawings. Make all necessary measurements in the field to verify exact locations and ensure precise location and fit of specified items in accordance with the drawings. Make no substantial alterations without prior approval of the Owner and the System Designer.

3.06 CONSTRUCTION REVIEW

1. The System Designer and Owner will review and observe installation work to ensure compliance by the contractor with requirements of the Contract Documents.
2. Review, observation, assistance, and actions by the System Designer and Owner shall not be construed as undertaking supervisory control of the work or of methods and means employed by the contractor. The System Designer and Owner review and observation activities shall not relieve the contractor from the responsibilities of these Contract Documents.
3. The fact that the System Designer and Owner does not make early discovery of faulty or omitted work shall not bar the Owner from subsequently rejecting this work and withholding payment until the contractor makes the necessary corrections.
4. Regardless of when discovery and rejection are made, and regardless of when the contractor is ordered to correct such work, the contractor shall have no claim against the System Designer or Owner for an increase in the Subcontract price, or for any payment on account of increased cost, damage, or loss.

3.07 PROJECT RECORD DOCUMENTS

1. Provide detailed project record documentation for sections listed in Part 1.
2. Maintain separate sets of redlined record drawings for the communications work, which show the exact placement, and identification of as–built system components. These are subject to weekly review by the General Contractor, Owner, or its representative.

3.08 ADDITIONAL CONTRACTOR REQUIREMENTS

1. Contractor is responsible for the removal and disposal of all installation and construction debris created in the process of the job.
2. All work areas will be cleaned at the conclusion of the project and no tools or materials shall be left in a manner as to pose a safety hazard.
3. Projects are not considered finished and will not be paid by Owner until all debris, dust, etc. has been cleaned and removed to the Owner’s satisfaction.
4. Contractor shall remove all abandoned cable per Article 800 of the National Electrical Code and per TIA, BICSI, and ASIS standards, recycling these materials where possible. Removal of orphaned cable is mandatory. Contractors shall consider this when placing bids.

3.09 INTEGRATIONS

1. Coordinate with trades, Owner’s staff and/or IT representatives, and other providers where required.

3.10 FINAL ACCEPTANCE

1. The Contractor is required to notify the System Designer and Owner of a proposed appointment for Final Inspection at least 72 hours before the appointment.
2. Owner may visit site during construction to ensure installation is in compliance with their requirements. Punch items discovered by Owner shall be resolved within 10 days of discovery.
3. System acceptance shall be defined as that point in time when the following requirements have been fulfilled:
    a. All submittals and documentation have been submitted, reviewed, and approved.
    b. The complete system has successfully completed all testing requirements.
    c. All punch list items have been corrected and accepted.

3.11 TRAINING

1. Provide a minimum of (1) 8 hour training session with a minimum of (4) Owner’s staff at the project site (or other location designated by the Owner) by a qualified instructor (presence of

equipment manufacturer if needed for additional assistance). Topics shall include system usage, operation and maintenance, and minor modifications.

3.12 WARRANTY

1. Maintenance
   a. Contractor shall perform preventative maintenance every (6) months after final completion.
   b. Contractor shall perform at a minimum:
      1) Cleaning of lenses
      2) Dust removal
      3) Camera readjustments
      4) System performance re-validation
      5) Documentation of equipment requiring replacement (i.e. broken lenses/domes, broken locks, loose handles, etc.)
      6) Costs shall be provided for extended services not covered by warranty.
2. Software
   a. Contractor shall perform firmware upgrades every (6) months after final completion.
      1) Contractor shall coordinate firmware upgrades for software applications to remain compatible.
      2) Coordinate roll-back of software versions with Owner's IT staff.
   b. Contractor shall provide licenses as required to maintain software applications.

END OF SECTION

SECTION 281000
ACCESS CONTROL AND ALARM MANAGEMENT SYSTEM

PART 1 GENERAL

1.01 SUMMARY

1. Contractor Shall Provide and Install
    a. The materials and labor required for the installation of access control and alarm management systems include, but are not limited to:
        1) Access control system application and servers
        2) Access control panels and enclosures
        3) Power supplies and enclosures
        4) Credentials
        5) Credential readers
        6) Request-to-exit devices
        7) Electrified locksets
        8) Exit buttons
        9) Through-wire electrified transfer hinges
        10) End-of-line resistors
        11) Cabling
    b. Although such work is not specifically mentioned herein or on the Drawings, the Contractor shall furnish and install all miscellaneous items, accessories, appurtenances, and devices incidental to or necessary for a sound, secure, and complete installation, without claim for additional payment.
2. Related Sections:
    a. Document 0070000 – General Conditions of the Standard Form Construction Contract between County and Contractor
    b. Section 260526 – Grounding and Bonding for Electrical Systems
    c. Section 260533.13 – Conduit for Electrical Systems
    d. Section 260533.16 – Boxes for Electrical Systems
    e. Section 280000 – Common Work Results for Security
    f. Section 282000 – Video Surveillance System

1.02 SYSTEM DESCRIPTION

1. Access Control and Alarm Management System (ACAMS)
    a. An access control system will be provided to facilitate access through Owner-designed portals via credential readers, electrified locksets, door contacts, and request-to-exit devices. Cabling, control panels, and power supplies will be provided to support devices.
    b. System will be tested to ensure failures are remediated, and that the system will be turnkey.
    c. Credentials will be provided for proper access through the project boundaries. In addition, access levels/groups, user information, and visitor information will be coordinated.

PART 2 PRODUCTS

2.01 ACCESS CONTROL SYSTEM APPLICATION AND SERVERS

1. Basis of Design: Pro-Watch Security Management System Suite as manufactured by Honeywell Commercial Security.
    a. Function as an electronic access control system and integrates alarm monitoring, CCTV, digital and network video, ID badging and database management into a single platform. A modular and network-enabled architecture allows maximum versatility for tailoring secure and dependable access and alarm monitoring solutions.
    b. Available in Four Scalable Editions:
        1) Pro-Watch Lite Edition: Utilizes the Microsoft SQL Express database for applications with one to four users and up to 32 controlled doors.
        2) Pro-Watch Professional Edition: Utilizes Microsoft SQL Express database for applications from one to five users and up to 64 controlled doors. Provides a set of tools to easily backup, restore and maintain the Database. Allows expansion to Corporate and/or Enterprise Edition without changing the user interface or database structure.
        3) Pro-Watch Corporate Edition: Utilizes Microsoft SQL Server database for applications from unlimited users and up to 20,000 controlled doors. Provides a set of tools to easily backup, restore and maintain the database. Allows for expansion Enterprise Edition without changing the user interface or database structure.
        4) Pro-Watch Enterprise Edition: Incorporate regional server architecture. Regional sites operate autonomously with all information required to maintain security locally. The enterprise server maintains any critical system information via synchronization with each regional site. A single enterprise server provides global management of all regional servers and acts as a central collecting point for all hardware configurations, cardholder and clearance code data and transaction history.
    c. The contractor is to determine which edition best suites the application.
    d. Security Management Software for Project.
        1) Edition: Pro-Watch Enterprise.
2. Software Requirements: The Security Management System; a modular and network-enabled access control system capable of controlling multiple remote sites with alarm monitoring, ID badging, video integration, and intercom and allowing for easy expansion or modification of inputs via remote monitoring stations. The System to be controlled at a central computer location under the control of a single software program and provide full integration of all components. It is to be alterable at any time depending upon facility requirements. Reconfiguration may be accomplished online through system programming.
    a. Multi-User/Network Capabilities: Support multiple operator workstations via local area network/wide area network (LAN/WAN).
        1) Communications Between the Workstations: The server computer utilizes the TCP/IP standard over industry standard IEEE 802.3 (Ethernet).
        2) Supervised communications between the server and workstations, automatically generate alarm notifications when the server is unable to communicate with a workstation.
        3) Network server operators have the capability to log on to workstations and remotely configure devices for the workstation.
        4) Standard operator permission levels shall be enforced with a full operator audit.
    b. Concurrent Licensing: Provides the ability for any client workstation to connect to the database server as long as the maximum number of concurrent connections purchased has not been exceeded.

c. Terminal Services: Supports Windows Server Terminal Services.

1) The Security Management System server application may reside on the Windows Terminal Server. Operating systems supporting a standard web browser must be capable of utilizing the thin client architecture.

2) Unlimited connections, based on concurrent licensing to the Software. Obtain full functionality through the intranet connection allowing full administration and monitoring without needing a local installation.

d. Relational Database Management System: Supports industry standard relational database management systems. This includes Microsoft SQL Server 2016 SP1, 2017 and 2019.

e. Database Partitioning: Provides option to restrict access to sensitive information by user ID.

f. Memory: Proprietary software programs and control logic information used to coordinate and drive system hardware are to be stored in read-only memory.

g. LDAP/ Microsoft Active Directory Services: Support of Lightweight Directory Access Protocol (LDAP) for enabling users to locate organizations, individuals, and other resources such as files and devices in a network, whether on the public internet or on a private intranet.

1) Provide a direct link to Microsoft Active Directory Services. Allow transfer of Active Directory users into the database via the Data Transfer Utility.

2) Conversely, Users will be capable of being exported to the Active Directory.

h. Unicode: Utilize Unicode worldwide character set standard. Support double-byte character sets to facilitate adaptation of the System user interface and documentation to new international markets.

1) Language Support: Includes English, Spanish, Portuguese, French, German and Simplified Chinese.

i. Encryption: Provide multiple levels of data encryption.

1) True 128-bit AES data encryption between the host and intelligent controllers.

(a) Encryption: Data integrity to be compliant with FIPS-197 requirements and SCIF environments.

(b) Master Keys: Downloaded to the intelligent controller, which shall then be authenticated through the Security Management System based on a successful match.

2) Transparent database encryption, including log files and backups.

3) SQL secure connections via SSL or TLS1.2 with PW7K hardware.

j. Supervised Alarm Points: Supervised and non-supervised alarm point monitoring.

1) Upon Alarm Recognition: System to be capable of switching CCTV cameras that are associated with the alarm point.

k. Compliance and Validation: Incorporate signature authentication where modifications to System resources will require either a single or dual signature authentication.

1) Administrators: Have ability to select specified devices in the System where data manipulation will be audited, and signatures will be required to account for the data modification.

2) Upon Resource Modification: User will be required to enter a reason for change or select a predefined reason from a list.

3) Data will be securely stored and maintained in the database and can be viewed using the reporting tool.

4) Functionality will meet the general requirements of Validation and Compliance through Digital Signatures with special attention to the case of Title 21 CFR Part 11 Part B compliance.

l. Clean Room Solution:

1) Overview: System provides a clean room solution which enables users to manage their "Clean Environments" or other areas requiring special restricted access through a process-oriented graphical user interface (GUI).

2) Configuration: Users have the capability of adding, editing, or deleting clean rooms.

3) Each "Clean Room:" Capable of having a contamination level set.

(a) Entry to a higher-level contamination area will automatically restrict access to cleaner level areas.

(b) Individual cards must be capable of being reset on an immediate one time, automatic, or per-hour basis.

3. Security Management System Operational Requirements:

a. System Operations:

1) Windows Authentication Login: Use an integrated login method which accepts the user ID of the person who has logged on to Windows.

2) Password: Use an integrated authentication method which utilizes Windows user accounts and policies.

3) Information Access: Capable of limiting operators' access to sensitive information. Operators must have proper authorization to edit information.

4) Shadow Login: Lets users login over a currently logged-on user without having the current user log off the System or out of the Windows operating system.

5) Graphical User Interface: Compliant with Microsoft graphical user interface standards, with the look and feel of the software being that of a standard Windows application, including hardware tree-based system configuration.

6) Guard Tour Module: Allows users to program guard tours for their facility. Tours do not require the need for independent or dedicated readers.

7) Secure Mode Verification Control (e.g., force guard to do a visual verify): From the verification viewer. Allow user or guard to decide the access of an individual who presents their card at a designated secure mode reader.

8) Database Partitioning: A System in which partitions are set up at installation and cannot be easily changed is not acceptable.

9) Status Groups: Real-time system status monitors that graphically depicts all logical devices.

10) Automatically Disable Card upon Lack of Use: Set a predefined time period in which cardholders may swipe their card through a card reader.

11) User Functions and ADA Ability: Provide user functions and ADA (Americans with Disabilities Act) ability that provides the capability to trigger an event at the System intelligent controller when a defined card is presented.

12) Pathways: Support pathways programming. A pathway is an object that combines input points to be masked (shunted) for a set duration, and an output point to be activated, when a particular card receives a local grant at a reader.

13) Database Audit Log: Capable of creating an audit log in the history file following any change made to System database by an operator.

14) Operator Log: Capable of creating an action log in the history file following actions performed by an operator.

15) Alarm Routing: Capable of defining routing groups that determine what event information is to be routed to a user or class of users.

16) Global and Nested Anti-Pass back: Support use of an optional Anti-Pass back mode, in which cardholders are required to follow a proper in/out sequence within the assigned area.

17) Two Person Rule: Support a "two-person rule" to restrict access to specific access areas unless two cardholders present two different valid cards to the reader one after the other within a period time defined by the door unlock time multiplied by a factor of 2.

18) Occupancy Restrictions: Allow user to define the minimum and maximum occupancy allowed in a designated area.

19) Multiple Sequential Card Swipes to Initiate Procedure: Allow the user to define a logical device, quantity of consecutive identical events, a time period and a System procedure to trigger when the event occurs a maximum quantity of times in the allocated time period.

20) Hardware Templates: Include ability to define hardware templates (door templates) to simplify the process of creating an access control system. Hardware templates allow a user to define a "typical" door configuration and then use that template over and over in the process of defining doors.

21) Mercury Digital Terminal (MRDT) with Keypad: Accommodate Mercury Intrusion hardware like the MRDT.

22) MRDT works with PW-6000/7000 panel to provide intrusion functionality. Mercury Intrusion requires a special Pro-Watch license.

23) Panel Conversion Utility: PW6K hardware can be converted to PW7K hardware.

b. Access Control Functional Requirements: Include validation based on time of day, day of week, holiday scheduling, site code verification, automatic or manual retrieval of cardholder photographs, and access validation based on positive verification of card/PIN, card, and video. The following features are programmable and capable of being modified by a user with the proper authorization:

1) Time Zones: Define the period during which a reader, card, alarm point, door, or other system feature is active or inactive. In addition to Monday-Sunday, there shall be at least one day of the week called Holiday.

2) Holidays: Allow holidays to be entered into the System. Holidays will have a start date plus duration defining multiple days. Holidays have a holiday type of 1, 2, or 3, which may be defined by the user.

3) Response Codes: Allow user to enter a predefined code to represent a response to an alarm occurring in the facility.

4) Clearance Codes: Allow user to establish groups of readers at a facility for the purpose of granting or denying access to badge holders. Clearance codes may be assigned to companies and individuals employed by the company and may be modified for individual users in the badge holder maintenance application.

5) Companies: Each badge holder entered into the Security Management System must be assigned a company code identifying the individual's employer. The

company information dialog box displays and maintains information related to companies having access to the facility.

6) Access Groups: Allow a user or group of users via company selection, a temporary denial of access to specific readers or areas based on a preconfigured event. The group access function limits access to a group of cardholders, overriding other access criteria.

7) Event: Definitions are shipped with system software but are capable, upon installation, of being modified, added to, or deleted from the System.

8) Alarm Pages: Create an unlimited number of customized alarm pages for the alarm monitor and each are assignable to users and user classes.

9) Event Types: Definitions are shipped with system software but are capable, upon installation, of being modified, added to, or deleted from the System.

10) Dynamic Graphical Maps: Provides the user with the means to add maps and indicator icons to maps that represent input/output points, logical devices, or cameras located throughout the System.

    (a) Maps display the state and condition of alarm points.

    (b) Provides the ability to monitor the channels or panels.

11) Brass Keys: Maintain information related to assets issued in the facility, including brass keys, laptops, RSA keys, cell phones, company cards, etc.

12) ID Badging Client: Maintain information related to a badge holder's card access privileges. Upon entering this application, a window shall appear on the screen and all actions (add, modify, or delete) involving badges and cards are to be initiated from this window.

    (a) Access Privileges: Linked to cards used to gain access to facility doors.

    (b) Modifications are made by adding or deleting clearance codes, or by door types assigned to the cards or to a badge holder.

13) ID Badging System: Includes seamlessly integrated ID badging system.

14) Users: Information related to users of the System software is stored in the database. Users entered into the System are assigned access privileges of the class to which they are assigned.

15) p. Data Transfer Unit (DTU): Enables data to be imported from an external system directly into the System database and exported to an external system.

    (a) Insert Only: If a "data file key column number" is to be provided, the DTU will only insert a new badge record if the key column value is not found.

        (1) An error will be displayed in the log file if an existing badge record is found.

        (2) If no "data file key column number" is provided, every record will be inserted into the System.

    (b) Updates only: The DTU uses the "data file key column number" to look for the matching System record. An error is logged in the log file if the badge holder is not found in the System database.

    (c) Inserts, Updates: The DTU uses the "data file key column number" to look for the matching System record. If a matching record is not found, the DTU inserts the data. If a matching record is found, the record is updated.

    (d) Supports SOAP web services.

16) Generic Channel Interface: Ability to define generic communications channels over serial port or TCP/IP network socket including IP address and port/socket, to support custom integration of external foreign devices. Generate events based on data received from channel matching operator pre-defined instructions.

c. Application Localization: Support at least seven languages including English.

1) Available Languages: German, French, Spanish, Italian, Chinese (simplified), Portuguese (Brazil), Norwegian, Chinese (Traditional), Danish, and Dutch.

2) Database resources will be localized and will include a standard U.S. English help file.

d. Event Manager: Utilize an event manager as a component of system administration and offer ability to have users control the amount of data stored as well as a quick snapshot of the logged data in the system.

1) Using the various logs in event manager, the user will be able to gather information about events, auditing, and operator actions.

2) Defined Logs: Event log, audit log, and unacknowledged alarms.

4. Intelligent Controllers - Hardware Requirements:

a. Distributed Architecture: Allows controllers to operate independently of the host. The architecture places key access decisions, event/action processing and alarm monitoring functions within the controllers, eliminating degraded mode operation.

b. Flash Memory Management: Supports firmware updates and revisions to be downloaded to the System. Upgrades to hardware and software occur seamlessly without the loss of database, configurations, or historical report data.

c. The security management system is to be equipped with access control field hardware required to receive alarms and administer access granted/denied decisions.

d. Field hardware must meet UL requirements.

e. Subject to compliance with requirements, provide Field Controllers or comparable products by one of the following:

1) Intelligent Controller Board:

(a) Honeywell Security PW7K1IC.

(b) Honeywell Security PW7K1ICE.

(c) Honeywell Security Legacy PW hardware.

2) Single Reader Module (SRM):

(a) Honeywell Security PW7K1R1.

(b) Honeywell Security PW7K1R1E.

3) Dual Reader Module (DRM):

(a) Honeywell Security PW1K1R2B.

4) Alarm Input Module (AIM):

(a) Honeywell Security PW7K1IN.

5) Relay Output Module (ROM):

(a) Honeywell Security PW7K1OUT.

6) Multiplexer:

(a) Honeywell Security PW5K2MX8PS.

7) Mercury Family Hardware:

(a) LP-1501.
(b) LP-1502.
(c) LP-2500 with Wiegand Reader.
(d) MR16IN (16 Input Board).
(e) MR16OUT (16 Output Board).
(f) MR50-S3 (Single Reader Board).
(g) MR52-S3B (2-Reader Board).

8) Enclosures - Hardware Requirements:
(a) Honeywell Security:
(1) PW5KENC1.
(2) PW5KENC2.
(3) PW5KENC3.
(4) PW5KENC4.
(b) Life Safety Standard Power Supplies with PW7K hardware:
(1) HWP-4DR-E2HWTC.
(2) HWP-4DR-E2HWTD.
(3) HWP-8DR-E4H1WPC.
(4) HWP-8DR-E4H1WPD.
(5) HWP-16DR-E8H1WTC.
(6) HWP-16DR-E8H1WPD.
(7) HWP-24DR-E12HWPC.
(8) HWP-24DR-E12HWPD.
(9) HWP-4DR-RGHWTC.
(10) HWP-4DR-RGHWTD.
(11) HWP-8DR-RGXHWTC.
(12) HWP-8DR-RGXHWTD.
(c) Life Safety Managed Power Supplies with PW7K hardware:
(1) HWP-4DRN-E2HWTC.
(2) HWP-4DRN-E2HWTD.
(3) HWP-8DRN-E4H1WPC.
(4) HWP-8DRN-E4H1WPD.
(5) HWP-16DRN-E8H1WTC.
(6) HWP-16DRN-E8H1WPD.
(7) HWP-24DRN-E12HWPC.
(8) HWP-24DRN-E12HWPD.
(9) HWP-4DRN-RGHWTC.
(10) HWP-4DRN-RGHWTD.
(11) HWP-8DRN-RGXHWTC.
(12) HWP-8DRN-RGXHWTD.

5. Third Party Integrations (SDK and API):

a. Permit custom integration with other third-party systems through an SDK or API.
    1) SDK: To support OBIX communication protocol and interface directly with the Niagara Framework for support of additional communications protocols.
    2) API: Utilizes SOAP and REST protocols.
b. Acceptable Products:
    1) Manufacturer and Part Number: Honeywell Security HSDK.
    2) Manufacturer and Part Number: Honeywell Security API.

2.02 CREDENTIAL READERS

1. Credential readers shall:
    a. Operate at both 125 kHz and 13.56 MHz.
    b. Operate at the same frequency as credentials.
    c. Communicate via OSDP with the access control panel.
2. Credential readers shall match Owner's standard manufacturer.
3. Where standards do not specify a manufacturer, provide (1) of the following:
    a. HID Signo
    b. Or equal

2.03 REQUEST-TO-EXIT (REX) DEVICES

1. REX devices shall be integrated with the door hardware. Refer to Division 8.
2. For doors without integrated REX, REX devices shall:
    a. Operate at 12 or 24V DC.
    b. Mount to a single gang mud ring.
    c. Have adjustable coverable patterns.
    d. Selectable relay triggers.
3. Non-integrated REX shall match Owner's standard manufacturer.
4. Where standards do not specify a manufacturer, provide (1) of the following:
    a. Tyco T. Rex2
    b. Or equal

2.04 ELECTRIFIED LOCKSETS

1. Electrified locksets shall be integrated with the door hardware. Refer to Division 8.

2.05 THROUGH-WIRE ELECTRIFIED TRANSFER HINGES

1. Through-wire electrified transfer hinges shall be provided with the door hardware. Refer to Division 8.

2.06 EXIT BUTTONS

1. Exit buttons shall:
    a. Have the text: PUSH-TO-EXIT
    b. Be in English
    c. Have an adjustable timer
    d. Have stainless steel finish
    e. Mount to single gang ring or two-gang backbox
    f. Be SPDT or DBDT Form C

2. Credentials shall match Owner's standard manufacturer.
3. Where standards do not specify a manufacturer, provide (1) of the following:
    a. SDC 413N
    b. Camden CM-30AT
    c. Or equal

2.07 END-OF-LINE RESISTORS

1. End-of-line resistors shall be capable of multiple configurations.
2. Provide (1) of the following:
    a. George Risk Industries
    b. TE Connectivity
    c. Or equal

2.08 CABLING

1. Cabling shall be listed and rated for the environment.
2. Provide surge protection where cabling enters building with a dedicated path to building ground.
3. Conductor sizes shall fit into device terminals. Minimum conductor size shall be 18 AWG.
4. Provide the following cable types:
    a. S1:
        1) Credential readers
            (a) 24 AWG, 4 conductors, twisted-pair, shielded, RS-485, 120-ohm
    b. Door contacts
        1) 4 conductors, shielded
    c. Electrified locksets
        1) 4 conductors, shielded
    d. Request-to-exit devices or exit buttons
        1) 4 conductors, shielded
5. Door cabling shall:
    a. Be provided with 120-ohm termination resistors where card readers are OSDP.
    b. Have multiple components for every door device in an overall composite.
        1) Credential reader component cable shall be compliant with RS-485/OSDP standards.
        2) Lock and credential reader gauge shall be sized for maximum 10% voltage drop from panel to device.
    c. Be coordinated with device and hardware conductor gauges.
6. RS-485 cabling
    a. Shall be compliant with RS-485 standards.
7. Manufacturers:
    a. Smartwire
    b. Paige Datacom
    c. Belden
    d. Or equal

PART 3 EXECUTION

3.01 GENERAL

1. The Contractor shall input the credential data into the access control software.
2. Provide any required screws, anchors, clamps, hook and loop, miscellaneous grounding and support hardware, etc. needed to facilitate the installation of the cable plant system.
3. Furnish any special installation equipment or tools necessary to properly complete the installation.
4. Do not roll or store cable reels without an appropriate support structure.
5. Failure to follow the appropriate guidelines may require the installer to provide additional material and labor required to properly rectify the situation. This shall also apply to any and all damages caused to the cables by the installer during the implementation.
6. Provide fire blocking at all fire-rated penetrations.
7. Plug conduits where cabling has been installed in the main equipment room, backbone, and other cable entrance locations with re-enterable duct seal of flame retardant putty.
8. All techniques and fixtures used in the installation must minimize complexity and must allow for easy maintenance of, and ready access to, all components for test measurements.
9. All materials used in installation shall be resistant to fungus growth and moisture deterioration.
10. All of the pathways shown on the drawings are suggested routes for the Contractor to use as guidelines. Prior to construction, the Contractor shall coordinate in the field with other trades to determine the exact feeder, tie, and riser backbone cabling pathways. In any case where the communication pathway must be removed and re-routed, due to conflicts with other trades with which the Contractor did not previously coordinate, the Contractor is responsible for all costs associated with the removal and relocation.

3.02 ACCESS CONTROL SYSTEM APPLICATION AND SERVERS

1. Coordinate location, mounting, and power of servers with Owner.
2. Ensure application is viewable from Owner-selected workstation.
3. Coordinate access levels and group configurations with Owner.
4. Coordinate integration of active directory and new users with Owner.
5. Coordinate door scheduling with Owner.
6. Coordinate integration with Video Surveillance System and visitor management system.
7. Coordinate system application, programming, notifications, and GUI configuration with Owner.
8. Coordinate change of default passwords with Owner.
9. Ensure the following door statuses are functioning:
    a. Access granted
    b. Access denied
    c. Door forced open
    d. Door held open

3.03 ACCESS CONTROL PANELS AND ENCLOSURES

1. Enclosures shall be mounted to plywood.
2. Patch cords will be provided for connecting to the network.
3. Coordinate and document board MAC and IP addresses with Owner.

4. Wire enclosure tamper switches.

3.04 POWER SUPPLIES AND ENCLOSURES

1. Enclosures shall be mounted to plywood.
2. Circuits shall be dedicated and not shared with other systems.
3. Input power shall be hardwired.
4. Provide input surge protection.
5. Provide lock diodes where not integral to the lock. Coordinate with Division 8.

3.05 CREDENTIALS

1. Coordinate required part numbers and ordering information with Owner.
2. Ensure facility codes do not exceed that of specified access control panels.

3.06 CREDENTIAL READERS

1. Mount square to device backbox.
2. Provide spacers where read range is impacted by nearby readers or backplanes.
3. Terminations shall be pigtailed.
4. Coordinate LED and sounder programming with Owner.
5. Ensure rough-in is ADA-compliant, and that junction boxes/pathways are on the secured side of the door.
6. Remove non-factory paint after walls are finished.

3.07 REQUEST-TO-EXIT DEVICES

1. For integrated REX devices, coordinate terminations and wire handoff with Division 8.
    a. Ensure REX is functioning prior to installation.
2. For non-integrated REX devices:
    a. Mount square to device backbox.
    b. Aim detection pattern as close as possible to door handle.
    c. Detection pattern shall not reflect off of adjacent surfaces or pass through openings to allow accidental device activation.

3.08 ELECTRIFIED LOCKSETS

1. Coordinate terminations and wire handoff with Division 8.
    a. Ensure electrified lockset is functioning prior to installation.
2. Coordinate wiring for doors with automatic push plates and door operators. Under no circumstance shall a push plate activate the door operator without an authorized credential read.
3. For doors with power supplies above the door, coordinate system configuration with Divisions 26 and 8.
4. Doors shall be failsecure with mechanical egress.
5. Provide fire relays at headend locations and at doors with power supplies above the door. Coordinate fire alarm integration with Fire Alarm Contractor.

3.09 EXIT BUTTONS

1. Mount square to device backbox.
2. Coordinate terminations and wire handoff with Division 8.
3. Set timer to allow for Code-minimum close times prior to locks re-engaging and for door to fully close.

3.10 THROUGH-WIRE ELECTRIFIED TRANSFER HINGES

1. Coordinate terminations and wire handoff with Division 8.
    a. Ensure through-wire electrified transfer hinge is functioning prior to installation.
2. Measure voltage drop at the lock termination from the power source.

3.11 DOOR CONTACTS

1. Shall be recessed for door frames. Provide surface-mounted contacts where recessing is not possible.
2. Coordinate door frame drilling and mounting with Division 8.
3. Contacts shall be secured and flush to mounting surface.
4. Contact color shall be closely matched with door frame.
5. In locations where armored loops are required, locate rough-in as close as possible to door for minimal loop length.
6. No more than (1) contact will be allowed per door leaf. For doors with multiple leaves, normally-open or normally-closed configuration shall be consistent throughout project.

3.12 END-OF-LINE RESISTORS

1. Provide configurations compliant with access control panel manufacturer.
2. Provide on device side. Resistors at the headend will be rejected.

3.13 CABLING

1. All cable runs must be continuous from the panel to the device location.
2. Group and bundle all cabling. Do not bundle with other systems.
    a. Division 27 cabling provided for Division 28 cabling are allowed to be bundled together.
3. Device wiring shall be consistent and documented. Color codes shall be uniform.
4. All cables shall originate and terminate at active or passive devices. Cables shall not be spliced. Where several devices are in close proximity, use approved housing to housing connectors and adapters.
5. Strip and terminate cabling utilizing manufacturer’s recommended tools. Pins, plugs, and terminals shall not be damaged.
6. All cables terminated in a connection plate mounted in an enclosure shall be dressed to allow cables to be removed from the enclosure and shall be of sufficient cable length to allow for service or re-termination. The plate shall either set on the floor or freely swing clear.
7. Cabling shall not be visible when walking through the facility. Cabling shall be in conduits, in cable tray, or in j-hooks above accessible ceiling.
8. All cables installed in vertical tray or chases shall be supported by means of appropriately-sized vertical cable supports on every third floor. Do not use nylon cable ties.
9. Cables shall not be pulled across sharp edges. Provide protection where edges exist or manually grind down edges for a smooth, polished surface.
10. Cables shall not be jammed between assemblies or equipment.
11. Abide by manufacturer’s pulling tension and bend radii.
12. Cable Installation in Conduit
    a. Through the entire length of all underground conduits, pull mandrel that is one size smaller than the conduit.
    b. When pulling cable, use water-based pulling lubrication. Lubricants that harden after installation are not allowed.

c. During long or difficult runs, use a dynamometer to measure pulling tension. Place the dynamometer between the cable puller and the pull line to monitor pulling tension. Do not exceed the manufacturer's maximum pulling tension.

d. Apply pulling grips suitable for use with copper cables to the ends of the cable. Consult the cable manufacturer to determine the appropriate pulling grip and method of attachment. Use breakaway or fuse links at the pulling grip and ensure that the correct "fuse pin" is installed in the fuse link. Channel locks and pliers used for pulling are now allowed.

e. To protect the cable ends until they are terminated, use cable caps (heat-shrinking type) to seal the ends of the cable.

f. Use cable blocks to facilitate the bending of cable. For bends between 5° and 45°, use a 45° cable block. For bends between 45° and 90°, use a 90° cable block.

g. The bend radius for all cables shall conform to manufacturer's specifications.

13. Provide 6' service loop in overhead runway in Technology rooms or at headend location.
14. Provide 6' service loop in device backbox, nearest cable tray, or j-hook, wherever is closest to the cable termination.
15. Do not expose cable to water, paint overspray, paint removal products, or water-based pulling lubricants, as these substances can negatively impact the performance of the cable.
16. Use cable bundling and securing materials as required to ensure that cable runs are securely held in place both vertically and horizontally.
17. Do not tighten bundling materials or securing devices so as to cause deformation of the inherent cable geometry or construction.
18. Cables shall be dressed, bundled, and neatly arranged.
19. Do not use cable ties or hook and latch tape to secure cable runs to other building systems (such as electrical conduit, EMT, sprinkler pipes, ceiling suspension members, etc.). Staples and drive rings are not allowed.
20. In areas considered environment air-handling spaces, only use appropriately-listed materials.

3.14 LABELING

1. Batteries shall be labeled with installation date.

END OF SECTION

SECTION 281600
INTRUSION DETECTION SYSTEM

PART 1 GENERAL

1.01 SUMMARY

1. Contractor Shall Provide and Install
    a. The materials and labor required for the installation of access control and alarm management systems include, but are not limited to:
        1) Intrusion detection panels
        2) Cellular communicators
        3) Keypads
        4) Door contacts
        5) Motion detectors
        6) Strobes
        7) Temperature sensors
        8) Duress buttons
        9) Local alarms
        10) End-of-line resistors
        11) Cabling
    b. Although such work is not specifically mentioned herein or on the Drawings, the Contractor shall furnish and install all miscellaneous items, accessories, appurtenances, and devices incidental to or necessary for a sound, secure, and complete installation, without claim for additional payment.
2. Related Sections:
    a. Section 000000 – Procurement and Contracting Requirements
    b. Section 010000 – General Requirements
    c. Section 260526 – Grounding and Bonding for Electrical Systems
    d. Section 260533.13 – Conduit for Electrical Systems
    e. Section 260533.16 – Boxes for Electrical Systems
    f. Section 280000 – Common Work Results for Security

1.02 SYSTEM DESCRIPTION

1. Intrusion Detection System (IDS)
    a. An intrusion detection system will be provided for monitoring breach points along the perimeter when armed or on a predefined schedule. Door contacts, motion detectors, keypads, panels, power supplies, and cabling will be provided to support the system.
    b. System will be tested to ensure failures are remediated, and that the system will be turnkey.

PART 2 PRODUCTS

2.01 INTRUSION DETECTION PANEL

1. Combined access control, burglary, and commercial fire control panel
2. Eight onboard burglary zones and two onboard 12 VDC Class B powered zones
3. Supports battery backup with 12 VDC secondary power
4. Primary power: 16.5 VAC, 50 VA transformer

5. Bell and smoke auxiliary output share 2.0 A at 12 VDC
6. Supports up to 16 keypad bus addresses
7. Supports up to 140 Z-Wave devices with 738Zplus module
8. Provides real-time status integration for zones, doors, and outputs
9. Supports lockdown functions and temporary user codes
10. Designed for scalable access, intrusion, and fire applications
11. Manufacturer:
    a. DMP XR550

2.02 CELLULAR COMMUNICATOR

1. LTE cellular communicator for panel communications
2. Verizon LTE model variant
3. Primary power: 12 VDC from host panel
4. Current draw: 20 mA standby, 20 mA alarm, 47 mA peak transmitting
5. Includes LTE cellular antenna
6. Compatible with XT30, XT50, XT75, XR Series, and XF6 Series panels
7. Supports SecureCom Wireless activation
8. Provides panel cellular communication path for fire, burglary, and access systems
9. Supports listed commercial and household security/fire applications
10. Accessories include coax extension cables and antenna mounting bracket
11. Manufacturer:
    a. DMP 263LTE-V

2.03 KEYPAD

1. 5-inch touchscreen interactive display with resistive screen
2. Built-in proximity card reader
3. Supports four programmable expansion zones
4. Suitable for access, burglary, and household fire applications
5. Interactive shield supports quick arming and disarming
6. Carousel menu provides shortcut feature access
7. Display turns red during alarm condition
8. Internal speaker provided
9. Connects to 4-wire keypad bus
10. Mounts to conduit box, backbox, or flat surface
11. Manufacturer:
    a. DMP 7872

2.04 DOOR CONTACT

1. Recessed magnetic contact for steel door applications
2. Designed for specialized mounting in commercial steel doors
3. Self-lock mounting design
4. Rugged construction
5. Requires 15/16-inch diameter hole

6. Wire lead termination
7. Closed-loop magnetic contact type
8. Suitable for security door position monitoring
9. UL approved for specific fire door applications
10. Intended for recessed installation in steel frames and doors
11. Manufacturer:
    a. Edwards 1078-N

2.05 CEILING-MOUNT MOTION DETECTOR

1. Ceiling-mount passive infrared motion sensor
2. 360-degree coverage pattern
3. Intended for small- to medium-sized rooms
4. Recommended mounting height: 8 feet to 12 feet
5. Typical coverage area up to 30 feet by 30 feet
6. Twist-off cover for installation access
7. Front cover tamper feature
8. Power requirement: 12 VDC, approximately 17 mA
9. Operating temperature: 32°F to 122°F
10. Designed for ceiling-center mounting in protected area
11. Manufacturer:
    a. ADI Pro / WBOX 0E-PIRCM

2.06 WALL-MOUNT MOTION DETECTOR

1. Wall- or corner-mount PIR motion detector
2. Maximum coverage pattern: 40 feet by 56 feet
3. Detection range rated to 35 feet
4. Designed to maximize detection while reducing false alarms
5. Mounting height range: 6 feet 9 inches to 8 feet 9 inches
6. Compatible with SMB10 family swivel brackets
7. Suitable for wired security applications
8. Sleek ABS housing for residential or commercial interiors
9. Includes cover and wall tamper features
10. Part of the IS3000 motion detector family
11. Manufacturer:
    a. Honeywell / Resideo IS3035V

2.07 STROBE

1. Weatherproof strobe light for security notification
2. Input voltage: 12 VDC
3. Current draw: 115 mA
4. Operating voltage range: 9.6 to 14.4 VDC
5. Rated output: 60,000 candlepower
6. Flash rate: 60 to 100 flashes per minute

7. Operating life in excess of 200 hours continuous operation
8. Easy 2-wire connection with reverse polarity protection
9. Available lens colors: amber, blue, clear, and red
10. Operating temperature: -4°F to 140°F
11. Manufacturer:
    a. Potter SL-401

2.08 TEMPERATURE SENSOR

1. Dual-zone environmental monitoring device
2. Simultaneously supports onboard ambient sensor and one external sensor
3. Monitors temperature, humidity, or water presence with external sensor
4. Includes 8-event incident memory with time and date
5. LCD display flashes under alarm condition
6. Two zone-specific Form C relays plus one auxiliary Form C relay
7. Auxiliary alarm silence feature with 10-minute timer
8. Alarm time delay adjustable up to 120 minutes
9. Power requirement: 12 VDC at 120 mA
10. Mounts to standard 2-gang box or surface mount
11. Manufacturer:
    a. Winland EA-200-12

2.09 DURESS BUTTON

1. Latching hold-up button
2. Double-pole, double-throw contacts
3. Three screw terminal connections
4. Designed for silent alarm applications
5. Suitable for access control applications
6. Suitable for video surveillance triggering
7. Supports simultaneous activation or deactivation of multiple devices
8. Nearly silent activation
9. Reset tool included
10. Intended for commercial security system use
11. Manufacturer:
    a. ADI Pro 0E-HBLCHDD3T

2.10 LOCAL ALARM

1. Single-tone piezo siren
2. Flush mounts to single-gang electrical box
3. Rated output: 105 dB
4. Operating voltage: 9.6 to 30 VDC
5. Current draw: 20 mA at 24 VDC
6. Designed for indoor and outdoor applications
7. Single-gang flush-mount configuration

8. White finish
9. Compact profile: approximately 4.5 in. x 2.75 in. x 1 in.
10. Steady-tone operation
11. Manufacturer:
    a. ADI Pro / WBOX 0E-1GANGSIRN

2.11 END-OF-LINE RESISTORS

1. End-of-line resistors shall be capable of multiple configurations.
2. Provide (1) of the following:
    a. George Risk Industries
    b. TE Connectivity
    c. Or equal

2.12 CABLING

1. Cabling shall be listed and rated for the environment.
2. Provide surge protection where cabling enters building with a dedicated path to building ground.
3. Cabling shall be provided by Division 27.
    a. Provide category cabling for channel lengths (patch cables & horizontal cable) below 330 feet.
    b. Provide fiber media transceivers and fiber optic cabling for channel lengths greater than 330 feet.
    c. Provide patch cords.

PART 3 EXECUTION

3.01 GENERAL

1. Provide any required screws, anchors, clamps, hook and loop, miscellaneous grounding and support hardware, etc. needed to facilitate the installation of the cable plant system.
2. Furnish any special installation equipment or tools necessary to properly complete the installation.
3. Failure to follow the appropriate guidelines may require the installer to provide additional material and labor required to properly rectify the situation. This shall also apply to any and all damages caused to the cables by the installer during the implementation.
4. All techniques and fixtures used in the installation must minimize complexity and must allow for easy maintenance of, and ready access to, all components for test measurements.
5. All materials used in installation shall be resistant to fungus growth and moisture deterioration.

3.02 INTRUSION DETECTION SYSTEM PANEL AND ENCLOSURE

1. Enclosures shall be mounted to plywood.
2. Patch cords will be provided where ethernet communicators are utilized.
3. Where phone lines are used perf
4. Wire enclosure tamper switches.

3.03 POWER SUPPLIES AND BATTERIES

1. Circuits shall be dedicated and not shared with other systems.
2. Input power shall be hardwired.

3. Provide input surge protection.
4. Batteries shall be labeled with installation date.

3.04 DOOR CONTACTS

1. Shall be recessed for door frames. Provide surface-mounted contacts where recessing is not possible.
2. Coordinate door frame drilling and mounting with Division 8.
3. Contacts shall be secured and flush to mounting surface.
4. Contact color shall be closely matched with door frame.
5. In locations where armored loops are required, locate rough-in as close as possible to door for minimal loop length.
6. No more than (1) contact will be allowed per door leaf. For doors with multiple leaves, normally-open or normally-closed configuration shall be consistent throughout project.

3.05 MOTION DETECTORS

1. Mount square to device backbox.
2. Do not face direct sunlight.
3. Adjust sensitivity for the environment.
4. Enable pet immunity where specified.
5. Calibrate to maximize coverage area.

3.06 TEMPERATURE SENSORS

1. Locate sensors central to room, but away from direct sources of heat and air circulation (i.e. vents, ducts, heaters).

3.07 END-OF-LINE RESISTORS

1. Provide configurations compliant with access control panel manufacturer.
2. Provide on device side. Resistors at the headend will be rejected.

3.08 LABELING

1. Provide unique alphanumeric labels.
2. Provide labels on batteries indicating installation date.

3.09 CABLING

1. Cables shall be dressed, bundled, and neatly arranged.

END OF SECTION

SECTION 282000
VIDEO SURVEILLANCE SYSTEM

PART 1 GENERAL

1.01 SUMMARY

1. Contractor Shall Provide and Install
    a. The materials and labor required for the installation of access control and alarm management systems include, but are not limited to:
        1) Video surveillance system application and servers
        2) Networked video recorder
        3) Surveillance cameras
        4) Cabling
    b. Although such work is not specifically mentioned herein or on the Drawings, the Contractor shall furnish and install all miscellaneous items, accessories, appurtenances, and devices incidental to or necessary for a sound, secure, and complete installation, without claim for additional payment.
2. Related Sections:
    a. Document 0070000 – General Conditions of the Standard Form Construction Contract between County and Contractor
    b. Section 260526 – Grounding and Bonding for Electrical Systems
    c. Section 260533.13 – Conduit for Electrical Systems
    d. Section 260533.16 – Boxes for Electrical Systems
    e. Section 280000 – Common Work Results for Security
    f. Section 281000 – Access Control and Alarm Management System

1.02 SYSTEM DESCRIPTION

1. Video Surveillance System (VSS)
    a. A video surveillance system will be provided for remote viewing of cameras and forensic analysis of recorded video. Cabling, servers, recorders, and uninterrupted power supplies will be provided to support the system.
    b. System will be tested to ensure failures are remediated, and that the system will be turnkey.
    c. System will be integrated with the Access Control and Alarm Management System (ACAMS) for activations within ACAMS to trigger recording in the VSS.

PART 2 PRODUCTS

2.01 VIDEO SURVEILLANCE SYSTEM APPLICATION AND SERVERS

1. System shall be capable of the following:
    a. Customizable GUI with the ability for customizable icons to be placed onto a floor plan.
    b. Centralized user management.
    c. Export of events in CSV and PDF formats for auditing.
    d. Flexible rule-based system, driven by schedules and events.
    e. Native integrations and additional integrations via SDK/API.
    f. Unrestricted number of users, devices, servers, and sites with options for intelligent video walls.

g. Capable of virtual platforms and environments.
h. Federated system architecture.
i. ONVIF compliance.
j. Encryption between servers and clients.
k. Supports active directory.
l. Capable of failover recording.
m. Have gateway for future third party analytics/artificial intelligence applications to access events, cameras, video streams, and meta data.
n. Videowall-capabilities and adaptive streaming.
o. Independent playback for viewing multiple streams and recordings.
p. Capable of privacy masking camera views.

2. Servers shall:
   a. Be capable of hosting system applications.
   b. Server shall be able to be in RAID5 or RAID6 configuration.
3. Refer to manufacturer's recommendations and guidelines for additional performance requirements.
4. Provide licenses to support complete installation.
   a. Manufacturer:
      1) Honeywell MaxPro
      2) Milestone XProtect Corporate
      3) Genetec Omnicast
      4) Johnson Controls VideoEdge
      5) Or equal
5. Provide uninterrupted power supply (UPS) to backup system for (24) hours.
   a. Manufacturer:
      1) APC
      2) Schneider
      3) Or equal

2.02 NETWORKED VIDEO RECORDER & STORAGE

1. Networked video recorder & storage shall:
   a. Be able to process live and recorded at the same time.
   b. Have multiple storage containers.
   c. Have multiple networked interface cards.
   d. Server shall be able to be in RAID6 configuration.
   e. Be hot-swappable.
   f. Be sized for (30) days of storage with 10% future growth.
      1) Min 196TB of usable storage.
2. Manufacturer
   a. Genetec
      1) SV-2041E-R15-240T-20

2) SV-2041E-R6S-D480

b. Salient PowerProtect

1) PowerElite

2) PowerPlatinum

c. American Dynamics

1) ADVER112R5N2J

2) ADVER200R6DK

3) ADVER160R6DK

4) ADVEC01

5) ADVC-CENTLIC

6) ADVC-VECAM

d. Or Approved Equal

3. Provide uninterrupted power supply (UPS) to backup system for (24) hours.

a. Where standards do not specify a manufacturer, provide (1) of the following:

1) APC

2) Schneider

3) Or equal

2.03 SURVEILLANCE CAMERAS

1. Surveillance cameras shall:

a. Be ONVIF-compliant.

b. Have built-in onboard analytics.

c. Have wide dynamic range.

d. Support H.265.

e. Input/output connectivity.

2. Form factors shall be:

a. Type 1: indoor 2-megapixel fixed dome

b. Type 2: outdoor 2-megapixel fixed dome

c. Type 3: (4) 4-megapixel multi-sensor 270/360 degree (multidirectional dome

3. Provide mounts and adaptors as required to meet design intent.

4. Surveillance cameras shall match Owner’s standard manufacturer.

5. Where standards do not specify a manufacturer, provide (1) of the following:

a. Hanwha

1) Type 1: XNV-C6083

2) Type 2: XNP-6040HW

3) Type 3: PNM-C32083RVQ

b. Axis

1) Type 1: P3265-LV

2) Type 2: P3265-LVE

3) Type 3: P3748-PLVE

c. Illustra

1) Type 1: ProGen4 Compact Minidome
2) Type 2: ProGen4 Compact Minidome
3) Type 3: ProGen4 Multisensor

2.04 CABLING

1. Cabling shall be listed and rated for the environment.
2. Provide surge protection where cabling enters building with a dedicated path to building ground.
3. Cabling shall be provided by Division 27.
   a. Provide category cabling for channel lengths (patch cables & horizontal cable) below 330 feet.
   b. Provide fiber media transceivers and fiber optic cabling for channel lengths greater than 330 feet.
   c. Provide patch cords.

PART 3 EXECUTION

3.01 GENERAL

1. Provide any required screws, anchors, clamps, hook and loop, miscellaneous grounding and support hardware, etc. needed to facilitate the installation of the cable plant system.
2. Furnish any special installation equipment or tools necessary to properly complete the installation.
3. Failure to follow the appropriate guidelines may require the installer to provide additional material and labor required to properly rectify the situation. This shall also apply to any and all damages caused to the cables by the installer during the implementation.
4. All techniques and fixtures used in the installation must minimize complexity and must allow for easy maintenance of, and ready access to, all components for test measurements.
5. All materials used in installation shall be resistant to fungus growth and moisture deterioration.

3.02 VIDEO SURVEILLANCE SYSTEM APPLICATION AND SERVERS

1. Coordinate location, mounting, and power of servers with Owner.
2. Ensure application is viewable from Owner-selected workstation.
3. Coordinated federated servers with Owner.
4. Coordinate user permissions with Owner.
5. Coordinate integration of active directory and new users with Owner.
6. Coordinate integration with Access Control and Alarm Management System.
7. Coordinate system application, programming, notifications, and GUI configuration with Owner.
8. Coordinate change of default passwords with Owner.

3.03 NETWORKED VIDEO RECORDER & STORAGE

1. Coordinate location, mounting, and power of NVRs and storage with Owner.
2. Coordinate change of default passwords with Owner.
3. Coordinate location, mounting, and power of recorder with Owner.
4. Ensure UPS is functioning by temporarily unplugging primary power.

3.04 SURVEILLANCE CAMERAS

1. Mount square to device backbox.

2. Provide varifocal lenses for fixed view cameras.
3. Camera field-of-view shall be squared with no distortions, discolorations, or glare from other sources.
4. Cameras shall be set to encode streams at H.265.
5. Cameras shall output maximum resolution to networked video recorder.
6. Cameras shall be set to continuous with motion-triggered recording.
    a. Continuous recording shall be at 15 fps.
    b. Motion-triggered recording shall be at 25 fps.
7. Door alarms shall notify closest camera or set of cameras to record.
8. Privacy masks shall be coordinated with Owner.
9. Built-in analytics shall be coordinated with Owner.
10. Third party analytic applications shall be coordinated with Owner.
11. Remove non-factory paint after walls are finished.

3.05 CABLING

1. Cables shall be dressed, bundled, and neatly arranged.

END OF SECTION

Flood Control and Water Conservation District

Tenant Improvement Project

Project No. FM08947014286

MANDATORY PRE-BID CONFERENCE / JOB WALK

1995 Market St., Riverside, California 92501

March 25, 2026 - 10:00 a.m.

Sign-In sheet

Name	Signature	Organization/Company	Phone	Email
E22at Rowman	E22at Rowm	PCN2, INC	562-493-4124	estimating@PCN2.com
Sherif Gerges (SHERIF GERGES)		H2M CONSTRUCTION	6263438866	H2M CONSTRUCTION@YAHOO.COM
Eric Singley		Urban professional Builders	310 498 6348	Colton.khalil@urbanbuilders.co
Dean Song		ACI	714-715-1381	deans@angelesconstructor.com
Ben Sharp		Sharp Electrical Service	734-277 7991	Ben@sharpbuilds.com
Justin Greene		Sharp Electrical Services	9514810200	justin@sharpbuilds.com
Jason Gutknecht		Fair Price Carpet	(909)553-0200	jason@fairpricecarpet.com
Nicole Powell		Fair Price Carpets	951-8244083	Nicole@fairpricecarpets.com
Shanna Ellis 606		Sudweeks Construction	951-591-2879	shannaellissci@gmail.com
Paniko Iconida	Paniko Iconida	Iconida boilders	9515327717	Panikos@iconida builders.com
RIZALDY BALIVOT		COUNTY OF RIVERSIDE	951-232-9268	RBALIVOT@RIVCO.ORG

Flood Control and Water Conservation District

Tenant Improvement Project

Project No. FM08947014286

MANDATORY PRE-BID CONFERENCE / JOB WALK

1995 Market St., Riverside, California 92501

March 25, 2026 - 10:00 a.m.

Sign-In sheet

Name	Signature	Organization/Company	Phone	Email
STEVEN WILLIAMS		BLACKSTONE BUILDERS, Inc	(951)736-1600	steve@blackstonebuildersinc.com
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CHAD THOMPSON		T3 CONTRACTORS	951.977.8370	Chad@T3Contractors.com
Bobbi Dalia		Dalke & Sons	951-274-9800	david.cadalke@dalkesons.com
Kathy A. Morgan	Kathy A. Morgan	A-1 Crisp Imaging	909-390-4839	bids@aonedirepro.com

Flood Control and Water Conservation District

Tenant Improvement Project

Project No. FM08947014286

MANDATORY PRE-BID CONFERENCE / JOB WALK

1995 Market St., Riverside, California 92501

March 25, 2026 - 10:00 a.m.

Sign-In sheet

Name	Signature	Organization/Company	Phone	Email
Kathleen Berkley	K. Berkley	Weatherite	909-322-8510	Kathleen@weatherite.com
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Jaycob Rathbeaux		Performance	9097082438	Jaycobr@perf-elec.co
Omar Coronado		Royal Interior Wallsyst	760-508-5963	estimating@royalintwalls.co
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Samyoo Lee		MDRO Construction	714 615 2104	Samiroo@hotmail.com
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Kinan Kotrash 029		Horizons construction	714-728-4276	Kinan@horizonscci.com
Kinan Kotrash 029		Horizons construction	714-728-4276	bidding@horizonscci.com

ADDENDUM # 03

April 21, 2026

FOR:

Flood Control and Water Conservation District
Tenant Improvement Project

Project No.:
FM08947014286

LOCATED AT:
1995 Market Street,
Riverside, California, 92501

PREPARED BY:
COUNTY OF RIVERSIDE
FACILITIES MANAGEMENT
PROJECT MANAGEMENT OFFICE
3450 14th Street, Suite 200
RIVERSIDE, CA 92501

Addendum # 03 Content and Attachment List

DESCRIPTION

- Supplemental Project Requirements Narrative (01 page)
- RCIT S.O.W. Document (06 pages)

WESTGROUP DESIGNS
architecture | planning | interior design | branding

ADDENDUM # 03 – April 21, 2026
Flood Control and Water Conservation District
Tenant Improvement Project

Supplemental Project Requirements Narrative:

- The following is an update to the Bid Opening Schedule as follows;
  - Date: **Thursday, April 30, 2026**
  - Time: **2:00 p.m.**
  - Location: Clerk of the Board's Office at the CAC in Downtown Riverside

- Additional Scope of Work Clarifications as follows;
  - Audiovisual equipment is to be included in the base bid per the updated sheet T-0.1 responsibility matrix and the Bid RFI #16 response issued in addendum 02. Digital screens are to be contractor-furnished, contractor-installed (CFCI). (This supersedes the equipment schedule on A2-4.1 & 4.2).
  - Access Control is to be included as part of the base bid per Bid RFI #16 response. (This supersedes the responsibility matrix on T-0.1). Additional clarifications to RFI #16 response:
    - **REQUIRED VENDORS:**
      - **Data and Infrastructure Cabling, either:**
        1. Intelinet (Chad Hilzer – 951.526.6706)
        2. Marquez Cabling (Felix Rodriguez – 562.922.5201)
        3. Semetra (Mando Marshall – 951.220.7030)
      - **Card Access Security and System:**
        1. IE Alarm (Will Espinoza – 909.208.5681)
  - Cabling is to be included as part of the base bid per Bid RFI #16 response. (This supersedes the responsibility matrix on T-0.1).
  - Inquiry was made asking if "Pro-Watch" system will be approved for this project – Yes it is approved for this project, reference new RCIT S.O.W. Document included with this addendum 03 issuance for confirmation and additional requirements not listed here.

- END -

19900 MacArthur Blvd | Suite 1000 | Irvine, CA 92612 | **p** 949.250.0880 | **f** 949.250.0882 | **web** westgroupdesigns.com

RIVERSIDE COUNTY INFORMATION TECHNOLOGY
Detailed Scope of Work

Telecommunications Structured Cabling Project For
Flood Control – Remodel/Tenant Improvement Project
1995 Market St.
Riverside, Ca. 92501

Detailed Scope of Work

General Information: The general scope of this project includes the installation of telecommunications cabling infrastructure for single story building located at 19954 Market St. riverside, Ca. 92501. The project shall consist of the provision, installation, termination, testing and documentation of a completely functional Category 6 horizontal cabling system; It also includes provisions and installation of cabling for audio visual and wireless access points. This project will also include a fully functional access control system.

All work must adhere to all Riverside County Information Technology (RCIT) specifications and standards. It is the Contractor's responsibility to ensure all labor and materials needed to deliver a complete, fully functional system that complies with all applicable codes, industry standards and industry best practices are accounted for in the cost proposal.

Other trades will be working in the facility concurrently, and it is the Contractor's Superintendent/Foreman responsibility to coordinate work with other trades during the course of this project to prevent conflicts and to adhere to the construction schedule. All Contractor personnel performing work associated with this project shall wear shirts and/or badges clearly identifying their company.

The Contractor shall provide safety equipment to each employee to be used as appropriate or required for the work. (e.g., eye protection, sound suppressors, hard hats, gloves, respirators, etc., as required).

The project will in general include the following:

- Installation of (326) Standard Work Area Outlets, using 2 Category 6 cables at each location.
- Installation of (27) Audio Visual (TV) Work Area Outlets, using 2 Category 6 cables at each location.
- Installation of (14) Audio Visual (MB) Work Area Outlets, using 1 Category 6 cables at each location.
- Installation of (15) Audio Visual (AV) Work Area Outlets, using 2 Category 6 cables at each location.
- Installation of (14) Camera Work Area Outlets; using 1 Category 6 cable at each location.
- Installation of (12) Wireless Work Area Outlets; using 1 Category 6A cable at each location.
- Provision & installation of (15) 48-port, (2) 48-port QuickPort & (2) 24-port QuickPort patch panels.
- Provision of Various cat6 and cat6a Patch cords.
- Installation of 30 card Readers.

Scope of Work

1. Infrastructure Cabling:

1.1. Standard Work Area Outlets (WAO):

1.1.1. Provide and install (326) Standard WAO locations using two white Berk-Tek LANmark 1000 Category 6 cables at each location.

1.1.1.1. Standard WAO locations are identified on the drawings with location numbers (1A-001 thru 1A-194 & 1B-001 thru 1B-132), Telecom Rooms (TR1A & TR1B).

1.1.1.2. Location Numbers 1B-097, 1B-100 & 1B-103 shall have a 3rd cale (data ”C”) will terminate on a white jack.

1.1.1.3. Terminate the cables using Leviton eXtreme Category 6 inserts. The first data cable (data “A”) will terminate on an orange jack, and the second data cable (data “B”) will terminate on a green jack.

1.1.1.4. At the WAO, use white 2-port Leviton faceplates.

1.2. Standard WAO Patch Panels:

1.2.1. In the telecom room, all Standard WAO cables shall terminate on Leviton eXtreme Category 6, 110 style high density patch panels, wired in accordance with the T568B pin configuration standard.

1.2.1.1. Provide and install (9) Leviton 48-port Category 6 patch panels in TR1A.

1.2.1.2. Provide and install (6) Leviton 48-port Category 6 patch panels in TR1B.

1.2.1.3. Coordinate exact location in racks with RCIT Infrastructure Engineer.

1.3. Standard WAO Patch Cords

1.3.1. Deliver the following quantities of patch cords to the site:

1.3.1.1. Provide (250) 5' white High Flex category 6 patch cords.

1.3.1.2. Provide (76) 7’ white High Flex category 6 patch cords.

1.3.1.3. Provide (326) 10' white Slim Line category 6 patch cords.

1.4. Audio Visual Work Area Outlets:

1.4.1. Provide and install (27) TV WAO locations using two Ivory Berk-Tek LANmark 1000 Category 6 cables at each location.

1.4.1.1. TV WAO locations are identified on the drawings with location numbers (1A-TV01 thru 1A-TV08 & 1B-TV01 thru 1B-TV19), Telecom Rooms TR1A & TR1B.

1.4.1.2. Terminate the cables Both (A & B) cables using ivory Leviton Category 6 inserts.

1.4.1.3. At the WAO, use white 4-port Leviton faceplates, empty ports to be blanked as needed.

1.4.2. Provide and install (14) Media Board (MB) WAO locations using one Ivory Berk-Tek LANmark 1000 Category 6 cables at each location.

1.4.2.1. MB WAO locations are identified on the drawings with location numbers (1A-MB01 thru 1A-MB08 & 1B-MB01 thru 1B-MB06), Telecom Rooms TR1A & TR1B.

1.4.2.2. Terminate the cables using ivory Leviton Category 6 inserts.

1.4.2.3. At the WAO, use white a single port Leviton faceplate.

1.4.3. Provide and install (15) AV WAO locations using two Ivory Berk-Tek LANmark 1000 Category 6 cables at each location.

1.4.3.1. TV WAO locations are identified on the drawings with location numbers (1B-AV01 thru 1B-AV15), Telecom Room TR1B.

1.4.3.2. Terminate the cables Both (A & B) cables using ivory Leviton Category 6 inserts.

1.4.3.3. At the WAO, use white 2-port Leviton faceplates.

1.5. Team Room 232 and EOC Room 221

1.5.1. Reference drawing sheet T1-5 for specific cable plan.

1.6. Audio Visual WAO Patch Panel(s):

1.6.1. In the telecom room and AV Cabinet, all Audio Visual WAO cables shall terminate using Ivory Leviton Category 6 inserts, to be housed in a Leviton QuickPort patch panel.

1.6.1.1. Coordinate location in Telecom Room Racks with RCIT Infrastructure Engineer.

1.7. Audio Visual WAO Patch Cord(s):

1.7.1. Deliver the following quantities of patch cords to the site:

1.7.1.1. Provide (27) 5' yellow Slim Line category 6 patch cord.

1.7.1.2. Provide (56) 7' yellow High Flex category 6 patch cord.

1.7.1.3. Provide (15) 10' yellow Slim Line category 6 patch cord.

1.8. Wireless Work Area Outlet:

1.8.1. Provide and install (12) Wireless WAO locations using one white Berk-Tek Category 6A cable at each location.

1.8.1.1. Wireless WAO are identified on the drawings with location numbers (1A-701 thru 1A-706 and 1B-701 thru 1B-706).

1.8.1.2. Terminate the cable using blue Leviton eXtreme Cat 6A inserts.

1.8.1.3. At the WAO, use a white Leviton 2-port surface mount box with blank insert and a QuickPort in-ceiling bracket with clip placed above the ceiling.

1.9. Wireless WAO Patch Panel(s):

1.9.1. In the telecom room, all Wireless WAO cables shall terminate using blue Leviton eXtreme Cat 6A inserts, to be housed in a Leviton QuickPort patch panel.

1.9.1.1. Provide and install blank inserts to all unused ports of the QuickPort patch panels.

1.9.1.2. Coordinate location in Telecom Room Racks with RCIT Infrastructure Engineer.

1.10. Wireless Access Points (WAP):

1.10.1. Install (7) customer (RCIT) provided Wireless Access Points.

1.10.1.1. Each Access Point shall be patched using (1) 3’ blue Category 6A patch cord at the WAP location.

1.11. Wireless WAO Patch Cords:

1.11.1. Deliver the following quantities of patch cords to the site:

1.11.1.1. Provide (7) Leviton 3' blue eXtreme Category 6A patch cords.

1.11.1.2. Provide (7) Leviton 7’ blue eXtreme Category 6A patch cords.

1.12. Camera Work Area Outlet:

1.12.1. Provide and install (14) Camera WAO locations using one white Berk-Tek Category 6A cable at each location.

1.12.1.1. Wireless WAO are identified on the drawings with location numbers (1A-CAM-01 thru 1A-CAM-07 and 1B-CAM-01 thru 1B-CAM-06), Telecom Rooms TR1A & TR1B.

1.12.1.2. Terminate the cable using white Leviton eXtreme Cat 6 inserts.

1.12.1.3. At the WAO, use a white Leviton 2-port surface mount box with blank insert and a QuickPort in-ceiling bracket with clip placed above the ceiling.

1.13. Camera WAO Patch Panel(s):

1.13.1. In the telecom room, all Wireless WAO cables shall terminate using white Leviton eXtreme Cat 6 inserts, to be housed in a Leviton QuickPort patch panel.

1.13.1.1. Provide and install blank inserts to all unused ports of the QuickPort patch panels.

1.13.1.2. Coordinate location in Telecom Room Racks with RCIT Infrastructure Engineer.

1.14. Camera WAO Patch Cords:

1.14.1. Deliver the following quantities of patch cords to the site:
- 1.14.1.1. Provide (14) Leviton 7' white high flex Category 6 patch cords.
- 1.14.1.2. Provide (14) Leviton 10’ white slim line Category 6 patch cords.

2. Security:

2.1. Certifications:
- 2.1.1. Any contractor who provided a bid or a quote, install, wires, connects, or programs any Honeywell ProWatch equipment shall retain a current Honeywell Pro Watch Dealer and Technical Certification.

2.2. Installation:
- 2.2.1. Security vendor is responsible for all cabling of readers, panel connections, power supplies, lock down button, door release buttons, connection of existing and new door hardware.
- 2.2.2. Provide labor and equipment for any drilling, coring, or anything necessary to have access control electric hardware/system to properly operate.
- 2.2.3. Provide labor and materials as needed to work with door vendor/ general contractor to properly route the cables as needed to connect to any power supply and/or electric door hardware.
- 2.2.4. Provide labor and materials if existing doors are used to core a door, run cables down door frames, or anything possible to connect to electric hardware for access control to work properly.
- 2.2.5. Install readers at locations based on Floor Plans (CR-01 & CR-30), Telecom Rooms TR1A & TR1B
- 2.2.6. Provide all labor and materials needed for the reader and door hardware to operate properly.

2.3. Provide and install the following equipment:
- 2.3.1. Honeywell Equipment
  - 2.3.1.1. (3) PW5K2ENC1 (Honeywell) wall mounted enclosure.
  - 2.3.1.2. (3) PW7K1IC (Honeywell) Intelligent Controller.
  - 2.3.1.3. (3) PW7KPSU120 (Honeywell) Power Supply for PW5K2ENC1.
  - 2.3.1.4. (3) PW5K1DCC (Honeywell) PW-Series Daisy Chain Cable.
  - 2.3.1.5. (17) PW7K1R2B (Honeywell) PW-Series Dual Reader Module.
- 2.3.2. Readers
  - 2.3.2.1. (30) HID40NKS0001CF1M (HID) Multiprox Reader Multiclass (Square).
- 2.3.3. Power supply
  - 2.3.3.1. (5) ALTAL600ULACM (Altronix) 6amp 12/24VDC Power Supply.
  - 2.3.3.2. (5) LC2 (Altronix) 6ft Power Cord.
- 2.3.4. Honeywell Licenses
  - 2.3.4.1. (1) HONPWRDR32 (Honeywell) 32 Reader License Add-on
- 2.3.5. Batteries
  - 2.3.5.1. BAT712 (DCPart) 12V 7AH Battery
- 2.3.6. Cable
  - 2.3.6.1. GENWG31141112 (Genesis) 18/2 Plenum
  - 2.3.6.2. GENWG32161012 (Genesis) 18/6 Plenum

2.4. Testing:
- 2.4.1. Provide labor to test every access control door and device with RCIT project manager.
- 2.4.2. Coordinate with RCIT Project manager and provide 48 hours’ notice.

2.5. Label:

2.5.1. Provide labor and materials to label all readers, power supplies and panels.

2.5.2. Provide P-touch label all readers and panels with the number sequence that RCIT will provide.

2.6. Programming:

2.6.1. All programming of Pro Watch will be completed by others.

3. Miscellaneous:

3.1. Suspension Hardware

3.1.1. It is the responsibility of the awarded low-voltage cabling contractor to provide all the P-rod, stringers, J hooks and hardware necessary to properly support and route the communications cables in the ceiling and telecom room/spaces.

3.2. Firestopping

3.2.1. It is the responsibility of the awarded low-voltage cabling contractor to provide firestop to all penetrations on fire-rated walls and floors using a UL approved system.

3.2.2. Cable pathway while entering the Telecommunications Room/Spaces, provide and install EZ-Path 44 series pathway, as required.

3.3. Contingency:

3.3.1. Include a project contingency equivalent to 10% of your total estimated labor and material cost.

End of Scope of Work

ADDENDUM # 04

April 27, 2026

FOR:

Flood Control and Water Conservation District
Tenant Improvement Project

Project No.:
FM08947014286

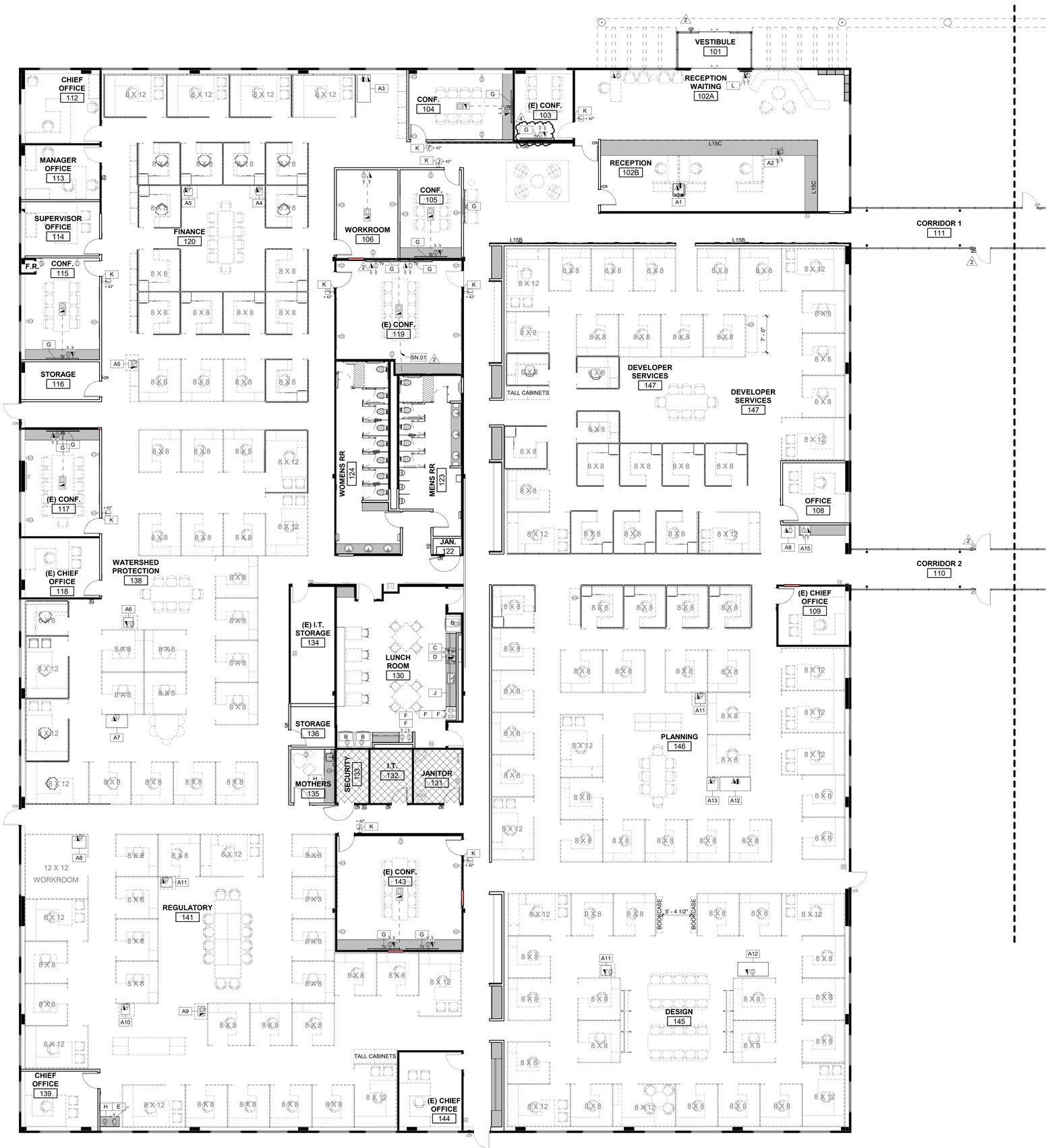
LOCATED AT:
1995 Market Street,
Riverside, California, 92501

PREPARED BY:
COUNTY OF RIVERSIDE
FACILITIES MANAGEMENT
PROJECT MANAGEMENT OFFICE
3450 14th Street, Suite 200
RIVERSIDE, CA 92501

Addendum # 04 Content and Attachment List

DESCRIPTION

- Bid Addendum #04 Revised Sheets Clouded as Delta 4 (09 sheets)
- Bid Addendum #04 Delta 4 - Sheet Narrative (02 pages)
- Updated Project Specification Sections:
  - 274116 – Audiovisual Systems (23 Pages)
- Copy of Plan Holders (01 pages)



LEGEND

- OUTLET FLOOR - DUPLEX
- OUTLET FLOOR - FEED
- OUTLET WALL - DUPLEX
- OUTLET WALL - FEED

GENERAL NOTES

1. EXISTING ITEMS, WHERE OCCUR, ARE IDENTIFIED WITH THE MARKER (E).
2. ALL EXPOSED OUTLETS TO MEET ALL ACCESSIBLE HEIGHT REQUIREMENTS (REFERENCE DIAGRAM BELOW), REMOVE NON-COMPLIANT J-BOX, PATCH AND REPAIR TO MATCH ADJACENT FINISH.
3. IF ANY OUTLETS CAN NOT BE INSTALLED AS NOTED OR AS SHOWN ON PLANS DUE TO CONFLICTING CONDITIONS, CLARIFY WITH WESTGROUP DESIGNS BEFORE PROCEEDING WITH OUTLETS IN QUESTION OR ADJACENT OUTLETS IN AREA.
4. ARCHITECTURAL DRAWINGS GOVERN OUTLET LOCATIONS. VERIFY WITH WESTGROUP DESIGNS ANY DISCREPANCIES WITH THE ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION.
5. WHEN OUTLETS/SWITCHES ARE GROUPED TOGETHER, GANG WITH COMMON FACEPLATE AS MUCH AS PRACTICABLE WITH INDIVIDUAL ADJACENT FACEPLATES WITHIN A STUDS WIDTH APART.
6. ALL EXISTING 'NOT USED' RECEPTACLES SHALL BE REMOVED, PATCHED AND REPAIRED TO MATCH ADJACENT SURFACE.
7. ALL ISOLATED GROUND RECEPTACLES SHALL BE GRAY WITH WHITE COVER PLATES.
8. ALL TELEPHONE AND DATA COVERPLATES SHALL BE SIMILAR IN COLOR AND APPEARANCE TO DUPLEX/SWITCH COVERPLATES.
9. MARK LOCATIONS OF ALL FLOOR MOUNTED RECEPTICALS AND OBTAIN OWNER APPROVAL PRIOR TO PROCEEDING WITH CORING.
10. TELEPHONE AND DATA CABLE TO BE PLENUM RATED, AND SUPPORTED INDEPENDENT FROM SUSPENDED CEILING.
11. WHERE ELECTRICAL WORK IN CONJUNCTION WITH MILLWORK REQUIRES CUT OUTS FOR SWITCHES, OUTLETS, OR SIMILAR INTERFACE, THE CONTRACTOR SHALL SCHEDULE A MEETING BETWEEN THE MILLWORK CONTRACTOR AND ELECTRICAL CONTRACTOR TO COORDINATE THE WORK.
12. SCHEDULE THE CORING OF ANY FLOOR OUTLETS WITH BUILDING OWNER TO PREVENT DISTURBANCE OR DAMAGE TO OTHER TENANT SPACES.
13. PRIOR TO PURCHASING ELECTRICAL AND DATA OUTLETS AND COVERPLATES, THE CONTRACTOR SUBMITTED ITEMS SHALL BE FIELD MATCHED AGAINST THE EXISTING ITEMS TO CONFIRM COLOR SELECTION.
14. ALL POWER RECEPTACLES WITHIN 6'-0" OF SINK SHALL BE GFCI.
15. TENANT/OWNER'S FURNITURE CONSULTANT TO PROVIDE ARITECT AND GENERAL CONTRACTOR WITH SCALED INSTALLATION DRAWING OF FURNITURE PLAN SHOWING REQUIRED CLEARANCES, PANEL/DESKING SYSTEMS, COMPONENT, AND CASEGOODS WITH WIRING AND POWER REQUIREMENTS, TYPE OF POWER IN-FEED AS OCCURS AND FIELD-VERIFIED LOCATIONS OF RECEPTACLES ON WALLS, FLOORS, AND CEILING WHICH SERVE FURNITURE COMPONENTS. DIMENSIONS TO BE PROVIDED FROM CONTROL POINTS. FURNITURE DEALER TO COORDINATE WITH ARCHITECT AND GC FOR LIGHTING, EQUIPMENT, MILLWORK, AND OTHER ARCHITECTURAL ELEMENTS WHICH MIGHT BE AFFECTED BY FURNITURE PLACEMENT. ARCHITECT IS NOT RESPONSIBLE FOR VERIFYING FURNITURE, FIXTURE, OR POWER LOCATIONS WHICH SERVE FURNITURE.

SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
SN.01	CONDUIT CONNECTION TO COMPUTER TOWER IN CABINET.

EQUIPMENT SCHEDULE

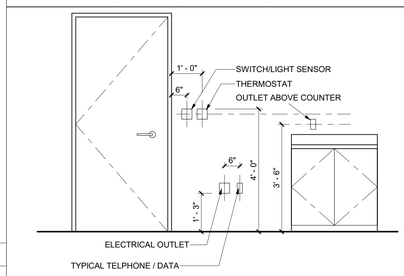
X EQUIPMENT TAG

TAG	DESCRIPTION	MFR	MODEL	FURNISHED	INSTALLED	NOTES
A1	COPY/PRINT	CANON	IMAGERUNNER ADVANCE DX 4735i	OWNER	OWNER	1
A2	LASERJET PRINTER	HP	P3005DN	OWNER	OWNER	1, 7
A3	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 8505i	OWNER	OWNER	1, 9
A4	COLOR LASERJET PRINTER	HP	M283FDW	OWNER	OWNER	
A5	COLOR LASERJET PRINTER	HP	M609	OWNER	OWNER	
A6	COLOR LASERJET PRINTER	HP	M750DN	OWNER	OWNER	
A7	COPY/PRINT	CANON	IMAGERUNNER ADVANCE C5850i	OWNER	OWNER	1, 9
A8	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 4525i	OWNER	OWNER	1
A9	LASERJET PRINTER	HP	P4014DN	OWNER	OWNER	
A10	LARGE FORMAT PRINTER	HP	PAGEWIDE XL 5200	OWNER	OWNER	1
A11	COLOR LASERJET PRINTER	HP	M751	OWNER	OWNER	
A12	LARGE FORMAT PRINTER	HP	DESIGNJET T1700	OWNER	OWNER	1
A13	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 4235i	OWNER	OWNER	1
A14	EPSON STYLUS PRO	EPSON	9880	OWNER	OWNER	1
A15	COLOR LASERJET PRINTER	HP	CP5225	OWNER	OWNER	
A17	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 4225i	OWNER	OWNER	1
A18	COLOR LASERJET PRINTER	HP	M750XH	OWNER	OWNER	1
A19	LARGE FORMAT PRINTER	OCE	COLORWAVE 3500	OWNER	OWNER	1
A20	LARGE FORMAT PRINTER	HP	DESIGNJET T1530	OWNER	OWNER	1
A21	COPY/PRINT	CANON	IMAGERUNNER ADVANCE C5870i	OWNER	OWNER	1
A22	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 8205	OWNER	OWNER	1, 9
A23	SCANNER	COLORTRAC	TBD BY OWNER	OWNER	OWNER	1
A24	IMAGEFORCE	CANON	C7165	OWNER	OWNER	1
B	LG 33"W Refrigerator - STANDARD DEPTH	LG	LF25H6200S	GC	GC	
C	VENT HOOD	SUMMIT	H36RSSADA	GC	GC	
D	ELECTRIC COOKTOP	LG BUILDER	LSCE365ST	GC	GC	
E	COFFEE MACHINE	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
F	MICROWAVE	LG PRO BUILDER	MSER2090S	GC	GC	8
G	DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	GC	2, 6, 10
G1	DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	GC	2, 6, 10
H	ADA UNDERCOUNTER REF.	SUMMIT	AL54	GC	GC	
J	OSMOSIS SYSTEM	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
K	SCHEDULING TABLET	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
L	LOBBY DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	OWNER	2, 6

EQUIPMENT NOTES

1. COORDINATE EQUIPMENT SIZE WITH OWNER.
2. PROVIDE BACKING FOR WALL MOUNTED EQUIPMENT PER DETAIL 11/A9-2.1
3. TYP. AT ALL OFFICES AND WORKSTATIONS.
4. PROVIDE BUILDING STANDARD CARD READERS AT THESE LOCATIONS.
5. PROVIDE RECESSED CLOCK OUTLET FOR ALL WALL MOUNTED EQUIPMENT REQUIRING POWER, LEGRAND EVOLUTION SERIES WALL BOX OR SIMILAR.
6. T.V. WALL BOX: CHIEF PAC 525F RECESSED BOX OR EQUAL.
7. REFER TO ELEVATIONS FOR PRINTER LOCATION.
8. MICROWAVE TRIM KIT: MK2030NST; ONLY APPLICABLE FOR BUILT-IN.
9. SPECIALTY POWER REQUIRED. REFER ELECTRICAL PLANS FOR MORE DETAILS.
10. FOR EQUIPMENT SIZE, REFER TO TECHNOLOGY DRAWINGS AND SPECIFICATIONS.

TYP POWER AND DATA LOCATIONS



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www.westgroupdesigns.com

OFFICE RENOVATION
RIVERSIDE COUNTY FLOOD CONTROL DISTRICT
1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26
BID ADDENDUM #04	04/27/26

REVISIONS:

2	BID ADDENDUM #02	04/17/2026
4	BID ADDENDUM #04	04/27/2026

REGISTRATION/SIGNATURE:

LICENSED ARCHITECT — JOSHUA JAMES GRIFFITH — C32284 — 04/30/2027 — Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

EQUIPMENT PLAN (BLDG 1A)

SHEET NUMBER:

A2-4.1

WD PROJ. #	DRAWN BY:	CHECKED	DATE
25811	IG/AD/TT	JF	12/22/25

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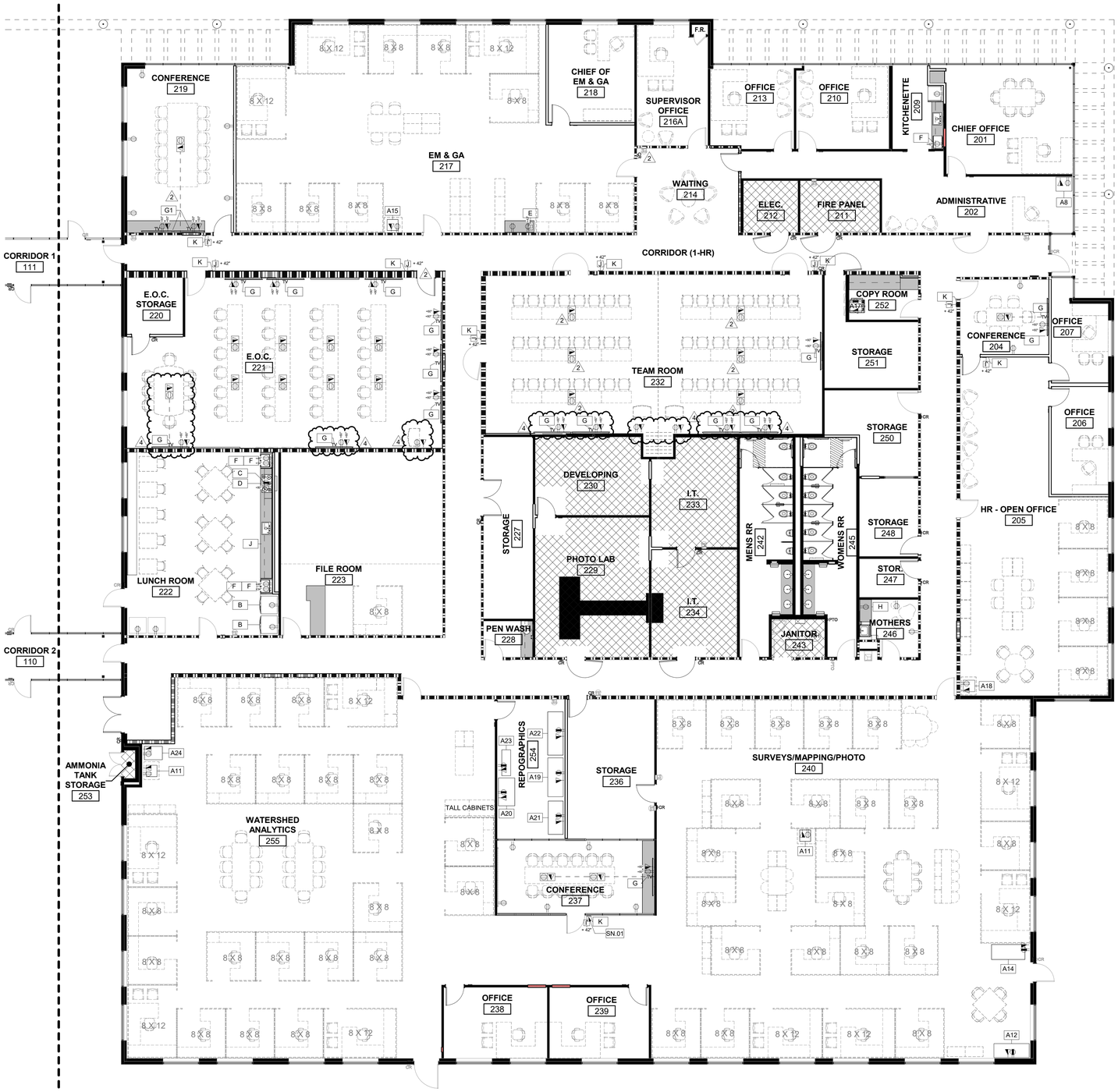
1/8" = 1'

0 8 16 24

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



EQUIPMENT PLAN - BUILDING 1 | 1B | 1/8" = 1'-0"

LEGEND

- OUTLET FLOOR - DUPLEX
- OUTLET FLOOR - FEED
- OUTLET WALL - DUPLEX
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SHEET KEYNOTES

SN.##

SN#	DESCRIPTION
SN.01	CONCEAL WIRING FOR EQUIPMENT IN MULLION.

EQUIPMENT SCHEDULE

X EQUIPMENT TAG

TAG	DESCRIPTION	MFR	MODEL	FURNISHED	INSTALLED	NOTES
A1	COPY/PRINT	CANON	IMAGERUNNER ADVANCE DX 4735i	OWNER	OWNER	1
A2	LASERJET PRINTER	HP	P3005DN	OWNER	OWNER	1, 7
A3	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 8505i	OWNER	OWNER	1, 9
A4	COLOR LASERJET PRINTER	HP	M283FDW	OWNER	OWNER	
A5	COLOR LASERJET PRINTER	HP	M609	OWNER	OWNER	
A6	COLOR LASERJET PRINTER	HP	M750DN	OWNER	OWNER	
A7	COPY/PRINT	CANON	IMAGERUNNER ADVANCE C5850i	OWNER	OWNER	1, 9
A8	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 4525i	OWNER	OWNER	1
A9	LASERJET PRINTER	HP	P4014DN	OWNER	OWNER	
A10	LARGE FORMAT PRINTER	HP	PAGEWIDE XL 5200	OWNER	OWNER	1
A11	COLOR LASERJET PRINTER	HP	M751	OWNER	OWNER	
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A22	COPY/PRINT	CANON	IMAGERUNNER ADVANCE 8205	OWNER	OWNER	1, 9
A23	SCANNER	COLORTRAC	TBD BY OWNER	OWNER	OWNER	1
A24	IMAGEFORCE	CANON	C7165	OWNER	OWNER	1
B	LG 33"W Refrigerator - STANDARD DEPTH	LG	LF25H6200S	GC	GC	
C	VENT HOOD	SUMMIT	H36RSSADA	GC	GC	
D	ELECTRIC COOKTOP	LG BUILDER	LSCE365ST	GC	GC	
E	COFFEE MACHINE	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
F	MICROWAVE	LG PRO BUILDER	MSER2090S	GC	GC	8
G	DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	GC	2, 6, 10
G1	DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	GC	2, 6, 10
H	4DR UNDERCOUNTER REF.	SUMMIT	AL54	GC	GC	
J	OSMOSIS SYSTEM	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
K	SCHEDULING TABLET	TBD By Owner	TBD BY OWNER	OWNER	OWNER	
L	LOBBY DIGITAL SCREEN	TBD By Owner	TBD BY OWNER	OWNER	OWNER	2, 6

EQUIPMENT NOTES

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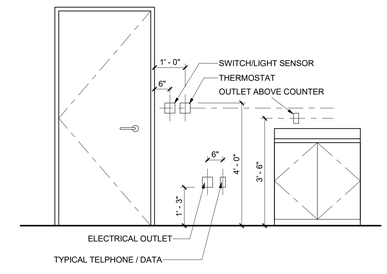

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OFFICE RENOVATION
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1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26
BID ADDENDUM #04	04/27/26

REVISIONS:

2	BID ADDENDUM #02	04/17/2026
4	BID ADDENDUM #04	04/27/2026

REGISTRATION/SIGNATURE:

JOSHUA JAMES FORSYTH — LICENSED ARCHITECT — C32264 — Exp. 08/31/2027 Renewal Date — STATE OF CALIFORNIA

SHEET TITLE:

EQUIPMENT PLAN (BLDG 1)

SHEET NUMBER:

A2-4.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
25811	IG/AD/TT	JF	12/22/25

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1/8" = 1'

0 8 16 24

ABBREVIATIONS

A	AMPERE
ACP	ACCESS CONTROL SYSTEM
ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
BKBD	BACKBOARD
BLDG	BUILDING
BKR	BREAKER
C	CONDUIT
CACE	COHERENT ANALYTIC COMPUTING ENVIRONMENT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CFSD	COMBINATION FIRE SMOKE DAMPER
CO	CONDUIT ONLY
CU	COPPER
CL	CENTERLINE
CTTA	CERTIFIED TEMPEST TECHNICAL AUTHORITY
DN	DOWN
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRICAL METALLIC TUBING
EXIST, (E)	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FF	FINISHED FLOOR
FFE	FURNITURE, FIXTURES, & EQUIPMENT
FG	FINISHED GRADE
FLA	FULL LOAD CURRENT
GEC	GROUNDING ELECTRODE CONDUCTOR
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
IDS	INTRUSION DETECTION SYSTEM
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED/INSULATED GROUND
J-BOX	JUNCTION BOX
JWICS	JOINT WORLDWIDE INTELLIGENCE COMMUNICATION SYSTEM
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATT
KV	KILO VOLT
KVA	KILO VOLT-AMPERE
LV	LOW VOLTAGE
MFR	MANUFACTURER
MAX	MAXIMUM
MIN	MINIMUM
MH	MANHOLE / METAL HALIDE
MPOE	MAIN POINT-OF-ENTRY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NEW (N)	NEW, TO BE FURNISHED AND INSTALLED BY CONTRACTOR
NIC	NOT IN CONTRACT
NO	NUMBER, NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PB	PULL BOX
PNL	PANEL
POC	POINT OF CONNECTION
PWR	POWER
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
RMC	RIGID METALLIC CONDUIT
RM	ROOM
RNC	RIGID NONMETALLIC CONDUIT
SHT	SHEET
SPEC	SPECIFICATIONS
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TEL	TELEPHONE
TERM	TERMINAL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTAGE
VA	VOLT-AMPERE
W	WATT
WP	WEATHERPROOF
WW	WIREWAY
4W	FOUR-WIRE
3W	THREE-WIRE
5S	JUNCTION BOX (4 11/16" SQUARED X2 1/8" DEEP)
Ø	DIAMETER, PHASE
#	NUMBER
°C	DEGREE CELSIUS
(E)	EXISTING DEVICE TO REMAIN
(R)	REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT AND WIRE
(RL)	REMOVE EXISTING DEVICE AND RELOCATE AS SHOWN ON PLAN
(NL)	NEW LOCATION OF RELOCATED DEVICE

TECHNOLOGY NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO ALL APPLICABLE LOCAL CODES AND REGULATIONS.
2. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
4. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELL/STROBES, FIRE ALARM PULL STATIONS. RECEPTACLES ETC. WITH CABINETS, FURNITURE, EQUIPMENT ETC., TO AVOID CONFLICT.
5. FURNISH APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
6. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
7. PROVIDE PULL BOXES EVERY 180 DEGREE OF BENDS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULL BOX SHALL COMPLY WITH BISCI REQUIREMENTS.
   A. A THIRD 90 DEGREE BEND BETWEEN PULL POINTS OR BOXES WILL BE ALLOWED IF CONDUIT CAPACITY FOR FINAL RUN IS DERATED BY 15%.
   B. PROVIDE A LABEL INDICATING CONDUIT DERATING.
      a. EXCEPTIONS TO NOT ALLOW CONDUIT DERATING:
         - TOTAL RUN IS LESS THAN 10M (33FT)
         1) IF CONDUIT CAPACITY FOR FINAL RUN IS DERATED BY 15%, AND CONDUIT TRADE SIZED IS INCREASED
         2) ONE BEND IS LOCATED WITHIN 300mm (12in) OF CABLE FEED END.
8. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK-TO-BACK.
9. ALL TECHNOLOGY CABLING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM. TECHNOLOGY CABLING SHALL BE IN SEPARATE RACEWAYS FROM POWER OR LIGHTING.
10. ALL MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION.
11. ANY ERRORS, OMISSIONS, OR DESIGN DISCREPANCIES ON PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR CORRECTION PRIOR TO THE CONSTRUCTION AND PREPARATION OF SUBMITTAL PACKAGES.
12. WIRING METHOD SHALL BE EMT ABOVE GROUND AND MOUNTED IN CONCEALED SPACES AND SCHEDULE-40 PVC FOR UNDERGROUND INSTALLATION. USE RIGID WHEN ENCASED IN CONCRETE OR SUSCEPTIBLE TO DAMAGE.
13. ALL TECHNOLOGY EQUIPMENT SHOWN ON PLANS SHALL BE DEEMED NEW. CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW EQUIPMENT SHOWN ON PLANS U.O.N.
14. PENETRATIONS THROUGH FIRE-RATED BARRIERS SHALL BE FIRESTOPPED.
15. LOCATE TECHNOLOGY PATHWAYS AWAY FROM SOURCES OF EMI, INCLUDING BUT NOT LIMITED TO:
    A. ELECTRICAL POWER CABLING AND TRANSFORMERS
    B. RF SOURCES
    C. LARGE MOTORS AND GENERATORS
    D. INDUCTION HEATERS
    E. PHOTOCOPY EQUIPMENT
21. DAISY-CHAINING OF DEVICE BACKBOXES ARE NOT ALLOWED, UNLESS SPECIFICALLY NOTED OR DRAWN ON FLOOR PLANS OR DETAILS.
22. CONDUIT BENDS SHALL BE MINIMUM (10) TIMES THE INSIDE DIAMETER OF CONDUIT.
23. CONDUIT BENDS FOR FIBER CABLING SHALL BE MINIMUM (20) TIMES THE OUTSIDE DIAMETER OF SPECIFIED CABLING.

DEMOLITION NOTES

1. THE DEMOLITION NOTE REFERENCE PERTAIN TO ALL RELATED SHEETS WHERE EXISTING TECHNOLOGY WORK IS INDICATED.
2. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND MAKE THEMSELVES COMPLETELY FAMILIAR WITH THE EXISTING INSTALLED CONDITIONS.
3. ALL EQUIPMENT OR WORK REQUIRED TO CARRY OUT THE DEMOLITION SCOPE OF WORK IS CONSIDERED TO BE PART OF THE CONTRACTOR SCOPE OF WORK. NO EXTRAS WILL BE CONSIDERED TO PERFORM THE REQUIRED WORK.
4. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE FACILITY DIRECTOR PRIOR TO THE SCHEDULING OF ANY POWER OUTAGE. SUCH PERMISSION MUST BE OBTAINED IN WRITING AND BE GRANTED AT LEAST 7 DAYS PRIOR TO ANY SCHEDULE SHUT DOWN. THE SHUT DOWN SHALL NOT EXCEED A DURATION OF 4 HOURS.
5. THE CONTRACTOR SHALL NOT STORE ON SITE ANY ITEMS THAT WERE DEMOLISHED FOR ANY EXTENDED PERIOD OF TIME, WITHOUT THE WRITTEN PERMISSION OF THE FACILITY DIRECTOR.
6. ALL TECHNOLOGY ITEMS DESIGNATED AS EXISTING TO REMAIN SHALL AS PART OF THIS SCOPE OF WORK BE CLEANED AND TESTED, TO INSURE PROPER OPERATION. ANY ITEMS THAT FAIL TO PASS THE TEST SHALL BE BROUGHT TO THE ATTENTION OF THE FIELD INSPECTOR AND THE ENGINEER OF RECORD FOR RESOLUTION.
7. THE CONTRACTOR SHALL REMOVE ALL CONDUITS, WIRES AND OTHER APPARATUS DESIGNATED AS EXISTING TO BE REMOVED. DEMOLITION ITEMS, IF NOT REQUIRED TO BE SALVAGED BY OWNER, BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER.
8. THE CONTRACTOR SHALL REMOVE ALL CONDUITS SERVING DEVICES WHICH ARE DESIGNATED AS EXISTING TO BE REMOVED, BACK TO THE SOURCE WHEN POSSIBLE. IF THE NATURE OF THE EXISTING INSTALLATION WILL NOT ALLOW REMOVAL THE CONTRACTOR SHALL REMOVE ALL EXPOSED CONDUIT AND ABANDON THE REMAINDER AFTER REMOVING ALL CONDUCTORS.
9. DEMOLITION AND/OR REMOVAL OF ELECTRICAL EQUIPMENT IN AREAS TO BE REMODELED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. WHERE EXISTING CONDUIT AND CONDUCTORS ARE TO BE REMOVED AND CONDUIT IS INSTALLED IN GROUND OR EMBEDDED IN CONCRETE, REMOVE WIRE AND CUT CONDUIT TO BELOW FLOOR, PLUG CONDUIT, PATCH FLOOR AND ABANDON CONDUIT.
11. WHERE TECHNOLOGY DEVICES ARE TO BE REMOVED, REMOVE ALL CONDUIT AND CONDUCTORS BACK TO SOURCE, TERMINAL CABINETS, AND RACKS. PROVIDE BLANK COVER PLATE FOR ABANDONED JUNCTION BOXES.
12. REMOVE ALL CONTROL PANELS, EQUIPMENT RACKS, PULL-BOXES, TERMINAL CABINETS, ETC. FOR SYSTEMS TO BE DEMOLISHED EXCEPT WHERE ANY OF THE EXISTING DEVICES, SYSTEMS, CONSOLES, ETC. ARE TO BE REUSED FOR UPGRADE.
13. PROVIDE BLANK COVER PLATE FOR ALL EMPTY OUTLET BOXES WHERE DEVICES AND/OR CONDUCTORS HAVE BEEN REMOVED AS PART OF THIS CONTRACT.
14. AFTER REMOVAL OF WIREMOLD AND ASSOCIATED FITTINGS, PATCH, REPAIR AND PAINT AFFECTED SURFACES TO MATCH EXISTING.
15. EXISTING CONDUIT CAN BE REUSED PROVIDING IT IS CHECKED FOR CONTINUITY OF GROUND, BLOWN FREE OF DEBRIS, AND DOES NOT INTERFERE WITH NEW CONSTRUCTION.
16. REMOVALS AND REPAIRS TO EXISTING ELECTRICAL WORK REQUIRED TO AVOID CONFLICTS WITH NEW CONSTRUCTION TO MEET MINIMUM CODE REQUIREMENTS.
17. A FIELD SURVEY VERIFICATION IS MANDATORY IN ORDER TO SUBMIT AN ELECTRICAL BID, FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK OF THIS CONTRACT.

LEGEND AND SYMBOLS

SYMBOL	AUDIOVISUAL	
(A) XXX	WALL OUTLET	"XXX" DENOTES DEVICE TYPE AV = AUDIOVISUAL INPUTS CAM = CONFERENCING CAMERA CP = CONTROL PANEL DS = DIGITAL SIGNAGE HDMI = HDMI INPUT PLATE PS = PARTITION SENSOR SB = SOUND BAR RR = RACK ROUGH-IN SCH = SCHEDULER VD = VISUAL DISPLAY
(A)	CEILING LOUDSPEAKER	
(A)M	CEILING MICROPHONE	

SYMBOL	SECURITY	
(S) XXX	WALL OUTLET, RECESSED	"XXX" DENOTES DEVICE TYPE CR = CARD READER CRM = CARD READYER MULLION DC = DOOR CONTACT IC = INTERCOM NO VIDEO INT = INTERCOM K = KNOX BOX TAMPER MONITOR KP = KEYPAD LA = LOCAL ALARM MD = MOTION DETECTOR MS = MASTER STATION PTZ = PAN-TILT-ZOOM RC = RELAY CONNECTION RX = REQUEST-TO-EXIT SNODE = SECURITY NOTE STR = STROBE SWAP = SECURITY WIRELESS GATEWAY T = TEMPERATURE SENSOR VD = VIDEO VIEWING STATION VI = INTERCOM W/ VIDEO WCR = WIRELESS CARD READER (REFER TO WR = WIRELESS RECEIVER WT = WIRELESS TRANSMITTER DIVISION 8)
(S) XXX	DOOR DEVICE	
(S) XXX	CEILING OUTLET, RECESSED	
XXX	WALL MOUNT FIXED VIEW CAMERA	
XXX	WALL MOUNT 180/270 CAMERA	
XXX	CEILING MOUNT 360 CAMERA	

NOTE TO CONTRACTOR

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

TASK RESPONSIBILITY MATRIX

TASK	RESPONSIBLE PARTY
TECHNOLOGY CONDUIT, BACKBOXES, SLEEVES	CFCI
TECHNOLOGY CONDUIT ID LABELING AND PULLSTRINGS	CFCI
TECHNOLOGY EQUIPMENT STRUCTURAL SUPPORTS AND BACKING	CFCI
TECHNOLOGY EQUIPMENT CEILING PREP (ACCESS POINTS, CAMERAS, INTRUSION)	CFCI
POWER TO TECHNOLOGY RACKS	CFCI
CABLE CUBBIES	FFE
TECHNOLOGY EQUIPMENT RACKS, PATCH PANELS, CABLE MANAGEMENT, RUNWAY	CFCI
TECHNOLOGY FACEPLATES, DIVIDERS, CABLING, AND TERMINATION	CFCI
AUDIOVISUAL EQUIPMENT AND CABLING	CFCI
NETWORK EQUIP (SWITCHES, SERVERS, AND STORAGE)	OFOI
NETWORK EQUIP (RACK MOUNT UPS IN IDF'S)	CFCI
MISC. IT EQUIPMENT (TELEPHONES, COMPUTERS, MONITORS, WIRELESS AP'S)	OFOI
NETWORK CABLING	OFOI
SECURITY EQUIPMENT AND CABLING	CFCI
SECURITY NETWORK CABLING	CFCI (DIV 27)
ACCESS CONTROL DEVICES AND CABLING	OFOI
VIDEO SURVEILLANCE DEVICES	CFCI

OFCI = OWNER FURNISH CONTRACTOR INSTALLED
OFOI = OWNER FURNISH OWNER INSTALLED
CFCI = CONTRACTOR FURNISHED CONTRACTOR INSTALLED

Sheet List Table

SHEET NUMBER	SHEET TITLE
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T-1.0	TECHNOLOGY DEMOLITION OVERALL PLAN
T-2.1	TECHNOLOGY DEMOLITION PLAN - BUILDING 1A
T-2.2	TECHNOLOGY DEMOLITION PLAN - BUILDING 1B
T-4.1	TECHNOLGY REMODEL OVERALL PLAN
T-4.2	TECHNOLOGY REMODEL PLAN - BUILDING 1A
T-4.3	TECHNOLOGY REMODEL PLAN - BUILDING 1B
T-5.1	TECHNOLOGY DETAILS
T-5.2	AV SINGLE LINES
T-5.3	AV SINGLE LINES

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COUNTY OF RIVERSIDE
FLOOD CONTROL

1995 MARKET STREET
RIVERSIDE, CA 92501

ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26
BID ADDENDUM #04	04/27/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/26
2	BID ADDENDUM #02	04/17/26
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REGISTERED PROFESSIONAL ENGINEER
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SIGNED:04/27/26
ELECTRICAL
STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:

TECHNOLOGY LEGENDS & NOTES

SHEET NUMBER:

T-0.1

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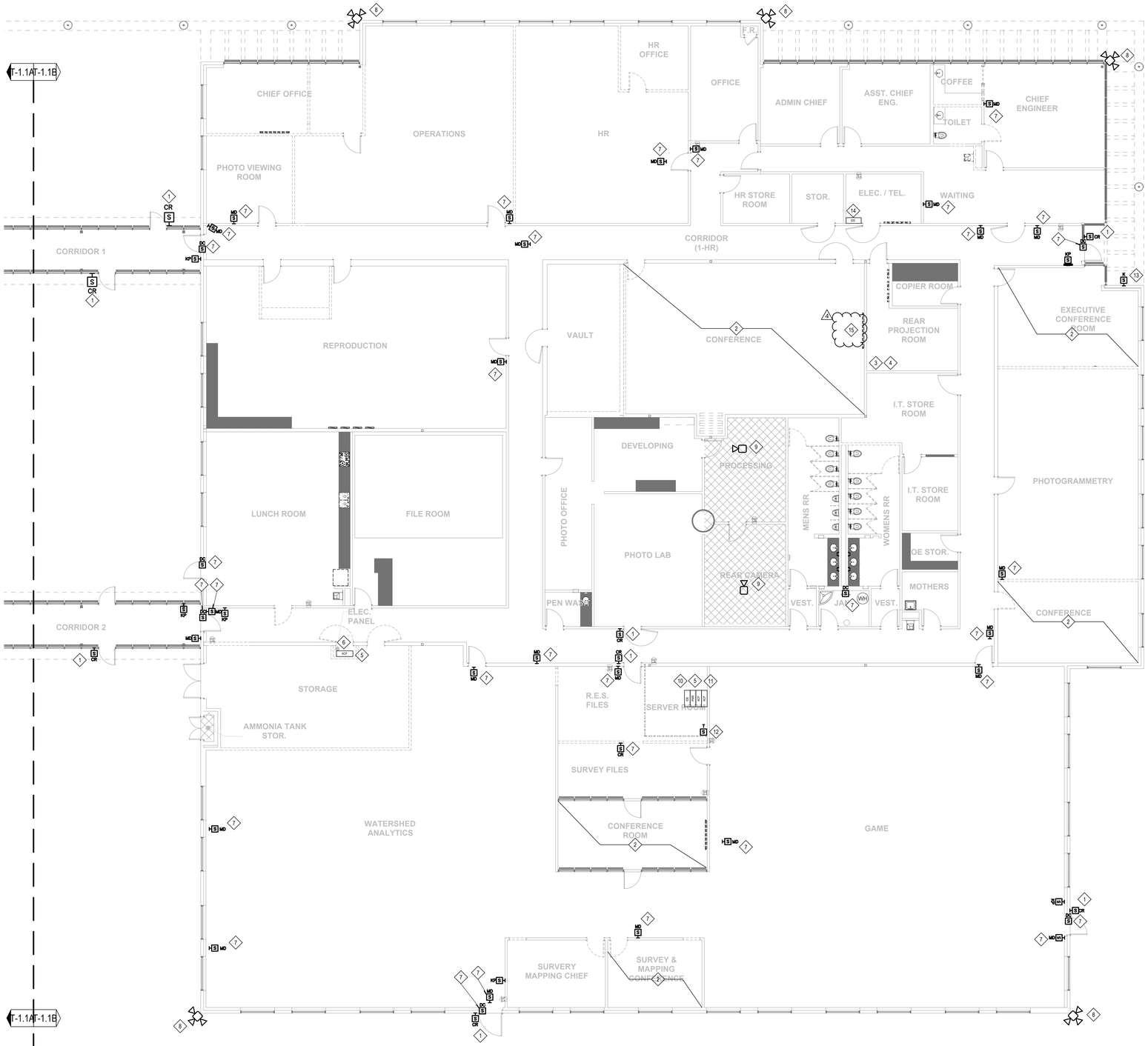

GENERAL NOTES

1. REMOVE DEVICES AND CABLING TO SOURCE AS INDICATED ON DEMO PLANS OR NOTES. COORDINATE WITH DEMOLITION SCOPE OF WORK.
2. PROTECT IN PLACE EXISTING SOUND MASKING SYSTEM AND CABLING. CONTRACTOR SHALL PROVIDE LOCATIONS IN AS-BUILT DRAWINGS.
3. PATCH, REPAIR, PRIME, AND PAINT EXISTING WALLS. MATCH TO EXISTING FINISHES.

DEMOLITION NOTES

1. REPLACE EXISTING CARD READER. PROVIDE NEW CABLING.
2. REMOVE EXISTING CABLING AND CONDUIT TO SOURCE. REMOVE EXISTING CONFERENCING EQUIPMENT.
3. APPROXIMATE LOCATION OF EXISTING NVR AND SECURITY MONITORING STATION. RELOCATE NVR INTO IDF. RE-MOUNT STATION TO WALL. PROVIDE NEW FURNITURE FOR EXISTING KEYBOARD AND MOUSE. PROVIDE PC IF NEEDED FOR STATION TO FUNCTION. COORDINATE WITH OWNER'S IT STAFF.
4. APPROXIMATE LOCATION OF EXISTING AV CABINET. RELOCATE TO NEW LOCATION. REMOVE EXISTING EQUIPMENT.
5. REMOVE EXISTING ACCESS CONTROL PANELS AND POWER SUPPLIES.
6. PROTECT EXISTING ANALOG CONNECTIONS UTILIZED FOR SECURITY. RELOCATE TO NEW EOC ROOM 221. COORDINATE TRANSITION TO CELLULAR CONNECTIVITY WITH OWNER'S IT STAFF.
7. DEMOLISH DEVICE AND CABLING BACK TO SOURCE.
8. DEMOLISH EXISTING CAMERA AND CABLING. REUSE EXISTING BUILDING PENETRATION.
9. DEMOLISH EXISTING CAMERA AND CABLING.
10. DEMOLISH EXISTING INTRUSION PANEL. COORDINATE WITH OWNER.
11. RELOCATE EXISTING ANALOG LINE TO NEW SERVER ROOM 223.
12. DEMOLISH EXISTING TEMPERATURE SENSOR.
13. DEMOLISH EXISTING CABLING. PROVIDE NEW CABLE.
14. EXISTING IDS ZONE EXPANDER. REMOVE EXISTING CABLE. PROVIDE NEW CABLE TO NEW IDF IN ROOM 226.
15. LOCATION OF EXISTING DISPLAY. PROVIDE DEDUCTIVE ALTERNATE PRICING TO REUSE.

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COUNTY OF RIVERSIDE
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SIGNED 04/27/26
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STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:

TECHNOLOGY DEMOLITION PLAN - BUILDING 1B

SHEET NUMBER:

T-2.2

WD PROJ. #	DRAWN BY:	CHECKED	DATE
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TECHNOLOGY DEMOLITION PLAN - BUILDING 1B | SCALE: 1/8" = 1'-0" | 1

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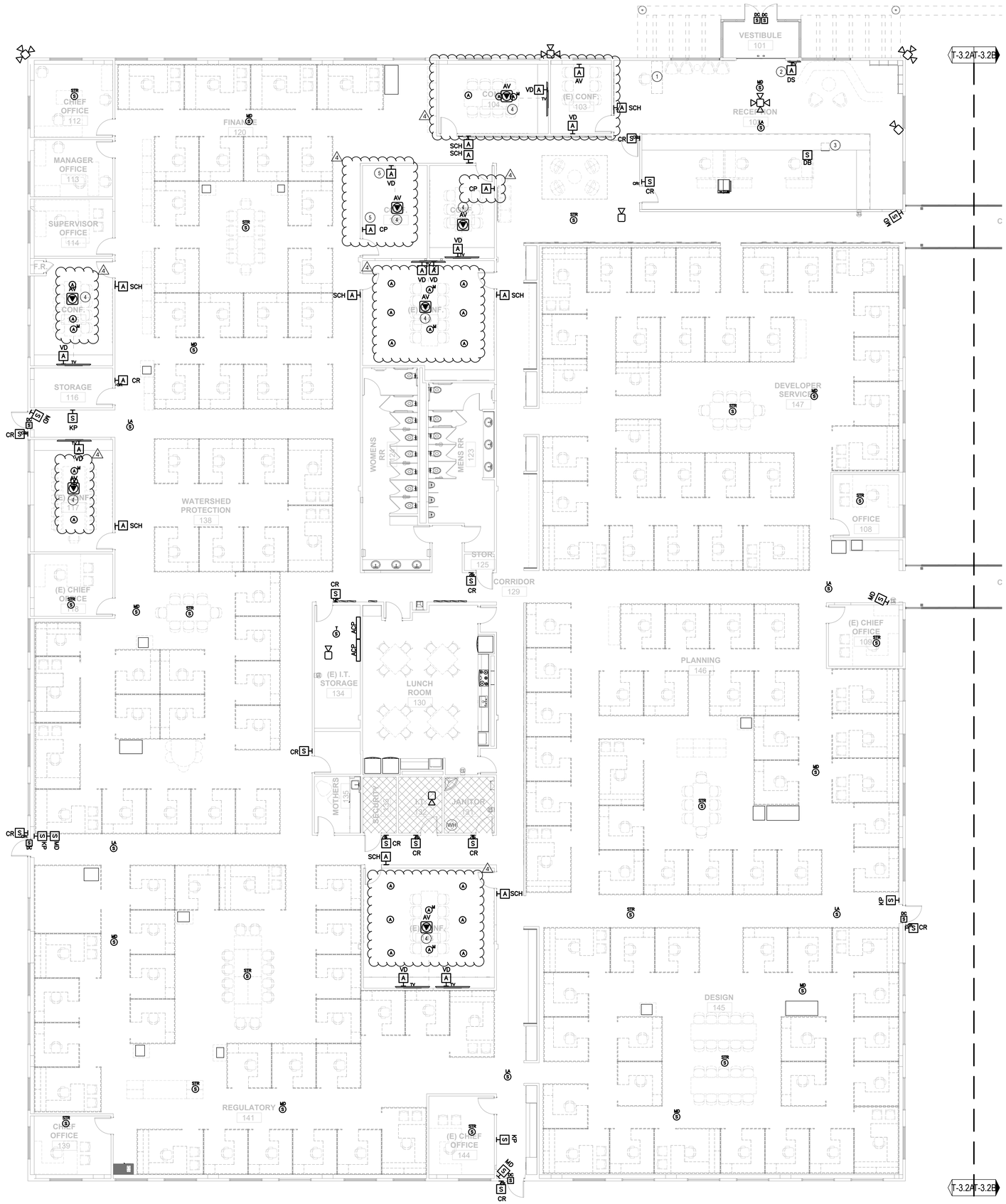

GENERAL NOTES

1. DOOR CONTACTS SHALL BE DPDT. EXTERIOR DOORS SHALL ROUTE TO BOTH INTRUSION DETECTION AND ACCESS CONTROL SYSTEM.

CONSTRUCTION NOTES

1. SECURITY WORKSTATION
2. PORTRAIT ORIENTATION
3. BADGE PRINTER LOCATION
4. PROVIDE AV RACK (CABLE CUBBY 1252 MS LID TRAY KIT) UNDER FURNITURE. FIELD COORDINATE FINAL LOCATION
5. ROUGH-IN ONLY

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COUNTY OF RIVERSIDE
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1995 MARKET STREET
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REGISTERED PROFESSIONAL ENGINEER — BRANDON K. KEMPER — 22839 — SIGNED 04/27/26 — ELECTRICAL — STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:

TECHNOLOGY REMODEL PLAN - BUILDING 1A

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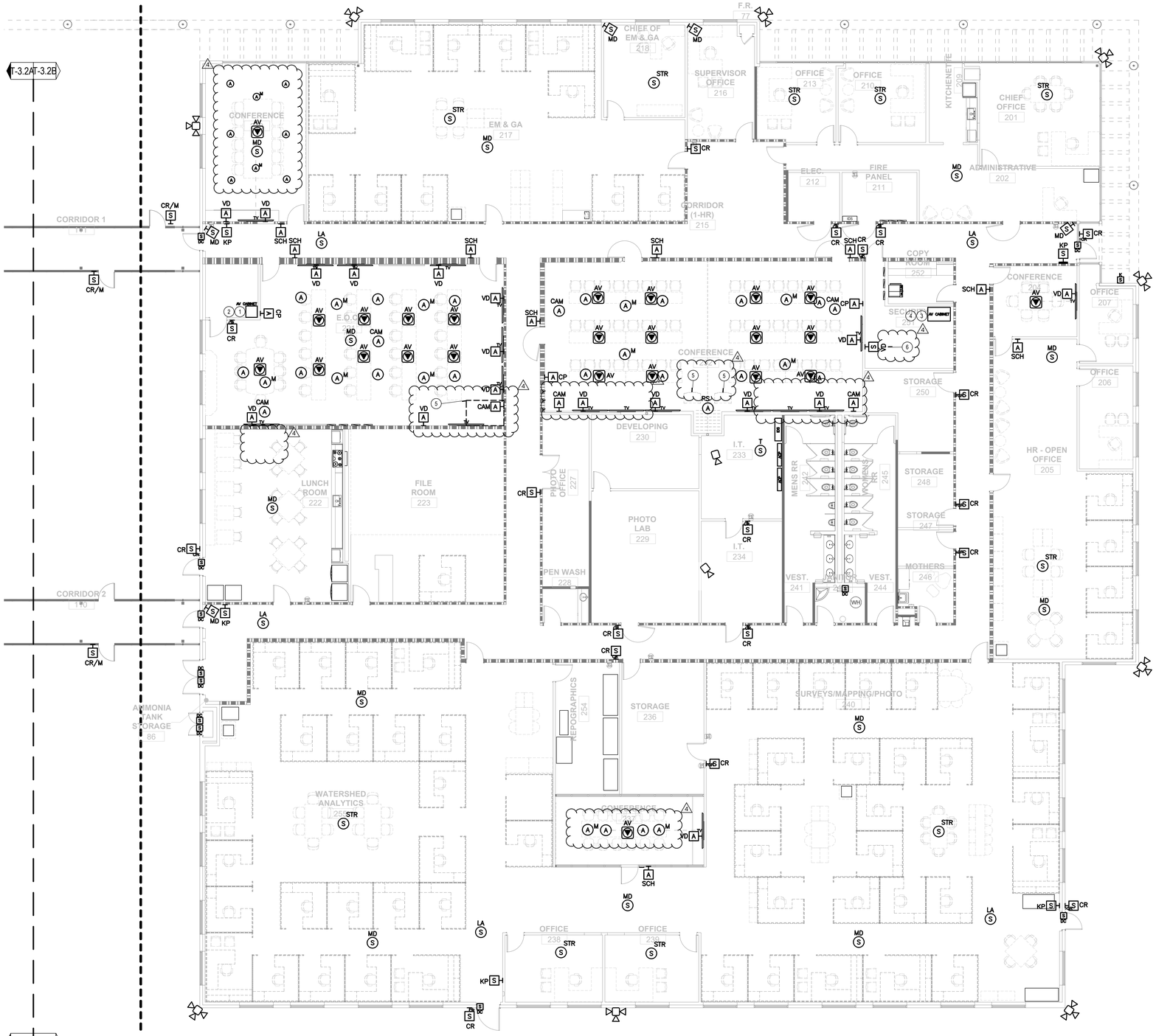

GENERAL NOTES

1. DOOR CONTACTS SHALL BE DPDT. EXTERIOR DOORS SHALL ROUTE TO BOTH INTRUSION DETECTION AND ACCESS CONTROL SYSTEM.

CONSTRUCTION NOTES

1. RACK SHALL BE USED FOR MOUNTING EQUIPMENT FOR ROOMS 221
2. PROVIDE (2) 5"SQx2-7/8" D BACKBOX AT 18" AFF WITH (2) 2" CONDUITS TO ACCESSIBLE CEILING FOR AV CABLING
3. RACK SHALL BE USED FOR MOUNTING EQUIPMENT FOR ROOMS 232
4. PROVIDE (2) 5"SQx2-7/8" D BACKBOX AT 18" AFF WITH (2) 2" CONDUITS TO ACCESSIBLE CEILING FOR AV CABLING
5. LECTERN/PODIUM
6. DISPLAY FOR SECONDARY MONITORING OF SECURITY SYSTEM ONLY.

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COUNTY OF RIVERSIDE
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REGISTERED PROFESSIONAL ENGINEER — BRANDON K. CHRISTIAN — ELECTRICAL — 22839 — SIGNED:04/27/26 — STATE OF CALIFORNIA

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TECHNOLOGY REMODEL PLAN - BUILDING 1B

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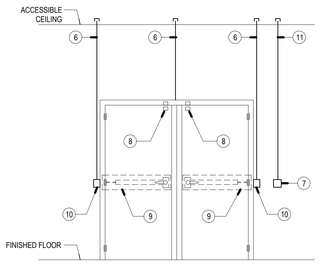
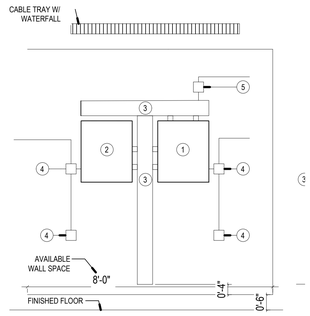
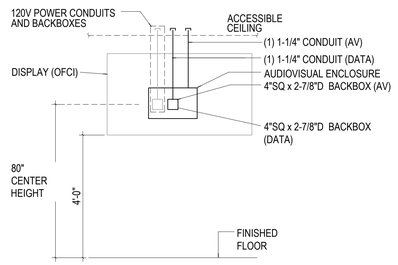


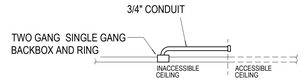
DBL DOOR - CR | 13



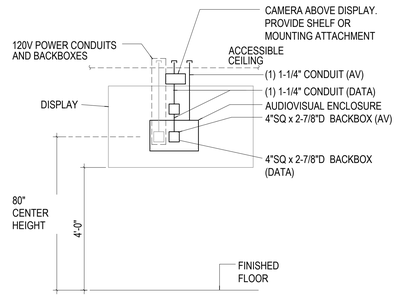
SECURITY ELEVATION ROOM 134 | 9



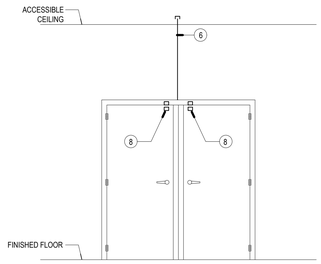
DISPLAY ELEVATION | 5



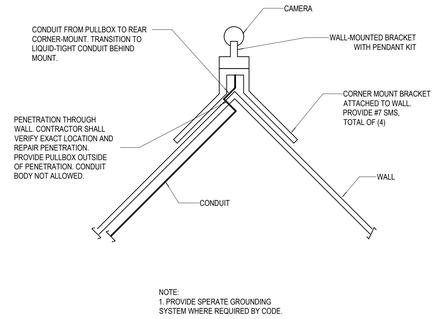
CEILING OUTLET - INACCESSIBLE CEILING | 1



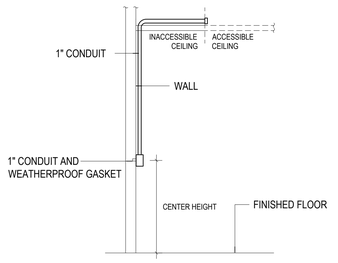
DISPLAY ELEVATION W/ CAMERA | 14



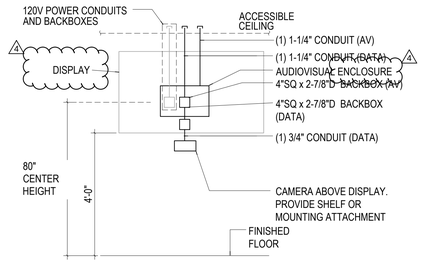
DBL DOOR - DC ONLY | 10



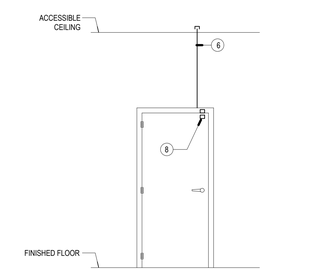
CORNER MOUNT CAMERA | 6



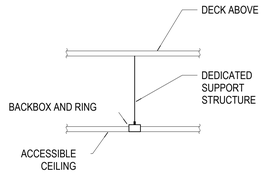
EXTERIOR WALL OUTLET - RECESSED | 2



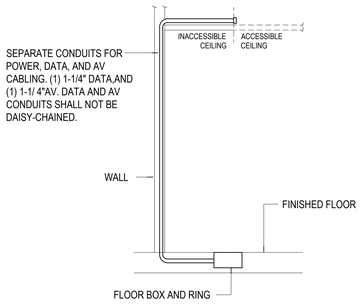
DISPLAY ELEVATION W/ CAMERA | 15



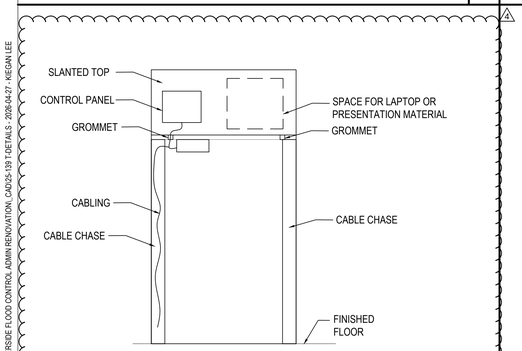
SGL DOOR - DC ONLY | 11



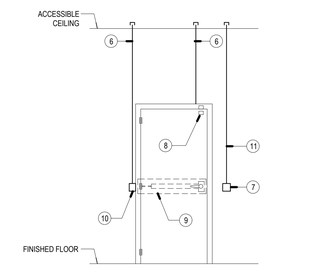
CEILING OUTLET - ACCESSIBLE CEILING | 7



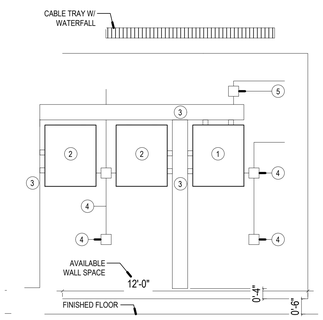
FLOOR BOX OUTLET | 3



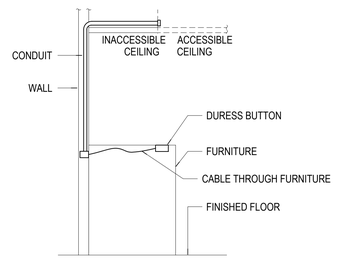
PODIUM/LECTERN | 16



SGL DOOR - CR | 12



SECURITY ELEVATION ROOM 233 | 8



WALL FEED - DB | 4

GENERAL NOTES

CONSTRUCTION NOTES

1. COMBINED ACCESS CONTROL AND POWER SUPPLY ENCLOSURE
2. INTRUSION DETECTION PANEL
3. 6"x6" WIREWAY
4. 120V POWER
5. FIRE ALARM RELAY
6. 3/4" CONDUIT
7. CARD READER MOUNTED TO 4" SQ x 2-7/8"D BACKBOX
8. PREP FRAME FOR DOOR CONTACT. PROVIDE RECESSED DOOR CONTACT, REFER TO DIVISION 8
9. ELECTRIFIED TRANSFER HINGE/POWER TRANSFER & LOCKING HARDWARE- REFER TO DIVISION 8
10. SINGLE GANG BOX
11. 1" CONDUIT

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COUNTY OF RIVERSIDE
FLOOD CONTROL

1995 MARKET STREET
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ISSUED FOR:

PLAN CHECK SUBMITTAL	12/22/25
PLAN CHECK RESUBMITTAL 01	03/03/26
BID ADDENDUM #02	04/17/26
BID ADDENDUM #04	04/27/26

REVISIONS:

1	PLAN CHECK CORRECTIONS	03/03/26
2	BID ADDENDUM #02	04/17/26
4	BID ADDENDUM #04	04/27/26

REGISTERED PROFESSIONAL ENGINEER
SHAWN KOMEILI
22839
SIGNED:04/27/26
ELECTRICAL
STATE OF CALIFORNIA

REGISTRATION/SIGNATURE:

SHEET TITLE:
TECHNOLOGY DETAILS

SHEET NUMBER:
T-5.1

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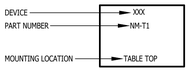
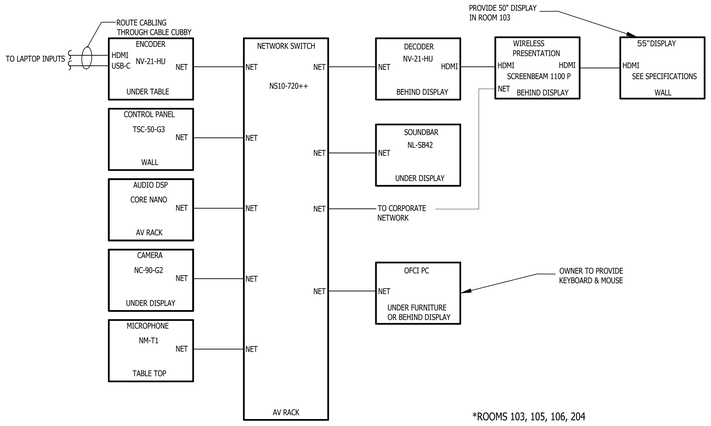
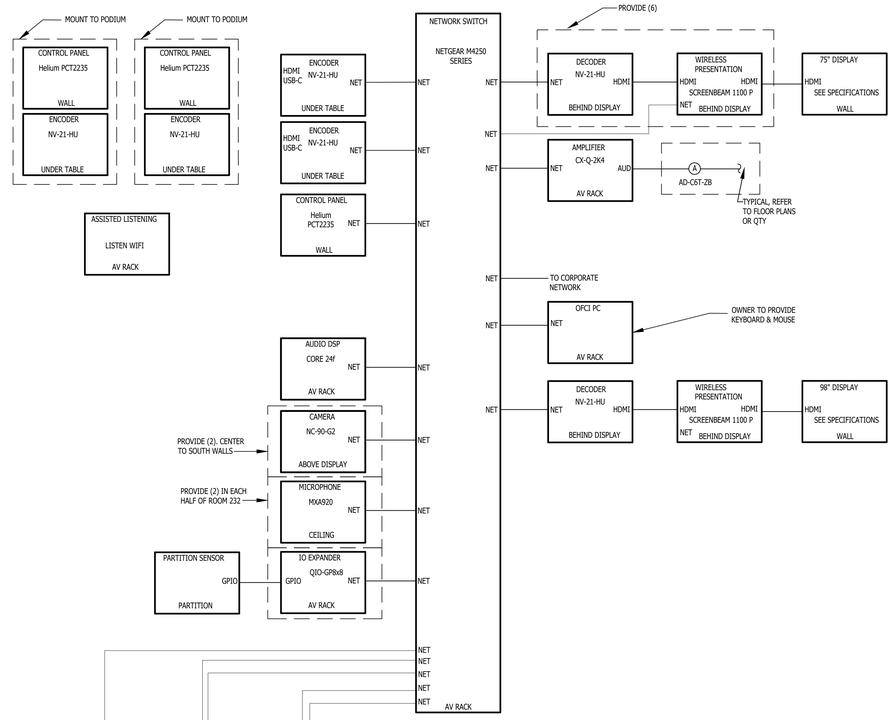


SINGLE LINE LEGEND

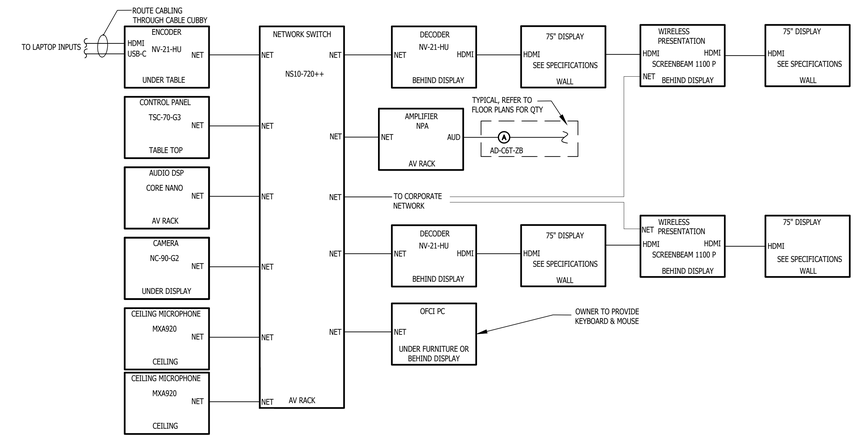


*ROOMS 103, 105, 106, 204

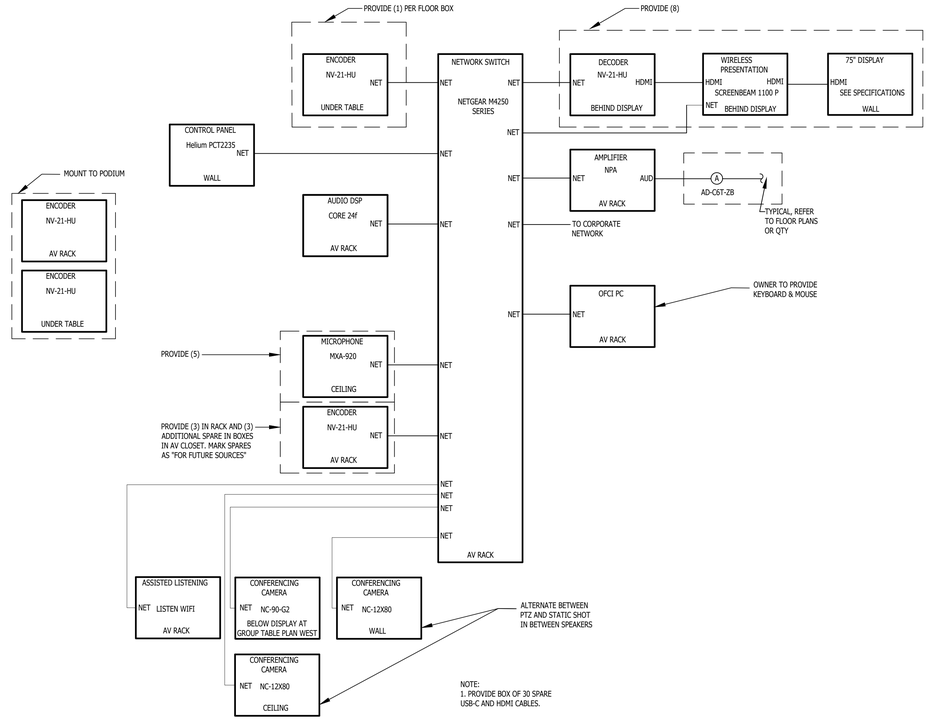
SMALL CONFERENCE ROOM SINGLE LINE | 3



DIVISIBLE ROOM 232 | 1



LARGE CONFERENCE ROOM 119 & 219 SINGLE LINE | 4



TRAINING ROOM 221 | 2

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4	BID ADDENDUM #04	04/27/26

REGISTERED PROFESSIONAL ENGINEER — BRANDON K. KOMATSU — 22839 — ELECTRICAL — STATE OF CALIFORNIA — SIGNED:04/27/26

REGISTRATION/SIGNATURE:

SHEET TITLE:

AV SINGLE LINES

SHEET NUMBER: T-5.2

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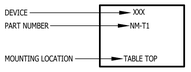
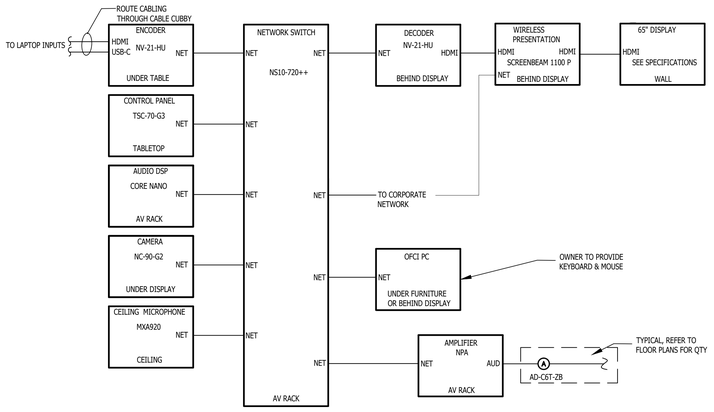
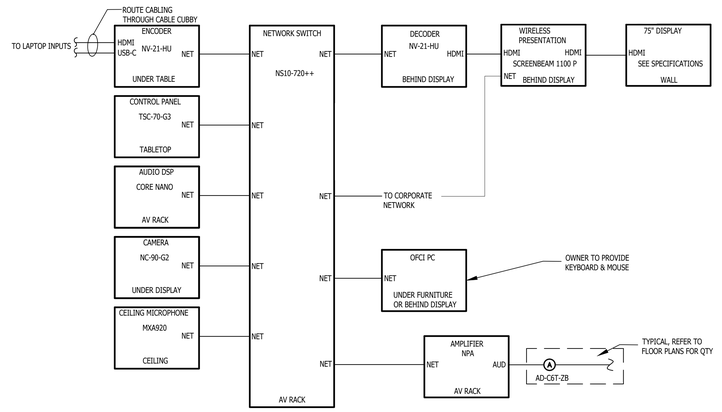


SINGLE LINE LEGEND



*ROOMS 104, 115

MEDIUM CONFERENCE ROOM 1



*ROOMS 117, 118, 143, 219, 237

LARGE CONFERENCE ROOM 2

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AV SINGLE LINES

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ADDENDUM # 04 – April 27, 2026
Flood Control and Water Conservation District
Tenant Improvement Project

Narrative of Architectural and RCIT Construction Document Changes

The below items summarize the revisions clouded as part of Delta 4 – Bid Addendum #04.

SHEET	NARRATIVE OF CHANGES
A2-4.2	At Conf 103: added power and data for added digital screen. Added equipment note #10 for digital screen tags G and G1.
A2-4.2	At E.O.C. Room: removed furniture piece next to conference-style table, relocated conference table floor outlets and conference tv wall outlets, added power and data at plan south wall for lectern/podium furniture, added lectern/podium furniture piece, relocated wall outlets for tv at plan south wall. At Team Room 232: added wall power and data outlets for furniture (podiums), removed 2 display screens from room, relocated display screen outlets. Added equipment note #10 for digital screen tags G and G1.

Below is the response to the Bid Addendum #04 dated 04.27.26 and plan revisions

Technology

- T-0.1: TECHNOLOGY LEGENDS & NOTES
  a. Revised sheet index.
- T-2.2: TECHNOLOGY DEMOLITION PLAN -BUILDING 1B
  a. Revised notes
- T-4.2: TECHNOLOGY REMODEL PLAN -BUILDING 1A
  a. Revised speaker quantities.
  b. Revised control panel locations.
  c. Added AV to room 103.
  d. Revised room 105 to rough-in only.
- T-4.3: TECHNOLOGY REMODEL PLAN -BUILDING 1B
  a. Revised speaker and camera quantities
  b. Removed cameras and displays.
  c. Clarified display usage in room 251.
  d. Added lectern notes.
- T-5.1: TECHNOLOGY DETAILS
  a. Revised details.
  b. Added lectern detail.
- T-5.2: AV SINGLE LINES
  a. Revised single lines.
- T-5.3: AV SINGLE LINES
  a. Added sheet.
- 27 41 16: AUDIOVISUAL SYSTEMS
  a. Revised specifications

- END -

SECTION DIVISION 274116
AUDIOVISUAL SYSTEMS

PART 1 GENERAL

1.01 SUMMARY

1. This section specifies the basic requirements for communications installations as indicated or required and includes requirements common to more than one specification section of this division (such as related documents, related sections, definitions, governing requirements, contractor requirements, warranty requirements, submittal requirements/procedures, and project closeout requirements/procedures, as well as other requirements). This section may expand upon and/or supplement the requirements specified in.
2. Examine the contract documents in their entirety (including drawings and specification sections in the other divisions) for requirements or work which may affect work under this section, regardless of whether such requirements or work are specifically indicated in this section.
3. Errors or Omissions in Drawings or Documentation
    a. If any errors or omissions appear in Drawings, Specifications, or other documents, the bidding Contractor shall notify the Engineer no later than ten (10) days prior to submitting the bid.
    b. Should conflict occur in or between Drawings and Specifications, the bidding Contractor is deemed to have estimated the more expensive way of doing the work, unless the bidding Contractor has asked for and obtained written decision (addendum) before submission of the bid as to which method or materials will be required.
4. System Performance Requirements
    a. Admin and Owner access into the system shall be provided to the Owner without requiring certifications or certified vendors.
    b. General Audio and Video System Performance
        1) Audiovisual systems shall provide clear, distortion-free program audio, consistent coverage, and full-range reproduction appropriate to the room type.
        2) All equipment shall be current-generation, commercially supported, and compliant with AVIXA, ANSI, AES, IEC, and applicable code requirements.
        3) Systems shall be designed for future scalability, including updated media formats, increased resolution, network bandwidth, and emerging audio/video transport standards.
        4) Where the Owner maintains standardized product lines or equipment families, new equipment shall be consistent with the same lineage to ensure compatibility, uniformity of operation, and ease of maintenance.
        5) Substitutions outside established product lines require Owner approval and must demonstrate measurable improvements in performance or lifecycle value.
        6) Systems shall be compatible with Microsoft Teams and be able to utilize Teams built-in transcription and recording.
        7) All remotes shall be labeled for the room and display they come with and returned to Owner.
        8) Cabling through conference tables shall be coordinated with the furniture vendor and routed through furniture-provided retractable cable cubbies.
        9) PTZ cameras shall have auto-tracking for presenter/speaker.

(a) In rooms with multiple cameras, cameras shall switch between wide angle view and PTZ tracking.

10) Ceiling microphones shall be beamforming.

(a) LED indicator shall indicate if microphone is on, off, or muted.

c. Rooms 211 & 232 Audio Performance Requirements:

1) Frequency Response

(a) Full-range program playback: 50 Hz – 16 kHz (±3 dB)

(b) Speech reproduction: 125 Hz – 12 kHz (±3 dB)

2) Maximum Output Levels (at audience area)

(a) Program playback: 100 dB continuous, 105 dB peak

(b) Speech reinforcement: 90 dB continuous

(c) Achieve output with no audible distortion, rattles, or buzzes.

3) Total Harmonic Distortion

(a) < 1% THD at specified output levels.

4) Coverage Uniformity

(a) Comply with AVIXA 1M – Audio Coverage Uniformity (ACU):

(1) ±3 dB uniformity over 75% of the audience area.

(2) No more than ±6 dB variation across entire room.

5) Low-Frequency Reproduction

(a) DSP shall provide proper alignment, phase, crossover, and limiting.

6) System Headroom

(a) Minimum 10 dB of headroom above design output levels.

(b) System shall not exhibit compression at maximum specified levels.

d. Conference Rooms – System Summary

1) Provide complete audiovisual systems for all conference rooms as indicated in the Contract Documents. Systems shall support day-to-day collaborative use, remote conferencing, presentations, and hybrid meetings. Requirements include, but are not limited to:

2) Integrated Video Conferencing

(a) Systems shall support high-quality hybrid meetings using Microsoft Teams or Owner-approved UC platforms. Videobar or discrete camera/microphone systems shall deliver clear far-end and near-end audio with proper echo cancellation, beamforming (where applicable), and consistent voice pickup throughout the seating area.

(b) PCs shall be provided in the room they are serving.

(c) Room shall be capable of BYOD wireless conferencing.

3) Display and Presentation Systems

(a) Conference room displays shall meet required brightness, resolution, and viewing-angle performance for both soft conferencing and in-room presentation use. Provide wired and wireless presentation inputs including HDMI, USB-C (as required), and Owner-approved wireless sharing protocols.

(b) In rooms with (2) displays, displays shall be capable of displaying remote attendees & teams chat, while also seeing presented content.

4) Audio Systems

(a) Provide ceiling- or table-mounted microphones, loudspeakers, and DSP processing necessary for clear voice reinforcement, conferencing audio, and program playback. Systems shall comply with AVIXA ACU requirements for coverage uniformity and shall maintain appropriate gain structure and headroom. Refer to floor plans and single line diagrams for device types.

5) User Interface and Control

(a) Provide standardized room control via touch panels for system power, source selection, conferencing platform startup, camera control (where applicable), volume control, and room presets. All conference rooms shall share consistent GUI layouts and operational workflows.

6) Network & Integration

(a) AV-over-IP, control, and USB transport shall be designed to ensure secure, reliable, and scalable operation. Systems shall not interfere with adjacent rooms, and must prevent cross-room device association or wireless roaming.

7) Room Scheduling

(a) Provide room scheduling panels integrated with Owner's calendaring system for room availability, reservation, and status indication.

(b) Room schedulers LEDs shall be red if in use, and green when not in use.

e. Room 221 – System Summary

1) Provide a mission-critical audiovisual system for the Emergency Operations Center (EOC) capable of supporting real-time incident management, situational awareness, and multi-agency coordination. The system shall meet elevated reliability, redundancy, and performance requirements as follows:

2) Mission-Critical Reliability

(a) All EOC systems shall operate continuously during emergency activation without single points of failure. Provide redundant power feeds, UPS support, network paths, and failover capability for essential AV processing and display systems. System architecture shall allow continued operation during partial equipment failure.

3) Unified Conferencing Integration

(a) Integrate soft-codec conferencing, SIP or VoIP telephony (where required. Systems shall allow simultaneous conferencing sessions, press-briefing feeds, and remote-agency communication via Microsoft Teams.

(b) Room shall be capable of BYOD wireless conferencing.

4) Source Inputs & Information Routing

(a) Provide encoders for laptops, PCs, emergency equipment, media feeds, security systems, and GIS-related sources. Routing systems shall provide low-latency transport, secure handling of sensitive feeds, and support for encrypted video/audio content where required.

f. Room 232 – System Summary

1) Provide training room capable of up to (2) divisible rooms.

(a) With partition removed, all systems shall be converged into one with GUI interfaces mirroring each other.

(1) Audio, video, and control shall be a single system.

(b) With the partition closed, rooms shall be functionally separate with no overlapping AV or control functions.

(1) Audio, video, and control shall be separate systems.

(c) GUI shall be configured to monitor position of room partition and to override partition sensor.

2) Audio & Communications Systems

(a) Provide distributed audio systems capable of clear speech reproduction for briefings, alerts, and teleconferencing. DSP shall support zoned paging, operator monitoring, conferencing integration, and configurable routing. Audio systems shall maintain operational clarity even during concurrent program, paging, and conferencing activity.

(b) Provide ability to mute individual ceiling microphones.

3) Unified Conferencing Integration

(a) Integrate soft-codec conferencing, SIP or VoIP telephony (where required. Systems shall allow simultaneous conferencing sessions, press-briefing feeds, and remote-agency communication via Microsoft Teams.

(b) Room shall be capable of BYOD wireless conferencing.

4) Room scheduling

(a) Divisions or entire room shall be able to be reserved.

(b) LEDs shall be red if in use, and green when not in use.

5) Source Inputs & Information Routing

(a) Provide encoders for laptop sources. Routing systems shall provide low-latency transport, secure handling of sensitive feeds, and support for encrypted video/audio content where required.

g. Video Performance Requirements:

1) Resolution Requirements

(a) Minimum native display resolution: 3840 × 2160 (4k)

2) Systems shall support:

(a) 1280 × 720

(b) 1920 × 1080

(c) 3840 × 2160

3) Image Quality

(a) Displays shall exhibit no dead pixels, discoloration, banding, or geometric distortion.

4) Brightness & Contrast

(a) Display brightness shall be appropriate to ambient light conditions and room usage.

h. Wireless System Requirements:

1) Wireless AV links, microphones, control devices, or assistive listening components shall not interfere with adjacent-room systems.

2) Frequency coordination shall prevent cross-room device association.

3) Channel assignments shall be locked to prevent auto-roaming.

4) Integration with Assisted Listening Systems

i. Control System Performance Requirements:

1) The control system shall provide reliable, synchronized, and deterministic operation of all audiovisual and ancillary systems within the room.

2) Control processing shall be performed by a dedicated control processor capable of real-time execution without perceptible latency.

3) All user interfaces (touch panels, wall stations, button panels) shall present a consistent, intuitive, and unified control experience across all spaces.

j. GUI Touch Panel Requirements

1) Return to home page shall be required on all pages.

2) All Microsoft Teams buttons shall be programmed.

3) Medium and large touch panels shall provide primary room control including, but not limited to:

(a) System power on/off

(b) Source selection

(c) Volume control (on/off, mute)

(d) Audio level control and muting

(e) Video routing from any source to any or multiple destination(s) on a single page

(f) PTZ camera control and presets

(g) Mode selection (Presentation, Reset/Default, etc.)

(h) Divisible partition (Conference 232 only)

(1) Provide override buttons of partition sensor.

4) Small touch panels shall provide primary room control including, but not limited to:

(a) System power on/off

(b) Source selection

(c) Volume control (on/off, mute)

(d) Mode selection (Presentation, Reset/Default, etc.)

5) GUI pages shall follow a consistent layout and visual structure across all rooms.

(a) In Conference 232, GUI shall be mirrored when partition is open.

6) All buttons shall include visible feedback (color change, status indicator, icon state).

7) GUI shall prevent access to backend system configuration, DSP tuning, or device programming without credentialed access (PIN, login, or admin page).

8) Passwords shall be provided for accessing AV equipment setting pages.

(a) DSP settings

(b) Device health monitoring & diagnostics

(c) Equipment status

(d) Routing matrices

9) Navigation shall be logically structured so that all primary functions are accessible within two screen transitions from the home screen.

10) The GUI shall incorporate Owner-approved branding elements including color palette and logo (where applicable).

11) Touch panel processing shall support future expansion for additional scenes, sources, or equipment changes without requiring replacement of hardware.

12) Support email or phone number shall be visible for contacting IT or help.

k. DSP Integration

1) Adjustments shall be provided to minimize feedback between all in-room microphones and speakers.

2) All adjustments made via GUI or button interface shall be reflected in the DSP and vice versa.

3) Scene recall shall be safe, ensuring that gain structure, routing, equalization, and dynamics do not cause system overload or instability.

4) DSP processing shall handle:

(a) Crossovers

(b) Alignment

(c) Limiters

(d) EQ

(e) Time delays

(f) Routing matrices

l. Video System Control

1) Control system shall manage:

(a) Display power

(b) PTZ camera adjustments and preset (focus, zoom, shift)

(c) Input switching

(d) Divisible partition

(e) Default settings

2) Displays shall provide response feedback to the GUI (power status, input status, lamp hours, error/status messages).

m. System Logic & Safety

1) Control system shall prevent conflicting commands (e.g., simultaneous ON/OFF states, multiple routing paths to the same DSP input).

2) Improper sequencing shall not cause system lockout, crashes, or infinite loops.

3) Volume limits, DSP headroom thresholds, and system protection routines shall be enforced by the control logic.

4) System shall maintain last-known volume and state information unless safety protocols dictate reset on power-cycle.

5) The system shall allow technical/admin control pages behind PIN/credential access for advanced functions, including:

(a) DSP gain structure

(b) Preset management

(c) Diagnostic feedback

(d) Device connectivity status

n. Power Management

1) Control system shall coordinate orderly shutdown and startup of AV and environmental devices to ensure proper system stability.

2) Control system shall be capable of full system power cycling for all AV equipment within the room.

3) Power sequencing shall protect amplifiers, DSPs, and powered loudspeakers from transient damage.

4) All rooms, except for 221, shall automatically power down at user-specified time every day.

1.02 DEFINITIONS

1. “AHJ”: Authority Having Jurisdiction
2. “Connect”: To install patch cords, equipment cords, crossconnect wire, etc. to complete and electronic or optical signal circuit.
3. “Cord”: a length of cordage having connectors at each end. The term “Cord” is synonymous with the term “Jumper” and “Lead”.
4. “Furnish”: To purchase, procure, acquire, and deliver complete with related accessories.
5. “ISP”: Inside Plant
6. “NEMA”: National Electrical Manufacturers Association
7. “OFCI”: Owner-furnished contractor-installed; coordinate the integration of components furnished by the Owner; provide mounting hardware, cable, connectors, etc. to ensure proper integration of OFCI equipment.
8. “OFE”: Owner Furnished Equipment
9. “OSP”: Outside Plant
10. “Provide”: To furnish, transport, install, erect, connect, test and turn over to the Owner, complete and ready for regular operation
11. “Approved Grounding Point”: an approved grounding point is one that satisfies the applicable electrical code and provides a low impedance path to earth. Examples include the following though may manifest in different means: a telecommunications grounding busbar (such as for bonding an equipment rack within a telecom room), the ACEG of the electrical panel serving the equipment requiring bonding to ground (such as for bonding a credenza rack within a conference room), or the ground conductor of a branch circuit (such as for bonding a single piece of equipment).
12. “Audience Area”: the portion of a presentation space intended to be occupied by an audience. An audience area includes the primary seating and standing spaces and may included the adjacent circulation spaces. An audience area generally excludes spaces reserved for presenters.
13. “Audience Area”: the portion of a presentation space intended to be occupied by an audience. An audience area includes the primary seating and standing spaces and may include the adjacent circulation spaces. An audience area generally excludes spaces reserved for presenters.
14. “Custom” indicates systems or components the Contractor fabricates based on these specifications and drawings
15. “EDID”: Extended display identification data
16. “HDCP”: High-bandwidth digital content protection

17. “HDMI”: High-definition multimedia interface
18. “OFE”: Owner Furnished Equipment
19. “RU”: rack unit, as defined in EIA/ECA-310
20. “Shall” denotes a mandatory requirement
21. “Should” denotes an advisory statement
22. “SPL”: sound pressure level
23. “THD”: total harmonic distortion
24. “System”: The audiovisual components, cabling, and programming incorporated in the descriptions and equipment lists herein

1.03 REFERENCES

1. Most recent editions, revisions, addenda, and bulletins of the following documents:
    a. ANSI/TIA–568 series
    b. ANSI/TIA–569 Telecommunications Pathways and Spaces
    c. ANSI/TIA–606 Administration Standard for Telecommunications Infrastructure
    d. ANSI/TIA–607 Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises
    e. ANSI/TIA–862 Structured Cabling Infrastructure Standard for Intelligent Building Systems
    f. Telecommunications Distribution Methods Manual
    g. Information Transport Systems Installation Methods Manual (ITSIMM)
2. Americans with Disabilities Act
3. California Electric Codes (CEC)
4. Local Codes and Standards – all applicable
5. NFPA 70 – National Electrical Code
6. NFPA 101 – Life Safety Code
7. UL 969, “Marking and Labeling Systems”
8. UL 1419, “Professional Video and Audio Equipment”
9. UL 60065, “Audio, Video and Similar Electronic Apparatus – Safety Requirements”
10. InfoComm 1M, “Audio Coverage Uniformity in Enclosed Listener Areas”
11. InfoComm 2M “Standard Guide for AV Systems Design and Coordination Processes”
12. InfoComm F501 01, “Cable Labeling for Audiovisual Systems”
13. “Sound Systems Engineering”, 3rd Ed., Davis and Davis
14. EIA/ECA-310, “Cabinets, Racks, Panels, and Associated Equipment”
15. Local Authority Having Jurisdiction (AHJ)
16. Anywhere cabling standards conflict with one another or with electrical or safety codes, Contractor shall defer to the NEC and any applicable local codes or ordinances, or default to the most stringent requirements listed by either
17. Any violations of applicable standards or codes committed by the Contractor shall be remedied at the Contractor’s expense.

1.04 QUALIFICATIONS

1. The contractor shall hold a valid State of California C7 and C10 Contractor’s license.

2. Contractor shall have a proven track record in the field of specified cabling and system installations, with at least (3) previous installations of comparable size and complexity undertaken within the last (5) years.
3. Contractor shall have advanced certifications (i.e. CTS-I, CTS-D).
4. Contractor shall have manufacturer-specified advanced certifications for critical system components (i.e. DMC-D, XTP, etc.).
    1) QSYS
        (a) Q-SYS Level One
        (b) Q-SYS Level Two
        (c) S-SYS Control & UCI
    2) Alternate: Crestron
    3) Alternate: Extron
5. Contractor shall be a manufacturer's authorized distributor and warrantee station for the equipment offered, and shall maintain a fully equipped service organization capable of furnishing adequate repair service to the equipment.

1.05 SUBMITTALS

1. Make submittals in accordance with:
    a. Document 0070000 – General Conditions of the Standard Form Construction Contract between County and Contractor.
2. Action Submittals:
    a. Shop Drawings
        1) Owner will provide electronic files in CAD or Revit format, containing the contract document drawing files, for use in the preparing of the shop drawings.
        2) Drawings will be to scale.
        3) Submit the following sheets and details:
            (a) Titlesheet and Cover Page: indicate project name and location; include sheet index
            (b) Overall Floor Plans: floor plans showing the locations of devices not within enlarged plans; devices and cable routing paths with cable types, quantity called out, and device IDs; rack locations; wall elevations of displays s; new pathways/conduits/boxes/etc.
            (c) Enlarged Plans: Floor and reflected ceiling plans showing the locations of devices and cable routing paths with cable types, quantity called out, and device IDs; rack locations; wall elevations of displays; loudspeaker power; new pathways/conduits/boxes/etc.
            (d) Rough-in and wiring details. Include button panel layouts.
            (e) Functional line diagrams showing full scope of wiring and cabling between equipment, indicating Contractor and Owner scopes of work.
    b. Product submittal
        1) Contractor shall furnish products for a complete, turnkey system. Submit major components and ancillary accessories required for complete system. Minor accessories like screws and nuts are not required for submission, unless specified in Part 2.
        2) Product submittal shall be a single complete submittal. Incomplete submittals will be rejected without review.

3) Partial submittals will be allowed for short lead items only with documentation on lead time included at the front of the submittal.

4) Catalog cut sheets and data sheets containing physical and dimensional information, performance data, electrical characteristics, materials used in fabrication, material finish, and licenses. Clearly indicate on each sheet what is being submitted on.

5) For touchscreen panels, submit separate PDFs per system with a page for each menu, submenu, and pop-up.

6) Submit Owner logos where required by Owner standards.

7) Qualification Data: Submit at least three references for projects similar in scope to the project described herein. Include, for each customer reference, the following information: Company name, address, phone number, name and email address of contact and type of job completed.

(a) Provide copies of the Contractor's certification.

(b) Provide written guarantees from manufacturers of major equipment, that a service representative has been assigned.

(c) Provide copies of technician training certificates.

8) Submit test procedures for each room and standalone device. Group test procedures per room/standalone device.

1.06 CLOSEOUT DOCUMENTS

1. Final close out documents including, but not limited to, test results on in digital PDF and physical CD–ROM or USB drive, in native tester format, project manual that includes manufacturer and contractor warranties, product cut sheets, material submittals, etc. Also, include the following:

a. Provide "As–Built" Drawings in AutoCAD or Revit.

1) "As–Built" drawings indicating location of all equipment including but not limited to outlets, patch panels, on each segment and cable routing outlet and identifiers. Indicate labeling for each piece of equipment.

2) As–Built drawings will contain all installed cabling and materials. Outlets will be labeled with each cable associated with the work area outlet.

3) Red-lined shop drawings submitted as As-built drawings will be rejected without review.

4) (1) printed, hard copy of final approved as-built drawings in native sheet size will be provided to Owner. Unapproved sheet sizes will be rejected.

b. Provide printed test reports in 3-ring binder and submit to Owner.

c. Owner's written acceptance of installed systems.

d. Print (2) printed copies of full-sized as-built drawings, and submit to Owner.

e. Provide pricing and contact information for emergency service work not covered by warranty.

1.07 QUALITY ASSURANCE

1. Standards for Materials and Equipment

a. The Contractor shall provide all materials, equipment, and installation in compliance with the latest applicable standards from AVIXA, ANSI, FCC, ASTM, EIA/TIA, IEEE, CEC, NFPA, NEMA, OSHA, REA, and UL.

2. Manufacturer's Warranty

a. Warranty shall meet the following criteria:

1) This warranty will cover all cables, terminations, and components provided by the Contractor.

2) Minimum 5-year written warranty covering workmanship, materials, software, and programming from the date of project completion. All repairs shall be made at no cost to the Owner during the warranty period.

(a) Base bid shall include 20 hours, not-to-exceed, on an annual basis for duration of warranty period.

(b) Include hourly rates for service.

(c) Costs shall be provided for extended services not covered by warranty

3) Corrections shall start within 48-hours of notification from Owner.

4) Yearly systems training

5) Preventative maintenance

b. If the warranty is needed by the Owner within the warranted period and the original installer is no longer in business, System manufacturer shall find a substitute certified contractor and assume costs to fulfill the obligations of the warranty.

c. Upon acceptance of the warranty paperwork and test results from the Contractor, System manufacturer will mail a notification letter to the installer and a notification letter with warranty certificate to Owner.

d. The warranty period shall commence following the final acceptance of the project by Owner and written confirmation of warranty from System manufacturer.

e. Provide 5-year software service agreement. Include associated licenses and renewal fees for the agreement's duration. Agreement and licenses shall commence following the project's substantial completion, and not the Contract's purchase date.

3. Acceptance Testing

a. Provide tests specified below, when applicable or required by Owner, and as indicated under individual items of material, equipment, and work specified in this Specification.

1) Furnish all test equipment and instruments required for the tests.

2) Responsible, qualified employees of the contractor in the presence of the Owner or an authorized representative shall perform the cable testing.

1) All individuals involved in the testing phase of the project shall not have been involved in the installation phase nor shall have immediate knowledge of the installation task.

b. End-to-end performance and calibration of all parts and channels shall be tested prior to testing in presence of Engineer.

c. Performance testing of typical rooms and 1-of-each-kind of standalone systems shall be performed in presence of Engineer. System shall be accepted by Engineer prior to testing in presence of Owner.

d. Performance testing of all rooms and standalone systems shall be performed in presence of Owner. Owner's written acceptance of system is a requirement of Closeout, and shall not conclude the Closeout Documentation stage.

1.08 DELIVERY, STORAGE, AND HANDLING

1. To prevent damage, theft, soiling, and misalignment, protect equipment during transit, storage, and handling

2. The contractor shall coordinate the secure storage of equipment and materials on site, or, if no on-site storage is available, shall provide their own secure storage at the Contractor's expense.

a. Do not store equipment where conditions fall outside the manufacturer's recommendations for environmental conditions.

b. Do not install damaged equipment. Remove environmental conditions from the site and replace damaged equipment with new equipment.

c. If off-site storage of materials is necessary, this shall be at the Contractor’s expense.

1.09 PROJECT CONDITIONS

1. Project Environmental Requirements

   a. Hazardous Materials Prohibition

      1) The Contractor shall ensure that all materials used in the project are asbestos-free, unless specifically authorized in writing by the Owner.

   b. Existing Conditions

      1) Verify that all conditions on the project site are acceptable for the Work specified in this Section. Prior to bid opening, notify the Consulting Engineer, in writing, of any discrepancies, conflicts, or omissions. Otherwise, correct these issues at no additional cost to the Owner.

      2) Continue to monitor the project site. If conditions develop that require a variance from the Specifications or Drawings, then immediately notify the Owner in writing. Otherwise, make recommendations, submit drawings showing how the Work may be installed, and, upon approval, proceed with the necessary changes without additional cost to the Owner.

   c. Environmental Limitations: Do not deliver or install equipment frames and cable trays until spaces are enclosed and weather–tight, wet work in spaces is complete and dry, and work above ceilings is complete.

   d. Confirmation of Pathway and Cable Manager sizing:

      1) Wherever cabling pathways or managers are installed, it is the Contractor’s responsibility to confirm pathway or manager sizing to represent no more than 25% fill upon installation according to manufacturer’s fill tables.

      2) Pathways deemed overfilled upon installation will not be accepted and shall be remedied at Contractor expense.

1.10 USE OF THE SITE

1. Where the Owner deems it necessary to place restrictions, use the site as directed by the Owner.
2. When proceeding with the work, do not interfere with the ordinary use of streets, aisles, passages, exits, or operations of the Owner. During the day, set up cones and barriers in hallways and walkways. Do not string cable down the hallways during normal hours.
3. Request a hazardous materials worksheet that identifies potentially-hazardous locations. Do not proceed with any work in locations where hazardous materials are known to be. Obtain instructions from the Contractor’s Project Manager on and when to work in these areas.
4. Multiple times each day, each contractor shall remove all trash and debris from the site. Before leaving the room each day:

   a. The Contractor shall replace all ceiling tiles that they have removed.

   b. The Contractor shall place all furniture and equipment that they have moved back into its original location.

   c. The Contractor shall return any equipment that they have disconnected to working order.

d. The Contractor's Job Foreman shall inspect all work locations to ensure that the rooms are clean and that all of the tasks described above have been done.

e. It is recommended that the Contractor inspect the site and take pictures to document the condition of the ceilings and walls.

1.11 RESPONSIBILITIES AND COORDINATION

1. The Contractor shall provide all materials, qualified labor and services required to ensure a complete and operational system, installed in accordance with the intent of the Contract Documents.
2. The Contractor shall furnish and install all incidental items not actually shown or specified, but which are required by best practices to provide complete functional systems.
3. The Contractor shall coordinate the details of facility equipment and construction for all specification divisions, which affect the work covered under this Division.
4. The Contractor shall coordinate with all other trades. The Contractor will submit a schedule for the installation within 15 days of contract award.
    a. The schedule shall include delivery, installation, and testing for conformance to specific job completion dates.
    b. At minimum, the schedule shall provide dates for the start of demolition, the completion of demolition, the installation start date, the completion of copper cabling, the completion of backbone cabling, the completion of testing and labeling, cutover, the completion of the final punch list, final inspection, and acceptance.
5. The Contractor shall develop a bill of materials, perform material management and efficient use of the materials whether they are issued by Owner or purchased by the Contractor.
6. The Contractor shall ensure materials, in excess of, those required to complete the project are kept in their original condition and packaging for restocking.
7. The Contractor shall maintain existing cables and terminations not determined to be within the demolition scope of work. Cables damaged, removed, or unterminated shall be reinstalled and recertified with the manufacturer's certified installer, and test results provided to the Owner.

1.12 DESIGN CRITERIA

1. Compliance by the contractor with the provisions of this Specification does not relieve him or she from the responsibilities of providing materials and equipment of proper design, mechanically and electrically suited to meet operating requirements at the specified service conditions.

1.13 LABELING

1. Refer to Owner's standards for labeling requirements.
2. Comply with TIA/EIA–606–A, TIA/EIA–606–A, Addendum 1 and UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.
3. Labeling: Provide labeling for audiovisual system components. The components include, but are not limited to, the following:
    a. Equipment racks and equipment enclosures
    b. Rack-mounted equipment and devices: Provide a label on the back of each piece of equipment. If a serial number (of a given piece of equipment) is not visible in a final installed condition, provide a label on the equipment on a visible location duplicating the serial number.
    c. Wall-mounted equipment and devices: Provide an equipment label on the back of each piece of equipment. If a serial number (of a given piece of equipment) is not

visible in a final installed condition, provide a label on the equipment on a visible location duplicating the serial number.

d. Wires and cables: Provide a cable label at each end of each piece of wire, cable, and cord.

e. Terminal blocks, patch panels, and other termination apparatus: Provide a label on each termination block, piece of termination apparatus and termination position on patch panels.

f. Handheld and wireless devices

g. User interfaces, devices, faceplates

PART 2 PRODUCTS

2.01 GENERAL

1. This Section includes General Requirements for each section in Division 27 and shall be used in conjunction with specifications, other related Divisions and related Contract Documents to establish the total requirements for the project.
2. All materials and products shall be:
   a. Appropriate for the intended use
   b. Permitted by the Authority Having Jurisdiction (AHJ)
3. Provide products of the same type from a single manufacturer to the greatest extent practicable. Components, devices, and equipment within each system or space shall be products of one manufacturer and shall be designed and tested for compatibility and integrated operation.
   a. Where multiple components are required to form a complete system, provide products that are part of a manufacturer’s standard product line and are intended to operate together as a unified system. Mixing of products from different manufacturers will not be permitted unless specifically approved by the Architect/Engineer.
   b. Submit written certification from manufacturers that products supplied are fully compatible and suitable for the intended application.
4. All products shall be new, of the latest version at time of bid, and brought to the job site in original manufacturer's packaging. Used equipment and damaged material will be rejected.
5. Provide attachments and accessories necessary for complete installation.
6. Any modifications to equipment to suit the intent of the specifications shall be performed in accordance with these requirements.
7. Take care during installation to prevent scratches, dents, chips, etc. Equipment with significant or disfiguring cosmetic flaws will be rejected.
8. All components will be approved by the Engineer and shall have the most aesthetic value possible while maintaining specified functionality. Hardware shall:
   a. Be in compliance with the Construction Documents.
   b. Have fit and finish compatible with the existing surrounding structure.
   c. Be unobtrusive.
   d. Provide the required functionality.
9. Fabricate custom-made equipment with careful consideration given to aesthetic, technical, and functional aspects of the equipment and its installation.
10. Provide products that are suitable for the intended use, including, but not limited to environmental, regulatory, and electrical factors.

2.02 SUBSTITUTION POLICY

1. Substitution of specified products or systems is not allowed.
2. Contractor shall assume all costs for removal and replacement of any product installed in substitution of those specified. Such costs shall include but not be limited to labor, materials as well as any penalties, fees or costs incurred for late completion.

2.03 MANUFACTURERS

1. Displays:
    a. General Requirements
        1) Commercial-grade flat panel displays suitable for continuous operation.
        2) Native resolution: minimum 3840 × 2160 (UHD).
        3) LED-backlit LCD technology with anti-glare treatment.
        4) Landscape orientation, wall-mounted unless noted otherwise.
        5) Integrated control via RS-232, IP, or manufacturer-supported API.
        6) Rated for minimum 16/7 operation (conference rooms, training rooms) and 24/7 operation where required (EOC).
        7) Compliance with ENERGY STAR or equivalent efficiency program.
    b. Conference Rooms
        1) Display size: 65"–86" diagonal, based on room size and viewing distance.
        2) Brightness: minimum 500 nits.
        3) Input support: HDMI 2.0 or better; DisplayPort acceptable.
        4) Suitable for collaboration, video conferencing, and wireless presentation content.
    c. Emergency Operations Center (EOC)
        1) Display size: 75"–98" diagonal, or video wall-compatible displays where indicated.
        2) Brightness: minimum 700 nits.
        3) 24/7 rated panels with thermal management designed for continuous operation.
        4) Narrow bezel options preferred for adjacent or arrayed installations.
        5) Designed for mission-critical visualization, situational awareness, and data dashboards.
    d. Training Rooms
        1) Display size: 75" diagonal.
        2) Brightness: minimum 500 nits.
        3) Optimized for presentation content, instructional video, and hybrid learning.
        4) Support for extended viewing sessions without image retention.
    e. Basis-of-Design Manufacturers
        1) Samsung Business Models
        2) NEC Business Models
        3) Panasonic Business Models
    f. Mounts
        1) Tempo™ Flat Panel Wall Mount System
        2) Or equal

g. Recessed enclosures
    1) Chief PAC525F
    2) Or equal

2. Encoders & Decoders
    a. Support for network-based AV distribution over standard Ethernet infrastructure.
    b. Video formats: HDMI input/output, up to 4K resolution.
    c. Low-latency transport suitable for live presentation and conferencing.
    d. Powered via PoE/PoE+ or local power supply.
    e. Full integration with control and audio processing platform.
    f. Multicast and unicast support.
    g. Manufacturer:
        1) Q-sys NV-21-HU
        2) Crestron
        3) Extron

3. Loudspeakers
    a. 6.5-inch coaxial ceiling loudspeaker with integrated back can.
    b. Transformer-tapped for 70V/100V distributed audio systems.
    c. Wide dispersion pattern for uniform speech coverage.
    d. Plenum-rated enclosure.
    e. UL listed.
    f. Manufacturer
        1) Q-sys AD-C6T-ZB
        2) Crestron
        3) Extron

4. Soundbar
    a. Integrated loudspeakers, microphones, and processing suitable for conferencing.
    b. Designed for wall mounting above or below displays.
    c. Network-connected and software-configurable.
    d. Optimized for small to medium conference rooms.
    e. Manufacturer
        1) Q-sys NL-SB42
        2) Crestron
        3) Extron

5. Audio Amplifiers
    a. Four-channel amplifier with minimum total output power of 2000 watts.
    b. Support for both low-impedance and distributed (70V/100V) systems.
    c. Network monitoring and control.
    d. Built-in protection for thermal, short circuit, and overload conditions.
    e. Manufacturer
        1) Q-sys CX-Q 2K4

2) Crestron
3) Extron

6. Audio Processors
   a. Fully programmable DSP supporting routing, mixing, AEC, dynamics, and EQ.
   b. Native integration with control, video distribution, and monitoring systems.
   c. Scalable architecture supporting future expansion.
      1) Manufacturer
      2) Q-sys
         (a) Core 24f
         (b) Core 8 Flex
      3) Crestron
      4) Extron
7. Touch Screen Panels
   a. Capacitive touchscreen with network connectivity.
   b. Conference Rooms:
      1) Minimum 5-inch diagonal display.
   c. Room 232:
      1) Minimum 22-inch diagonal display.
   d. Room 221:
      1) Minimum 22-inch diagonal display.
   e. Support for custom graphical user interfaces.
   f. Powered via PoE
   g. Manufacturer
      1) Q-sys TSC-50-G3
      2) Q-sys TSC-70-G3
      3) Q-sys TSC-110-G3
      4) Helium PCT2235
      5) Crestron
      6) Extron
8. Tabletop Microphones
   a. Low-profile tabletop form factor.
   b. Optimized for speech intelligibility and conferencing.
   c. Network-connected or analog as required by system design.
   d. Manufacturer
      1) Q-sys NM-T1
      2) Crestron
      3) Extron
      4) Or Approved Equal
9. Ceiling Microphones
   a. Ceiling-mounted beamforming microphone array.

b. Automatic coverage with steerable pickup lobes.
c. Network audio connectivity.
d. Suitable for medium to large conference and training rooms.
e. Manufacturer
    1) Shure MXA920
    2) Sennheiser
    3) Or Approved Equal

10. PTZ Cameras:
    a. Minimum 4K imaging sensor.
    b. Optical zoom suitable for medium to large rooms.
    c. Network-based video transport.
    d. Preset control via control system interface.
    e. Manufacturer
        1) Q-sys NC-90-G2
        2) Vaddio
        3) Huddly
        4) Or Approved Equal
11. Wireless Presentation
    a. Native support for Windows, macOS, iOS, Android, and ChromeOS.
    b. Secure screen sharing without required client software or additional dongles/hardware/accessories.
    c. System shall leverage WiFi infrastructure for screen sharing.
    d. Manufacturer
        1) ScreenBeam 1100 Plus
        2) Or Approved Equal
12. Room schedulers:
    a. Network-connected room scheduling displays.
    b. Integration with enterprise calendaring platforms.
    c. LED or on-screen room availability indicators.
    d. Provide mounting for mullion or glass, depending on application.
    e. Manufacturer
        1) Logitech
        2) Humly Sense
        3) Crestron
        4) Biamp
13. Equipment racks:
    a. Standard 19-inch EIA rack format.
    b. Adequate depth and load rating for AV electronics.
    c. Integrated grounding provisions.
    d. Accessories for cable management and ventilation.

e. Manufacturer
    1) Middle Atlantic
    2) CPI
    3) Or Approved Equal

14. AV Switch
    a. Designed specifically for AV-over-IP applications.
    b. Support for VLANs, QoS, multicast, and IGMP.
    c. Preconfigured AV profiles for common AV protocols.
    d. Manufacturer
        1) Netgear M4250 Series
        2) Or Approved Equal

15. Digital Signage Systems
    a. General Requirements
        1) Digital signage systems shall be commercial-grade and rated for continuous operation.
        2) Systems shall support scheduled playback of video, graphics, text, and emergency messaging content.
        3) Provide all hardware, software licenses, firmware, and accessories required for a complete and operational system.
        4) Systems shall be capable of centralized content management.
        5) Digital signage shall be logically and physically separated from life-safety systems unless explicitly noted otherwise.
        6) Products shall be from a single manufacturer per system type unless approved otherwise.
    b. On-Premises Digital Signage Systems
        1) Dedicated solid-state digital signage media player.
        2) Supports 4K video playback, HTML5, still images, and streaming media.
        3) Ethernet network interface; optional Wi-Fi where required.
        4) Capable of local content storage and playback without internet connectivity.
        5) Supports GPIO and serial interfaces for external triggers where required.
        6) Designed for 24/7 commercial operation.
        7) Manufacturer:
            (a) Samsung VXT CMS
            (b) BrightSign XD6 Series
            (c) Videotel VP92+
            (d) Or Approved Equal.
    c. Cloud-Based Digital Signage Systems
        1) Cloud-hosted digital signage content management system.
        2) Designed for use with Samsung commercial displays with embedded media players.
        3) Web-based portal for content creation, scheduling, monitoring, and reporting.

4) Supports multi-display and multi-location management.

5) Provides content caching at the display for limited offline operation.

6) Requires active internet connection for management and updates.

7) Manufacturer

(a) Samsung LYNK Cloud C13

(b) Or Approved Equal.

2.04 AV CABLING

1. General Requirements

   a. All AV cabling shall be commercial-grade, factory-manufactured, and listed for the intended installation environment.

   b. Cabling shall be plenum-rated (CMP) where installed in air-handling spaces; riser-rated (CMR) where permitted by code.

   c. All cabling shall comply with applicable NEC, UL, and local code requirements.

   d. Cable construction shall be suitable for permanent installation and not rely on field-terminated consumer-grade assemblies.

   e. Provide continuous cable runs without splices except at approved termination points.

   f. Bend radius, pull tension, and installation practices shall conform to manufacturer recommendations.

2. Category Cabling (AV over IP, Control, and Peripheral Connectivity)

   a. Category 6A minimum for all new AV network connections supporting AV-over-IP, control, and PoE devices.

   b. Solid copper conductors; stranded cable not permitted for permanent links.

   c. Minimum bandwidth: 500 MHz.

   d. Tested and certified to ANSI/TIA-568 standards.

   e. Shielded (F/UTP or U/FTP) cabling shall be provided where required for EMI mitigation or manufacturer recommendations.

3. Fiber Optic Cabling

   a. Singlemode fiber: OS2, low-water-peak glass.

   b. Multimode fiber: OM4 laser-optimized.

   c. Plenum-rated jackets where required.

   d. Factory-polished connectors; field polishing not permitted.

   e. Suitable for 10G and higher AV transport where required.

4. HDMI and Video Signal Cabling

   a. HDMI cabling shall be Premium High Speed or Ultra High Speed rated, as required by signal resolution and distance.

   b. Active optical HDMI cables shall be used where copper distance limitations are exceeded.

   c. Cables shall support HDCP compliance as required by source content.

   d. Provide strain relief at all equipment terminations.

5. Audio Cabling

   a. Balanced audio cabling for all analog audio signals.

   b. Minimum 22 AWG stranded copper conductors.

c. Shielded twisted pair construction.

d. Plenum-rated where required.

6. Control Cabling

a. Control wiring shall be minimum 22 AWG, stranded, shielded where required.

b. Rated for RS-232, RS-422, RS-485, and GPIO applications as applicable.

c. Jacket rating appropriate to installation environment.

7. Acceptable Manufacturers

a. Belden

b. Liberty AV

c. West Penn

d. Or Approved Equal

PART 3 EXECUTION

3.01 WORKMANSHIP

1. Manufactured products, materials, equipment, and components shall be provided, conditioned, applied, installed, connected, and tested in accordance with the manufacturer's specifications and printed instructions.
2. The installation of all system components shall be carried out under the direction of qualified personnel. Appearance shall be considered as important as mechanical and electrical efficiency. Workmanship shall meet or exceed industry standards.

3.02 INTENT OF DRAWINGS

1. The Audiovisual drawings show only general locations of equipment, devices, raceways, cable trays, boxes, etc., unless specifically dimensioned.
2. The Contractor shall be responsible for the proper placement and routing of equipment, cable, raceways, cable runway, and related components, according to the Contract Documents and subject to prior review by the Owner and structured cabling engineer.
3. The Contractor shall refer any conflicts within the Contract Documents to the Construction Manager and/or Owner for resolution.

3.03 GROUNDING

1. Comply with requirements in both 26 0526 "Grounding and Bonding for Electrical Systems" for grounding conductors and connectors.
2. Comply with ANSI/TIA–607 and the local Electrical Code.

3.04 SERVICE CONTINUITY

1. Maintain continuity of communications services to all functioning portions of the process or buildings during hours of normal use.
2. Arrange temporary outages for cutover work with General Contractor. Keep outages to a minimum number and a minimum length of time in order to provide minimum impact.

3.05 LAYOUT AND TOLERANCES

1. Follow as closely as practicable the schematic design shown on the drawings. Make all necessary measurements in the field to verify exact locations and ensure precise location and fit of specified items in accordance with the drawings. Make no substantial
2. Alterations without prior approval of the owner and the engineer.

3.06 INSTALLATION

1. Anchor and brace enclosures and cabinets where seismic bracing is required.

2. Coordinate cooling for fully enclosed equipment (i.e. fans and vents for racks inside credenzas).
3. Fully secure ceiling mounted equipment and raceways.
4. Loudspeakers in series shall not exceed 75% of rated wattage.
5. Provide service loops in backbox or nearest J-hook.
6. Maintain signal and cable separation per Code and ANSI/BICS standards.
7. Provide strain relief for cables and connectors.
8. Configure EDID management for audio and video parameters are sent to source devices.
9. Ensure HDCP is supported and working. HDCP may be disabled in educational institutions only for “fair use” conditions.
10. Change passwords prior to final acceptance, and enable two-factor authentication.
11. Ensure most current software is installed on devices and headend equipment.
12. Coordinate GUI layout with Owner. Ensure button spacing is consistent and even.

3.07 CONSTRUCTION REVIEW

1. The Engineer and Owner will review and observe installation work to ensure compliance by the contractor with requirements of the Contract Documents.
2. Review, observation, assistance, and actions by the Engineer and Owner shall not be construed as undertaking supervisory control of the work or of methods and means employed by the contractor. The Engineer and Owner review and observation activities shall not relieve the contractor from the responsibilities of these Contract Documents.
3. The fact that the Engineer and Owner does not make early discovery of faulty or omitted work shall not bar the Owner from subsequently rejecting this work and withholding payment until the contractor makes the necessary corrections.
4. Regardless of when discovery and rejection are made, and regardless of when the contractor is ordered to correct such work, the contractor shall have no claim against the Engineer or Owner for an increase in the Subcontract price, or for any payment on account of increased cost, damage, or loss.

3.08 PROJECT RECORD DOCUMENTS

1. Provide detailed project record documentation for sections listed in Part 1.
2. Maintain separate sets of redlined record drawings, which show the exact placement, and identification of as–built system components. These are subject to weekly review by the General Contractor, Owner, or their representative.
3. Hand over all usernames, passwords, and login information to Owner.

3.09 ADDITIONAL CONTRACTOR REQUIREMENTS

1. Contractor is responsible for the removal and disposal of all installation and construction debris created in the process of the job.
2. All work areas will be cleaned at the conclusion of the project and no tools or materials shall be left in a manner as to pose a safety hazard.
3. Projects are not considered finished and will not be paid by Owner until all debris, dust, etc. has been cleaned and removed to the Owner’s satisfaction.
4. Contractor shall remove all abandoned cable per Article 800 of the National Electrical Code and per TIA, BICSI, and AVIXA standards, recycling these materials where possible. Removal of orphaned cable is mandatory. Contractors shall consider this when placing bids.

3.10 FINAL ACCEPTANCE

1. The Contractor is required to notify the Engineer/Owner of a proposed appointment for Final Inspection at least 72 hours before the appointment.
2. Owner may visit site during construction to ensure installation is in compliance with their requirements. Punch items discovered by Owner shall be resolved within 10 days of discovery.
3. System acceptance shall be defined as that point in time when the following requirements have been fulfilled:
    a. All submittals and documentation have been submitted, reviewed, and approved.
    b. The complete system has successfully completed all testing requirements.
    c. All punch list items have been corrected and accepted.

3.11 TRAINING

1. Provide a minimum of (2) 8-hour training session with a minimum of (4) Owner's staff at the project site (or other location designated by the Owner) by a qualified instructor (presence of equipment manufacturer if needed for additional assistance). Topics shall include system usage, operation and maintenance, and minor modifications.

3.12 WARRANTY

1. Maintenance
    a. Contractor shall perform preventative maintenance every (6) months after final completion.
    b. Contractor shall perform at a minimum:
        1) Cleaning of vents, filters, lenses
        2) Dust removal
        3) System performance re-validation
        4) Documentation of equipment requiring replacement (i.e. broken pixels/lenses/lamps, failing motors, etc.)
        5) Firmware updates

END OF SECTION

Date	Company	Contact	Address1	Address2	City	State	Zip	Email	Phone	Fax
3/20/2026 8:34	2H Construction	Ryan Shotwell	2653 Walnut Ave		Signal Hill	CA	90755	ryan@2hconstruction.com	562-424-5567	
3/24/2026 15:46	Angeles Contractor Inc.	Armando Ugalde	783 Phillips Dr		City of Industry	CA	91748	armandou@angelescontractor.com	714-704-3297	
4/9/2026 7:51	Blackstar Contractors (1259664)	Justin Moore	3165 Red Hill		Costa Mesa	CA	92626	jmoore@blackstarcontractors.com	949-252-1244	949-252-1188
3/23/2026 11:48	Blackstar Contractors (1259664)	Raymond Dorame	3165 Red Hill		Costa Mesa	CA	92626	rdorame@blackstarcontractors.com	949-252-1244	949-252-1188
3/23/2026 11:00	Blackstone Builders Inc	Blackstone Builders	11801 Pierce Street, Suite 200		Riverside	CA	92505-4408	vmendez@blackstonebuildersinc.com	951-736-1600	
3/13/2026 15:12	Bogh Engineering LLC	Missy Hanover	401 W. 4th Street		Beaumont	CA	92223	missy@bogh.biz	951-845-4607	
3/23/2026 10:32	Diamond	John Abboud	1849 W Redlands Blvd STE 101		Redlands	CA	92373	johnjr@dcc-inc.com	909-335-4866	
3/24/2026 9:36	Econo Fence LLC	Frank Martinez	5261 Pedley Rd		Riverside	CA	92509	bids@econofenceinc.com	951-685-5000	951-360-8685
4/16/2026 13:31	Empyrean Plumbing, Inc.	Hanah Sanchez	3404 Niki Way		Riverside	CA	92507	office@empyreanplumbing.com	951-776-4616	
4/27/2026 7:53	Enko Systems	Anna Thompson	1001 S Arrowhead Avenue		San Bernardino	CA	92408	annat@enkosystems.com	909-885-7771	
4/20/2026 14:53	F.E.C. Electric, Inc.	Gabriela Baldwin	760 E Stuart Ave		Redlands	CA	92374	gabriela@fec-electric.com	909-793-0965	
3/18/2026 12:09	Horizons Construction Co. Int'l, Inc.	Michael Ortega		432	Orange	CA	92865	mike@horizonscci.com	714-626-0000	714-626-0006
3/31/2026 10:39	Integrated Demolition and Remediation Inc.	Shrenik Vora	4938 E. La Palma Ave.		Anaheim	CA	92807	jay@idrdemo.com	714-483-1534	
3/30/2026 13:32	JM Builder, Inc.	Jennifer Murrey	PO Box 8663		Redlands	CA	92375	jennifer@jmbuilders.org	909-793-4687	909-748-7260
4/16/2026 10:22	Leonida Builders Inc.	Panagiotis Leonida	32023 Crown Valley Road		Acton	CA	93510	panikos@leonidabuilders.com	909-275-3354	951-566-4022
3/23/2026 11:33	MLC CONSTRUCTORS INC	MLC Constructors	710 Rimpau Ave	Suite 208	Corona	CA	92879	estimating@mlcconstructors.com	951-393-0781	
3/30/2026 15:10	Newman Midland Corp.	Ruby Angulo	1355 Redondo Ave.	Suite 12	Long Beach	CA	90804	estimating@newmanmidland.com	562-494-1773	
3/26/2026 10:22	PCN3, Inc.	Brian Abghari	10591 Humbolt Street Unit A		Los Alamitos	CA	90720	estimating@pcn3.com	562-493-4124	562-493-4129
3/24/2026 15:35	Painting & Decor, Inc.	John Buchner	1210 N Jefferson St, Ste K		Anaheim	CA	92807-1630	contact@paintinganddecor.com	949-888-2565	949-888-2566
4/20/2026 15:14	Precision Environmental	Jessica Salazar	4350 Transport Street, Suite #109		Ventura	CA	93003	bids@precisionenv.com	949-821-6644	
3/27/2026 7:12	ProWest Constructors	Aubrie Gray	22710 Palomar Street		Wildomar	CA	92595	agray@goprowest.com	951-678-1038	
3/31/2026 9:15	Shanks Construction LLC	Shawn Shanks	116 Chisholm Trail		Redlands	CA	92373	estimating@shanksconstruction.net	909-633-3708	
3/20/2026 9:06	Sudweeks Construction Inc	John Sudweeks	24370 Canyon Lake Dr N #10		Canyon Lake	CA	92587	sudweeksconstruction@gmail.com	951-259-8383	
4/15/2026 11:25	Urban Professional Inc	Colton Khalil	157 El Nido Ave		Pasdena	CA	91107	colton.khalil@urbanbuilders.com	310-498-6348	
3/24/2026 8:13	Valley Cities Gonzales Fence Inc.	David Gonzales	1338 6th street		Norco	CA	92860	frontdeskvcf@gmail.com	951-735-1145	
3/20/2026 12:31	Weatherite Corporation	Kathleen Beckley	21211 Commerce Pointe Dr		Walnut	CA	91789	kathleen@weatherite.com	909-598-8900	
3/13/2026 10:02	dalke and sons construction	Barry Dalke	4585 allstate drive		riverside	CA	92501	barry@dalkeandsons.com	951-274-9880	951-274-0319