BID/ RFP ADDENDUM No.2
DATE: 08/16/2023
BID/RFP No: 2022-19
BID NAME: Vocational Building Remodel

MERCED COMMUNITY COLLEGE DISTRICT
Chuck Hergenraeder
Director, Purchasing and Risk Management
3600 M Street, Merced, California 95348-2898

ADDENDUM 2

This addendum contains clarification and additional information, which modifies the conditions of the above referenced BID/RFP as follows:

- Please see attached

SPECIAL NOTE:

It is the responsibility of each Bidder to acknowledge all addenda by signing below and submitting a copy of each addendum with their respective bid.

I HAVE READ AND UNDERSTAND THESE MODIFICATIONS TO THE ABOVE BID:

_____

(Sign name and title)

All other bidding contract and construction drawing documents, stipulations, dated and times remain unchanged, in full effect and by reference become a part of this addendum.

darden
architects

6790 N. West Avenue
Fresno, California 93711
Tel: 559.448.8051
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www.dardenarchitects.com

ADDENDUM NO. 02 **DATE: 08/16/2023**

PROJECT:
CAREER TECHNICAL EDUCATION BUILDING RENOVATION
Merced, CA

OWNER:
MERCED COMMUNITY COLLEGE DISTRICT
3600 M Street
Merced, CA 95348

ARCHITECT:
DARDEN ARCHITECTS, INC.
Attention:
6790 N. West Avenue
Fresno, California 93711
T. (559) 448-8051
F. (559) 446-1765

DARDEN PROJECT NO. 2024
DSA FILE NO. 24-C1
DSA APPL. NO. 02-120559
FEDERAL AWARD (EDA) ID NO. 07 01 07748

It will be the responsibility of the General Contractor to submit the information contained in this addendum to all its subcontractors and suppliers. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

The following additions, deletions, and revisions to the SHEETS and Project Manual are hereby made and do become a part of these Contract Documents.

INDEX OF ADDENDA TRANSMITTED HEREWITH

PROJECT MANUAL:

SPECIFICATIONS:

SHEETS:

CHANGES TO SHEETS:

ATTACHMENTS:

DOCUMENTS OR SPECIFICATIONS:

SHEETS:

PROJECT MANUAL:

BIDDING AND CONTRACT REQUIREMENTS:

CHANGES TO CONDITIONS OF THE CONTRACT:

AD2-CCC01 Refer to MERCED COLLEGE FRONT-END BID DOCUMENTS, SPECIAL CONDITIONS:

1. Revise section 5. Contract Time: to read as follows "The Contractor shall achieve One Hundred Percent (100%) Completion of the Work within Four Hundred and Thirty-Nine (439) calendar days after the date for commencement of the work set - forth in the Notice to Proceed. Project must be completed by December 8, 2024."

SPECIFICATIONS:

CHANGES TO SPECIFICATIONS:

AD2-SP01 Refer to Specification Section 075316.26, ELASTOMERIC MEMBRANE ROOFING:

1. Omit Section.

AD2-SP02 Refer to Specification Section 015000, TEMPORARY FACILITIES AND CONTROLS:

1. As an appendix to the section, insert attached drawing sheet SA-01 CONSTRUCTION SITE ACCESS PLAN with AD2 in the upper -hand corner.

a. Appendix drawing indicates the Owner's requirements for contractor site staging, parking, and Owner access around the site during Construction. Requirements included are in addition to those stated within the TEMPORARY FACILTIES AND CONTROLS SPECIFICATIONS SECTION.

AD2-SP03 Refer to Specification Section 061000, ROUGH CARPENTRY:

1. Refer to 2.4, B:
   a. Revise "…G60 Coating Designation for hot dipped…" to read as "…G90 Coating Designation for hot dipped…".
   b. Insert the following Subparagraph 1:
      1. Metal Framing Anchors for preservative-treated wood or fire-retardant treated wood shall conform to ASTM A653, Type G185 zinc-coated galvanized steel."

SHEETS:

CHANGES TO SHEETS:

ARCHITECTURAL:

AD2-A01 **Refer to Sheet SD/A101, DEMOLITION SITE PLAN:**

1. Replace sheet with attached sheet SD/A101, DEMOLITION SITE PLAN with AD2-AX01 in the lower right corner. Changes are in the clouded area(s).

AD2-A02 **Refer to Sheet SD/A102, SITE PLAN:**

1. Replace sheet with attached sheet SD/A102, SITE PLAN with AD2-AX02 in the lower right corner. Changes are in the clouded area(s).

AD2-A03 **Refer to Sheet A/A001, DEMOLITION FLOOR PLAN – FIRST FLOOR:**

2. Replace sheet with attached sheet A/A001, DEMOLITION FLOOR PLAN – FIRST FLOOR with AD2-AX03 in the lower right corner. Changes are in the clouded area(s).

AD2-A04 **Refer to Sheet A/A003, DEMOLITION REFELECTED CEILING PLAN – FIRST FLOOR:**

1. Replace sheet with attached sheet A/A003 DEMOLITION REFELECTED CEILING PLAN – FIRST FLOOR with AD2-AX04 in the lower right corner. Changes are in the clouded area(s).

AD2-A05 **Refer to Sheet A/A005, DEMOLITION ROOF PLAN:**

1. Replace sheet with attached sheet A/A005 DEMOLITION ROOF PLAN with AD2-AX05 in the lower right corner. Changes are in the clouded area(s).

AD2-A06 **Refer to Sheet A/A101, FLOOR PLAN – FIRST FLOOR:**

1. Replace sheet with attached sheet A/A101 FLOOR PLAN – FIRST FLOOR with AD2-AX06 in the lower right corner. Changes are in the clouded area(s).

AD2-A07 **Refer to Sheet A/A201, REFLECTED CEILING PLAN – FIRST FLOOR:**

1. Replace sheet with attached sheet A/A201 REFLECTED CEILING PLAN – FIRST FLOOR with AD2-AX07 in the lower right corner. Changes are in the clouded area(s).

AD2-A08 **Refer to Sheet A/A301, ROOF PLAN:**

1. Replace sheet with attached sheet A/A301 ROOF PLAN with AD2-AX08 in the lower right corner. Changes are in the clouded area(s).

AD2-A09 **Refer to Sheet A/A606, INTERIOR ELEVATIONS – ROOMS 130-132:**

2. Replace sheet with attached sheet A/A606 INTERIOR ELEVATIONS – ROOMS 130 -132 with AD2-AX09 in the lower right corner. Changes are in the clouded area(s).

STRUCTURAL:

AD2-S01 **Refer to Sheet S303, ROOF FRAMING PLAN:**

1. Replace sheet with attached sheet S303 ROOF FRAMING PLAN with AD2-SX01 in the lower right corner. Changes are in the clouded area(s).

AD2-S02 **Refer to Sheet S304, PARTIAL ROOF FRAMING PLAN:**

1. Replace sheet with attached sheet S304 PARTIAL ROOF FRAMING PLAN with AD2-SX02 in the lower right corner. Changes are in the clouded area(s).

MECHANICAL:

AD2-M01 **Refer to Sheet X/M102, MECHANICAL SCHEDULES:**

2. Replace sheet with attached sheet X/M102 MECHANICAL SCHEDULES with AD2-MX01 in the lower right corner. Changes are in the clouded area(s).

AD2-M02 **Refer to Sheet A/M101, MECHANICAL PLAN – FIRST FLOOR:**

1. Replace sheet with attached sheet A/M101, MECHANICAL PLAN – FIRST FLOOR with AD2-MX02 in the lower right corner. Changes are in the clouded area(s).

AD2-M03 **Refer to Sheet A/M102, MECHANICAL PLAN – SECOND FLOOR:**

1. Replace sheet with attached sheet A/M102 MECHANICAL PLAN – SECOND FLOOR with AD2-MX03 in the lower right corner. Changes are in the clouded area(s).

AD2-M04 **Refer to Sheet A/M201, FIRST FLOOR HYDRONIC PIPING PLAN:**

1. Replace sheet with attached sheet A/M201 FIRST FLOOR HYDRONIC PIPING PLAN with AD2-MX04 in the lower right corner. Changes are in the clouded area(s).

AD2-M05 **Refer to Sheet A/M202, SECOND FLOOR HYDRONIC PIPING:**

1. Replace sheet with attached sheet A/M202 SECOND FLOOR HYDRONIC PIPING with AD2-MX05 in the lower right corner. Changes are in the clouded area(s).

AD2-M06 **Refer to Sheet A/M301, MECHANICAL ROOF PLAN:**

1. Replace sheet with attached sheet A/M301 MECHANICAL ROOF PLAN with AD2-MX06 in the lower right corner. Changes are in the clouded area(s).

PLUMBING:

AD2-P01 **Refer to Sheet A/P001, PLUMBING DEMOLITION PLAN – FIRST FLOOR:**

1. Replace sheet with attached sheet A/P001 PLUMBING DEMOLITION PLAN – FIRST FLOOR with AD2-PX01 in the lower right corner. Changes are in the clouded area(s).

AD2-P02 **Refer to Sheet A/P101, PLUMBING PLAN – FIRST FLOOR:**

1. Replace sheet with attached sheet A/P101 PLUMBING PLAN – FIRST FLOOR with AD2-PX02 in the lower right corner. Changes are in the clouded area(s).

FIRE PROTECTION:

AD2-F01 Refer to Sheet X/FS102, FIRE PROTECTION DETAILS:

1. Replace sheet with attached sheet X/FS102 FIRE PROTECTION DETAILS with AD2-FSX01 in the lower right corner. Changes are in the clouded area(s).

AD2-F02 Refer to Sheet A/FS100, OVERALL FIRE SPRINKLER PLAN – FIRST FLOOR:

1. Replace sheet with attached sheet A/FS100 OVERALL FIRE SPRINKLER PLAN – FIRST FLOOR with AD2-FSX02 in the lower right corner. Changes are in the clouded area(s).

AD2-F03 Refer to Sheet A/FS104, ENLARGED FIRE PLAN – FIRST FLOOR:

1. Replace sheet with attached sheet A/FS104 ENLARGED FIRE PLAN – FIRST FLOOR with AD2-FSX03 in the lower right corner. Changes are in the clouded area(s).

END OF ADDENDUM NO. 02

SECTION 32 11 26 - AGGREGATE BASE COURSE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes the following:

1. Provide all material, labor, equipment and services necessary to install aggregate base surfacing as indicated by the Contract Documents.

1.3 RELATED SECTIONS

A. All Division 00 Specification Sections
B. All Division 01 Specification Sections
C. Section 32 12 16 – Soil Sterilization.
D. Section 32 12 17 – Asphalt Paving.

1.4 REFERENCES

A. SSCDOT - Standard Specifications, Department of Transportation, State of California (Caltrans), latest edition, except for references to method of payment, and references to any state furnished materials

1.5 QUALITY ASSURANCE

A. Provide and install in accordance with SSCDOT.

1.6 SUBMITTALS

A. Submit data sheets from supplier to document compliance with SSCDOT requirements.

B. Certificates of compliance for material.

C. Load tags for delivered material.

1.7 COORDINATION

A. Coordinate with other work, including subgrade preparation and soil sterilization.

B. Coordinate installation schedule with Owner's use of the premises and with other contractors working at the site.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Aggregate Base: Unless specified otherwise on Plans, Class 2, 3/4 Inch Maximum per Section 26 of SSCDOT.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify quantities required.

B. Verify that subgrade has been placed and compacted per Contract Documents

C. Verify gradients and elevations of subgrade are correct.

3.2 INSTALLATION OF AGGREGATE BASE COURSE

A. Install in conformance with SSCDOT Section 26, Aggregate Bases.

B. Thickness - As shown on construction drawings.

C. Spreading and Compacting - In accordance with Section 26, SSCDOT. Base course shall be moisture conditioned to within 2% of optimum moisture, placed in uncompacted layers not exceeding six (6) inches in thickness, and compacted as specified, based on ASTM Test Method D1557. The relative compaction of each layer of compacted base material shall be not less than 95 percent.

D. The completed surface shall be thoroughly compacted, free from ruts, depressions, and irregularities, true to grade and cross-section.

E. Lines and grades for the installation of aggregate base shall be set by a California licensed Land Surveyor or Civil Engineer, at Contractor's expense.

3.3 TOLERANCES

A. Compacted thickness of aggregate base: Not less than the thickness specified on the Plans.

B. Finished Surface: Within 0.02 foot of planned grade per Section 26, SSCDOT. No more than 50% of the finish surface shall be above or below the specified grade for aggregate base.

3.4 FIELD QUALITY CONTROL

A. Field inspection and testing will be performed by the Owner's inspector, under provisions of Division 01.

3.5 PROTECTION

A. Immediately after placement and compaction, protect surface from mechanical injury.

B. Protect completed surface until surfacing layers are in place.

END OF SECTION

SECTION 32 12 16 - SOIL STERILIZATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SECTION INCLUDES

A. Furnish and install soil sterilant under all asphalt paving.

1.3 RELATED SECTIONS

A. Section 32 12 17 – Asphalt Paving
B. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specifications sections, apply to the work of this section.

1.4 STANDARDS

A. In accordance with the following:

CCR-T21	California Code of Regulations, Title 21 Public Works.
CBC	California Building Code, California Code of Regulations, Title 24, Part 2, CCR-T24.
USDA	United States Department of Agriculture.
EPA	Environmental Protection Agency.
CR	City of Reedley all applicable Environmental Regulations and Standards.

1.5 QUALITY ASSURANCE

A. Provide licensed operator to apply soil sterilant.

B. All products shall comply with the current EPA laws at time of application. Should the products listed become unavailable because of changes in the law, submit substitute products for review by the Owner.

1.6 SUBMITTALS

A. Submit in accordance with Specification Section SUBMITTAL PROCEDURES.

B. Certificates of application.

C. Certificates of compliance for material.

1.7 COORDINATION

A. Coordinate with other work, including subgrade preparation.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Soil Sterilant: Bayer Oust XP, weed and grass preventer, or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that site is ready for application.

3.2 PREPARATION

A. Identify installation locations.

B. Employ equipment and methods appropriate to the work site.

3.3 APPLICATION

A. Thoroughly water soak surface to be treated. Avoid excessive water runoff.

B. Apply sterilant solution over surface to receive pavement or surfacing prior to the start of pavement or surfacing installation.

C. Apply in spray form, at rate as allowable by State of California and the manufacturer's recommended application rate.

D. Take all precautions to limit soil sterilant solution to areas immediately under proposed pavement or surfacing. Use shields as necessary, and do not apply under windy conditions.

3.4 FIELD QUALITY CONTROL

A. Field inspection will be performed under Specification Section QUALITY REQUIREMENTS.

END OF SECTION

SECTION 32 12 17 - ASPHALT PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes the following:
   1. Provide all material, labor, equipment and services necessary to completely install all pavement materials, accessories and other related items as required by the Contract Documents.

1.3 RELATED SECTIONS:

A. All Division 00 Specification Sections
B. All Division 01 Specification Sections
C. Section 32 12 16 - Soil Sterilization.

1.4 REFERENCES

A. SSCDOT - Standard Specifications, Department of Transportation, State of California (Caltrans), latest edition, except for references to method of payment, and references to any state furnished materials.

1.5 QUALITY ASSURANCE

A. Perform work in accordance with SSCDOT.

B. Mixing Plant: Conform to SSCDOT.

C. Installation Criteria: Asphalt concrete shall show no evidence of cracking, uneven settlement, improper drainage, or untoward junctions with adjoining or existing surfaces. Work displaying such conditions shall be corrected under the Contractor’s guarantee of all work.

1.6 SUBMITTALS

A. Submit under provisions of Division 01.

B. Mix design

C. Certificates of compliance for material.

D. Load tags for delivered material.

1.7 COORDINATION

A. Coordinate with other work, including subgrade preparation, aggregate base placement and soil sterilization.

1.8 ENVIRONMENTAL REQUIREMENTS

A. Do not place asphalt-concrete when atmosphere temperature is less than 50 degrees F, or surface is wet or frozen.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Paint Binder: In accordance with SSCDOT Section 94, Asphaltic Emulsions.

B. Asphalt-Concrete: Type A in accordance with Section 39, SSCDOT, ½ inch maximum aggregate (medium) as indicated on the Plans. The asphaltic concrete shall be compacted to an average relative compaction of 97 percent, with no single test value being below a relative compaction of 95 percent based on a 50 blow Marshall maximum density. Use asphalt binder performance grade PG 64-10.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify quantities required. New asphalt-concrete paving is required at all locations shown on the plans, and where existing asphalt-concrete paving to remain is removed or damaged by the Project excavation or related work.

B. Verify that subgrade or base material has been compacted to required relative compaction and is dry.

C. Verify gradients and elevations of base are correct.

D. Verify that subgrade or base material has been sterilized per Section 32 12 16 SOIL STERILIZATION

3.2 PREPARATION – PAINT BINDER

A. Apply paint binder to existing asphalt-concrete or concrete surfaces which will be in contact with asphalt-concrete surfacing.

B. Rate of application for all surfaces against which asphalt concrete is to be placed shall be no less than 0.02 and no more than 0.05 gallons per square yard. All vertical concrete surfaces which will be in contact with asphalt concrete surfacing and all areas now in place which will be covered with new surfacing materials and feathering operations shall be coated with a paint binder applied at the rate of 0.05 gallons per square yard.

3.3 INSTALLATION OF ASPHALTIC-CONCRETE

A. Install in conformance with SSCDOT Section 39, Asphalt-Concrete.

B. Thickness - As shown on construction plans. Where thickness exceeds 3 inches, place in no less than 2 layers with top layer no thicker than one inch. Asphaltic concrete shall be laid to the thickness designated on the Plans. The plan thickness is to be considered as a minimum thickness. The Contractor shall lay the asphaltic concrete to a depth required to insure that, after compaction, the in place compacted thickness is equal to or greater than the specified plan thickness.

C. The Contractor shall provide to the Engineer the truck delivery weight tags for the asphaltic concrete material. The quantity delivered shall be equal to or greater than the calculated in place quantity based on the specified thickness and area to be paved as designated on the construction plans and based on a unit density of the asphaltic concrete of 141 pounds per cubic feet.

D. Asphalt type: PG 64-10

E. Compaction Equipment - In accordance with Section 39, SSCDOT. At small difficult areas, equipment may be altered as approved by Engineer.

F. The completed surface shall be thoroughly compacted, free from ruts, depressions, and irregularities and to be true to grade and cross-section.

3.4 TOLERANCES –GENERAL

A. Finished Surface: within 0.02 foot of planned grade.

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

C. Scheduled Compacted Thickness: Not less than specified.

3.5 FIELD QUALITY CONTROL

A. Field inspection and testing will be performed under provisions of Division 01.

B. Pavement shall comply with the following:
   1. Water shall not be able to accumulate at any point and the surface shall be free to drain to drainage inlets or gutters.
   2. The paving contractor shall water flood the surface with the use of a water truck. If, after 30 minutes on a 70 degree F day, “bird baths” are evident in a depth more than 0.01 foot, the paving contractor and the Owner’s representative will determine the best method of correction.

3. A 10 foot straightedge shall be used to check for high spots and ridges. High spots and ridges out of compliance shall be reduced by a remedy determined by the paving contractor and the Owner's representative.

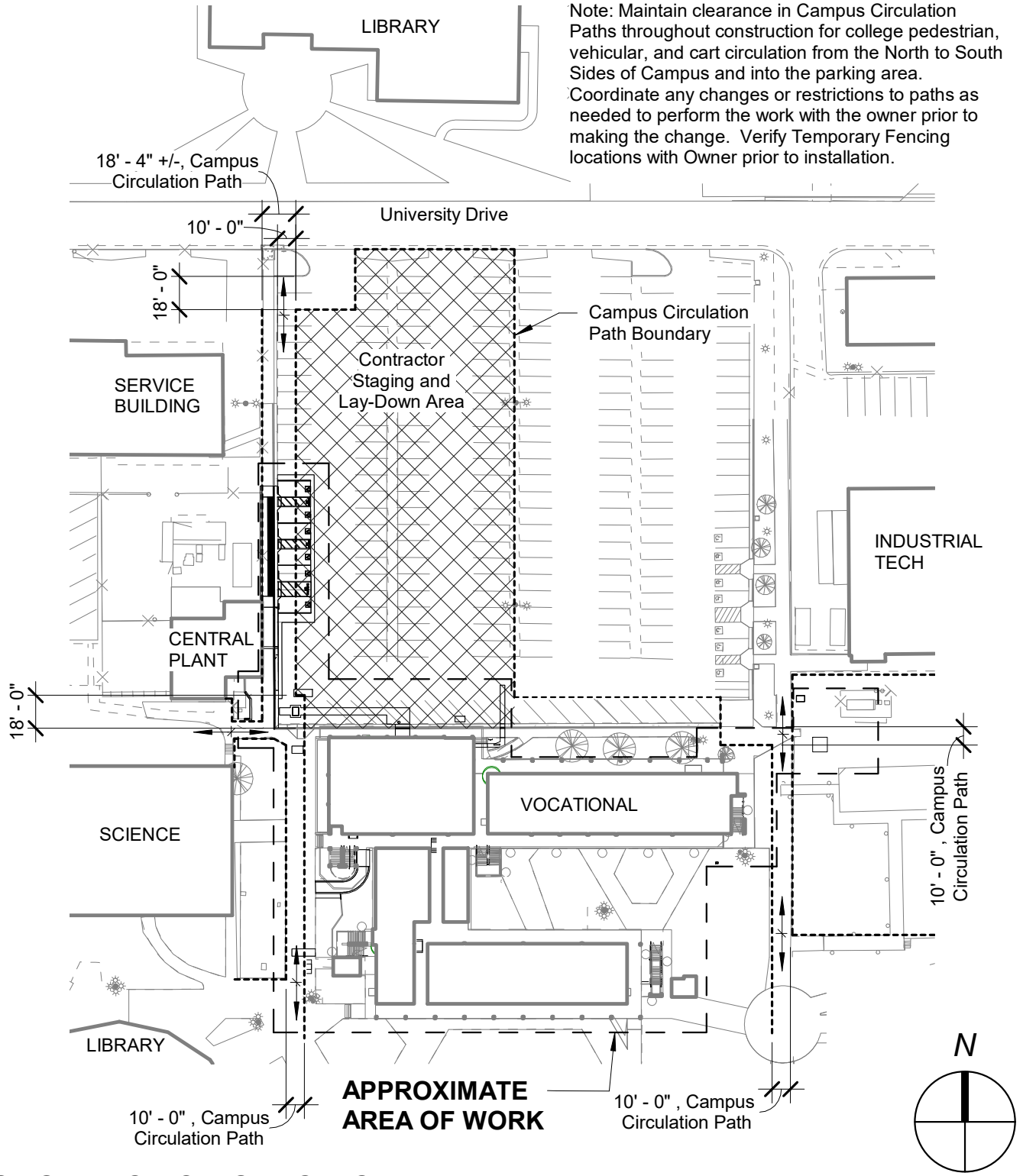
C. Should a section of the work be not acceptable on the basis of inadequate compaction and/or the mixture becomes loose and broken, mixed with dirt, out of tolerance, or in any other way defective, it shall be repaired or removed and replaced with fresh mixture and immediately compacted to conform to the surrounding area to the satisfaction of the Owner.

3.6 PROTECTION

A. Immediately after placement, protect pavement from mechanical injury.

B. Protect sealed surface until it is cured.

END OF SECTION



Note: Maintain clearance in Campus Circulation Paths throughout construction for college pedestrian, vehicular, and cart circulation from the North to South Sides of Campus and into the parking area. Coordinate any changes or restrictions to paths as needed to perform the work with the owner prior to making the change. Verify Temporary Fencing locations with Owner prior to installation.

CONSTRUCITON STAGING AREA PLAN

DSA File No: 24-C1
DSA Appl No: 02-120559

darden architects

ARCHITECTURE · PLANNING · INTERIORS

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Project No:	2024
Date:	08/03/2023
Scale:	1" = 80'-0"

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Career Technical Education Building Renovation
Merced College
3600 M St, Merced, CA 95348

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DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

SYMBOLS

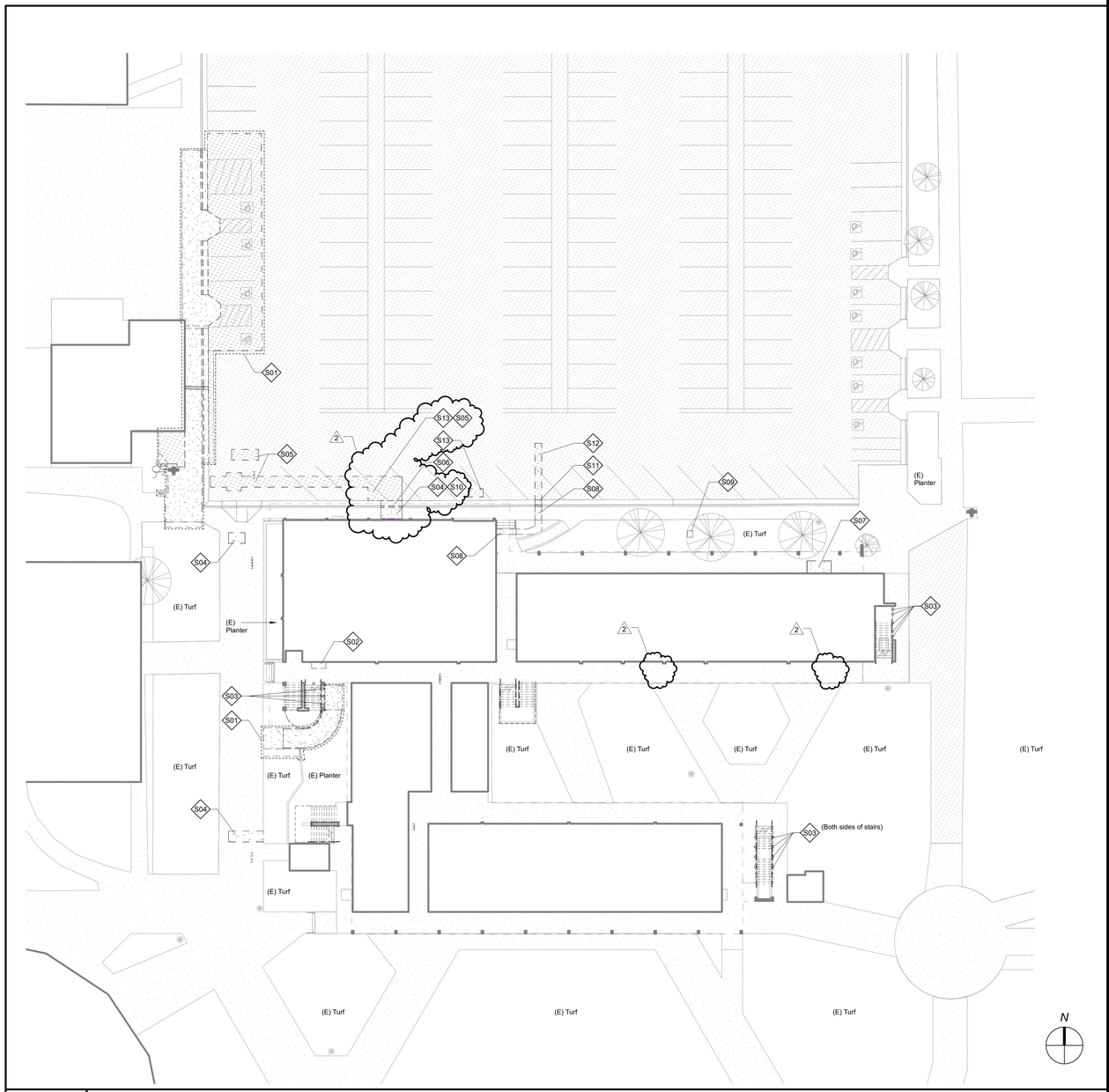
- SELECTIVE DEMOLITION, Existing Item and / or Area to be Removed and / or Relocated. (See Demolition Notes)
- SELECTIVE DEMOLITION, Sawcut, Remove and Dispose of Existing Concrete Paving (See Demolition Notes)
- Existing Concrete Paving
- SELECTIVE DEMOLITION, Remove and Dispose of Existing Asphalt Concrete Paving (See Demolition Notes)
- Existing Asphalt Concrete Paving
- SELECTIVE DEMOLITION, Remove and Dispose of Existing Underground Hydronic Piping, See Mechanical Drawings, Typical
- Existing Chain Link Fence
- Existing Tree
- SELECTIVE DEMOLITION, Remove Existing Tree (See Demolition Notes)
- F1 — Demolition Note Symbol
- L — Building Designation
- Existing Building

GENERAL NOTES

1. Refer to Mechanical, Electrial, Plumbing, and Fire SprinklerDrawings to Verify the Extent of the Demolition Requiredf for the Site development Scope of Work
2. Demolition to be in Compliance with the California Fire Code, Chapter 14 - Fire Safety During Construction and Demolition
3. Remove existing irrigation lines, heads and valves as required for new construction. The Contractor is responsible for field verification of the existing irrigation system within the new construction area and in providing all of what is required to amend and adjust the sprinkler system due to new improvements to provide a complete and operational system. Provide new sprinkler heads as required same as removed. The irrigation sytem shall remain in operation during construction
4. Refer to Topographic and Site Utility Surveys for Additional Information
5. Refer to Mechanical, Electrial, Plumbing, and Fire Sprinkler Drawings to verify the full extent of the Demolition and patch-back required for the Site development Scope of Work. All patch-back work for new pathways, connecitons, etc shall match the existing adjacent condition unless noted otherwise. Make repairs and adjustments to the existing irrigation system as required to restore the system from damage or alterations resulting from new work.
6. Size and locaiton of Mechanical, Electrial, Plumbing, and Fire Sprinkler demolition and patch-back, where shown in this plan, is conceptural and approximate. The exact quantity, location and depths of existing underground improvements is unknown. Verify and maintain existing utilities in service and protect them against damage during demolition and excavation operations.
7. Coordinate with Electrical Site Plan SD/E100 for demolition and patchback required for site electrical and lighting.

DEMOLITION NOTES

- S01 SELECTIVE DEMOLITION: Refer to Civil for scope of demolition and improvements for Accesibility improvements within area.
- S02 SELECTIVE DEMOLITION: Sawcut and remove concrete walk for new drinking fountain cane detection rail. Refer to Building Drawings.
- S03 SELECTIVE DEMOLITION: Sawcut and remove concrete walk for new stair cane detection rail. Refer to Building Drawings.
- S04 SELECTIVE DEMOLITION: Sawcut and remove concrete walk for underground hydronic piping work, See Mechanical .
- S05 SELECTIVE DEMOLITION: Sawcut and remove AC paving for underground hydronic piping work, See Mechanical .
- S06 SELECTIVE DEMOLITION: Sawcut and remove concrete curb gutter for underground hydronic piping work, See Mechanical .
- S07 SELECTIVE DEMOLITION: Sawcut and remove concrete walk for Electrical housekeeping pad. Refer to Electrical and Structural.
- S08 SELECTIVE DEMOLITION: Sawcut and remove concrete walk for new Fire Sprinkler Main. See Fire Protection Drawings.
- S09 SELECTIVE DEMOLITION: Remove gas regulator. See Plumbing drawings for requirements.
- S10 SELECTIVE DEMOLITION: Sawcut and remove concrete walk for underground Plumbing work, See Plumbing.
- S11 SELECTIVE DEMOLITION: Sawcut and remove concrete curb gutter for underground Fire Sprinkler piping work, See Fire Protection Drawings.
- S12 SELECTIVE DEMOLITION: Sawcut and remove AC paving for underground Fire Sprinkler piping work, See Fire Protection Drawings.
- S13 SELECTIVE DEMOLITION: Sawcut and remove AC Paving for underground Plumbing work, See Plumbing.



E18 — Demolition Site Plan Legend
No Scale

Career Technical Education Building Renovation
Merced College
3600 M St, Merced, CA 95348
Project

SITE DEVELOPMENT
DEMOLITION SITE PLAN
Drawing

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LICENSED ARCHITECT GRANT E. DODSON No. C-20,307 Exp. 6-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
2	Addendum No. 2	8/16/2023

Revision

A7 — Demolition Site Plan
1" = 20'-0"

Designed Designer
Drawn By: Author
Checked Checker
Reviewed Approver

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Scale: 1" = 20'-0"
Project Number: 2024
Date: 08/03/2023

SD/A101

AD2-AX01

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DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

SYMBOLS

Symbol	Description	Symbol	Description
	ASPHALT PAVING	386	Finish Grade Contour
	CAST-IN-PLACE CONCRETE	CB	STORM DRAINAGE, Catch Basin or Drain Box
	Existing AC Paving	DB	STORM DRAINAGE, Drain Box
	Existing Concrete Walk	DI	STORM DRAINAGE, Drain Inlet
	Building Outline	TD	STORM DRAINAGE, Trench Drain
	Property Line	FH	PLUMBING, Fire Hydrant
	Limits of Construction (Project Area)	FDC	PLUMBING, Fire Department Connection (Siamese)
X—X—X	Staging Fence (Project Area)	PIV	PLUMBING, Post Indicator Valve
	Pipe/Utility	CO	PLUMBING, Clean Out,
	Covered Area	CO	CIVIL, Sewer Clean Out,
1	PVC Irrigation Sleeve	SOV	PLUMBING, Shut Off Valve,
	Grade Break		ELECTRICAL, Pole Light Fixture,
	Existing		ELECTRICAL, Bollard Light Fixture,
	Drainage Swale		ELECTRICAL, Light Fixture, Directional
Slope (DN)	General Direction of Slope		ELECTRICAL & MECHANICAL, Utility Box
	ELECTRICAL, Existing Light Pole		

ABBREVIATIONS

(E)	Existing	FF	Finish Floor	PL	Planter
AC	Air Conditioning System	FG	Finish Grade	R	Radius
AD	Area Drain, (See Plumbing)	FL	Flow Line	RWL	Rain Water Leader
BW	Back of Walk	FMFCD	Fresno Metropolitan Flood Control District	SD	Storm Drain
C	Concrete	FS	Floor Sink	SL	Site Lighting
CB	Catch Basin	G	Gas	S	Signal
CJ	Control Joint	GT	Gutter	SS	Sanitary Sewer
CM	Communications	GB	Grade Break	TB	Top of Bench
COB	Clean Out Box	RG	Rough Grade	TC	Top of Curb
CW	Cold Water	HPG	High Pressure Gas	TD	Trench Drain
DB	Drain Box	HL	Hydronics Line	TG	Top of Grate
DI	Drain Inlet	INV N	Invert North	TF	Top of Fence
DS	Drainage Swale	INV NE	Invert Northeast	TL	Top of Lid
DW	Dry Well	MH	Manhole	TLB	Top of Light Base
EMS	Energy Management System	MS	Mow Strip	TW	Top of Wall
E	Electrical Power	OC	On Center	Typ.	Typical
EJ	Expansion Joint, 1/2"	P	Pavement	UNO	Unless Noted Otherwise
F	Fire Protection	PB	Electrical Pull Box	VG	Valley Gutter
FD	Floor Drain	PIV	Post Indicator Valve	W	Waste
FDC	Fire Dept Connection				

NOTES

1) CAST-IN-PLACE CONCRETE, All Concrete Walk Joints Shall Be Expansion Joints unless otherwise noted. Provide Expansion Joints where walk abuts other site elements.

2) PLUMBING, See Plumbing Drawings

3) ELECTRICAL, See Electrical Drawings

4) LANDSCAPING, See Landscape and Irrigation Drawings

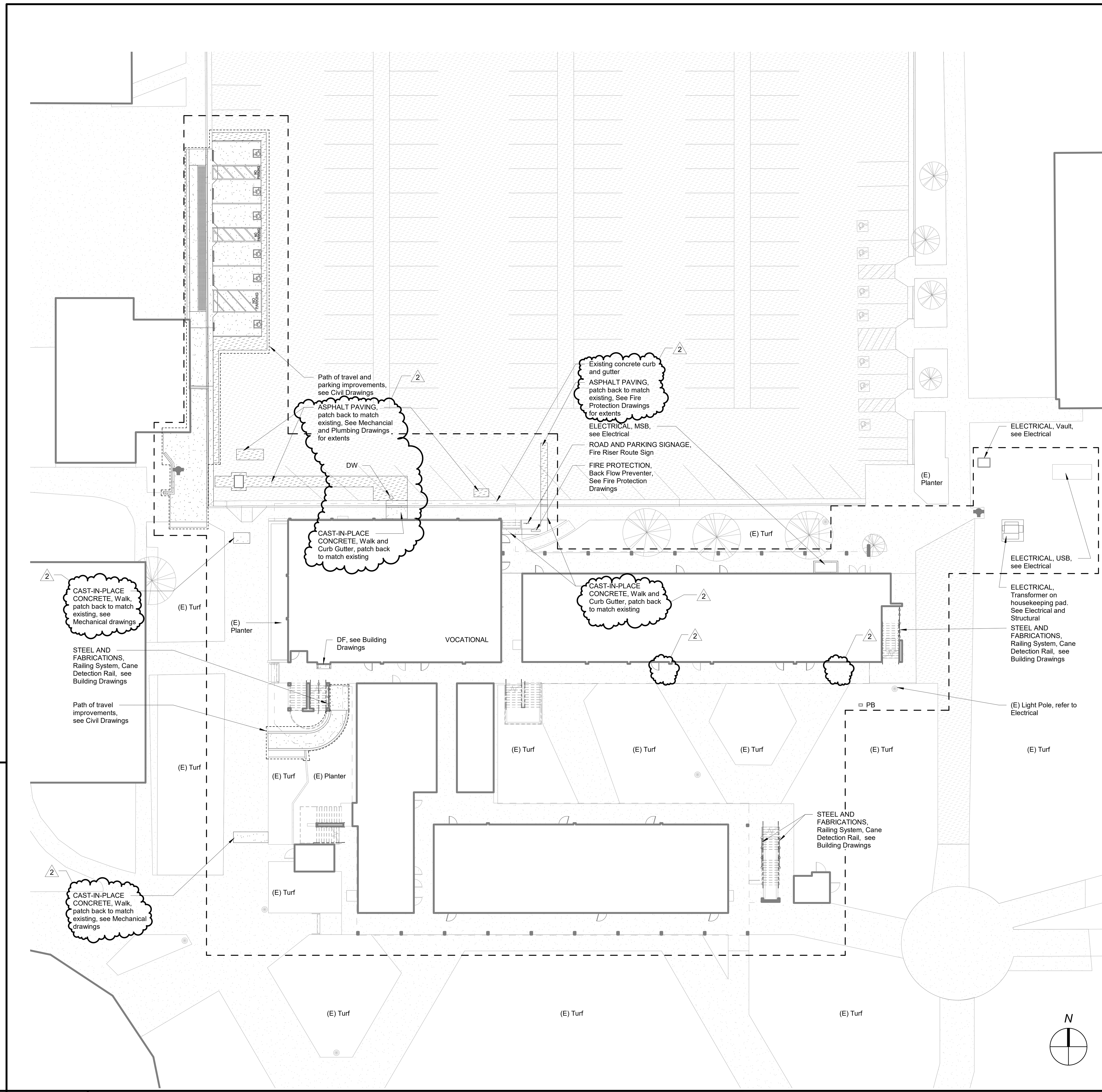
5) Refer to Civil for Vertical Controls and Grading

6) Refer to Mechanical, Electrial, Plumbing, and Fire Sprinkler Drawings to verify the full extent of the Demolition and patch-back required for the Site development Scope of Work. All patch-back work for new pathways, connecitons, etc shall match the existing adjacent condition unless noted otherwise. Make repairs and adjustments to the existing irrigation system as required to restore the system from damage or alterations resulting from new work.

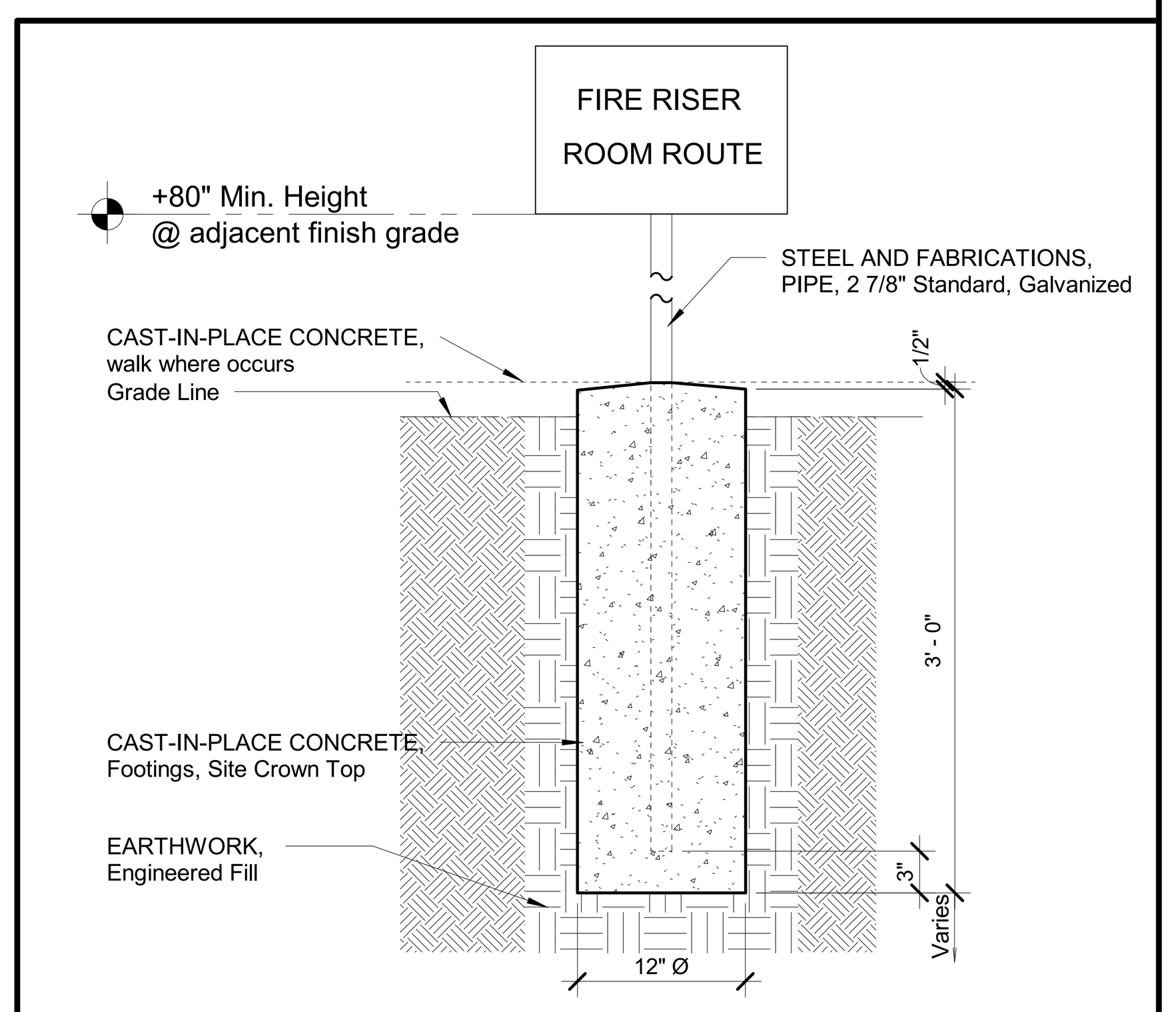
7) Size and locaiton of Mechanical, Electrial, Plumbing, and Fire Sprinkler demolition and patch-back, where shown in this plan, is conceptural and approximate. The exact quantity, location and depths of existing underground improvements is unknown. Verify and maintain existing utilities in service and protect them against damage during demolition and excavation operations.

8) Coordinate with Electrical Site Plan SD/E100 for demolition and patchback required for site electrical and lighting.

E18 — Site Plan Legend
No Scale



A7 — Site Plan
1" = 20'-0"



A4 — ROAD AND PARKING SIGNAGE, Fire Riser Room Route Sign
1" = 1'-0"

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SITE DEVELOPMENT
SITE PLAN

Drawing

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No.	Revision/Submission	Date
2	Addendum No. 2	8/16/2023

Revision

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Project Number: 2024	Checked By:	*SD/A102*
Date: 08/03/2023	Reviewed By:	

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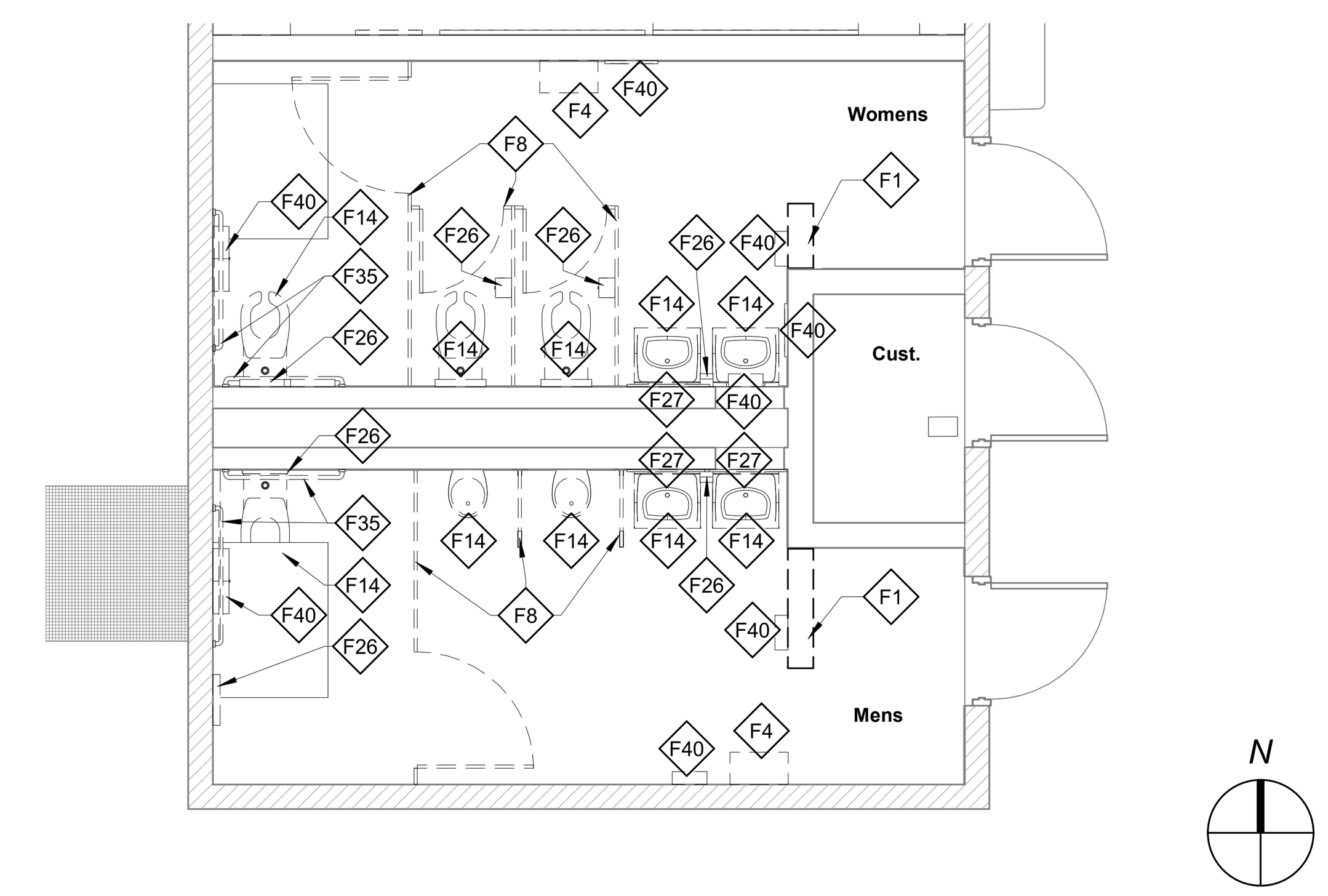


N13 — Demolition Floor Plan - First Floor Enlarged Restrooms
1/4" = 1'-0"
Refer to E18 for Demolition Floor Plan Legend

SYMBOLS

Existing Wall		Room 10	Existing Room Designation
Remove Existing Wall		10	Demolition Note Symbol
Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)			

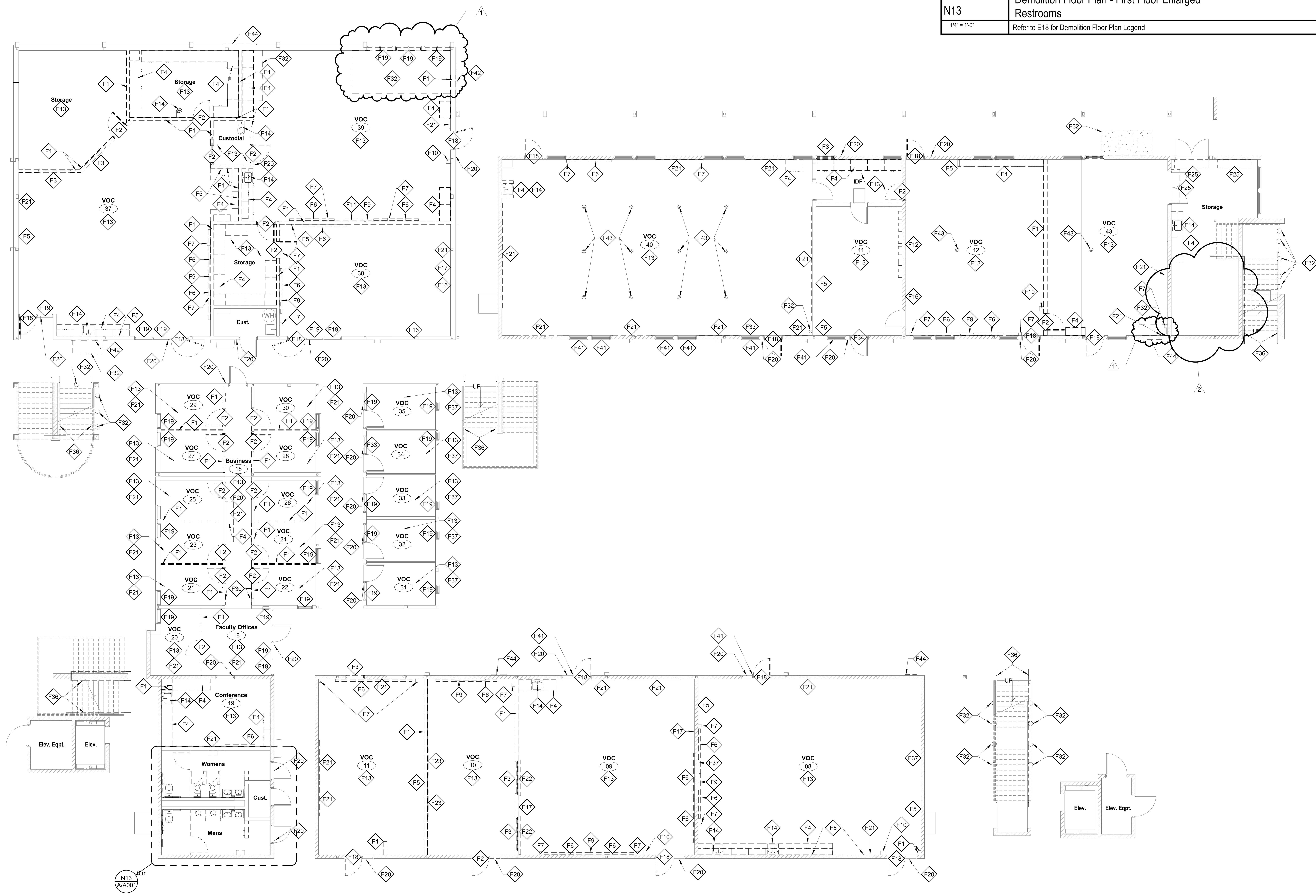
GENERAL NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. All Concrete removed shall be within sawcut lines or Existing expansion/ control joint lines.
4. Coordinate removal of door hardware with HARDWARE in the specifications.
5. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
6. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
7. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
8. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
9. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.

DEMOLITION NOTES

- F1 SELECTIVE DEMOLITION, Remove wall or portion of wall. Refer to Floor Plan for Extent.
- F2 SELECTIVE DEMOLITION, Remove door and frame
- F3 SELECTIVE DEMOLITION, Remove Windows and Frames
- F4 SELECTIVE DEMOLITION, Remove Casework
- F5 SELECTIVE DEMOLITION, Remove Surface Mounted Raceway
- F6 SELECTIVE DEMOLITION, Remove White Board
- F7 SELECTIVE DEMOLITION, Remove and Salvage to Owner Speakers
- F8 SELECTIVE DEMOLITION, Remove Toilet/Urinal Partitions
- F9 SELECTIVE DEMOLITION, Remove Projector Screen
- F10 SELECTIVE DEMOLITION, Remove and Salvage to Owner Wet Napkin Dispenser
- F11 SELECTIVE DEMOLITION, Remove and Salvage to Owner Smart Board
- F12 SELECTIVE DEMOLITION, Remove Wood Wall Paneling
- F13 SELECTIVE DEMOLITION, Remove Flooring and base
- F14 SELECTIVE DEMOLITION, Remove Plumbing. See PLUMBING for more information.
- F15 SELECTIVE DEMOLITION, Remove Jail Cell Door
- F16 SELECTIVE DEMOLITION, Remove Vinyl Wallcovering
- F17 SELECTIVE DEMOLITION, Remove Wall Mounted Light Fixture. See ELECTRICAL for more information
- F18 SELECTIVE DEMOLITION, Remove Door. Frame to remain.
- F19 SELECTIVE DEMOLITION, Remove window shades/blinds.
- F20 SELECTIVE DEMOLITION, Remove all signage, stickers, bronze sign frame and number plates from doors/frames
- F21 SELECTIVE DEMOLITION, Remove tackboard panels/framed tackboard
- F22 SELECTIVE DEMOLITION, Remove framed sliding tackboard
- F23 SELECTIVE DEMOLITION, Remove and Salvage to Owner Glass Markerboards
- F24 SELECTIVE DEMOLITION, Remove Retractable Map
- F25 SELECTIVE DEMOLITION, Remove Wood Shelf
- F26 SELECTIVE DEMOLITION, Remove and Salvage Surface Mounted Dispensing Toilet Accessories for Reinstallation
- F27 SELECTIVE DEMOLITION, Remove Mirror and Salvage to Owner
- F28 SELECTIVE DEMOLITION, Remove Surface Mounted Display Case
- F29 SELECTIVE DEMOLITION, Remove and Salvage to Owner Television
- F30 SELECTIVE DEMOLITION, Remove Electrical Panels. See ELECTRICAL for more Information.
- F31 SELECTIVE DEMOLITION, Remove and Salvage to Owner Server Rack.
- F32 SELECTIVE DEMOLITION, Sawcut and Remove portion of concrete floor or walk. Coordinate extents with new work.
- F33 SELECTIVE DEMOLITION, Remove hinged window cover
- F34 SELECTIVE DEMOLITION, Remove door closer
- F35 SELECTIVE DEMOLITION, Remove Grab Bars
- F36 SELECTIVE DEMOLITION, Remove and Replace Stair Hand Rails
- F37 SELECTIVE DEMOLITION, Remove tackboard/wallcovering panel except previously painted. Previously painted tackboard/wall covering to remain. All previously applied finishes over metal partition walls to remain, unless otherwise noted. Refer to Interior Finish Schedule for additional work.
- F38 SELECTIVE DEMOLITION, Remove Whiteboard Cabinet
- F39 SELECTIVE DEMOLITION, Remove Existing Wall Tile
- F40 SELECTIVE DEMOLITION, Remove and Salvage to Owner Dispensing Toilet Accessories
- F41 SELECTIVE DEMOLITION, Remove existing Asbestos Glazing Panel, coordinate extent of removal with New Work.
- F42 SELECTIVE DEMOLITION, Remove existing exterior finishes as necessary for new framing, coordinate with new work and Structural for extents.
- F43 SELECTIVE DEMOLITION, Remove existing electrical floor box, see Electrical
- F44 SELECTIVE DEMOLITION, Remove portion of wall for Mechancial. Refer to Structural and Mechanical for Requirements.
- F45 SELECTIVE DEMOLITION, Remove and Salvage for reinstallation fixed seating.

E18 — Demolition Floor Plan Legend
No Scale



A1 — Demolition Floor Plan - First Floor
1/8" = 1'-0"
Refer to E18 for Demolition Floor Plan Legend

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BUILDING
DEMOLITION FLOOR PLAN - FIRST FLOOR
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1	Addendum No. 1	7/14/2023
2	Addendum No. 2	8/16/2023

Revision

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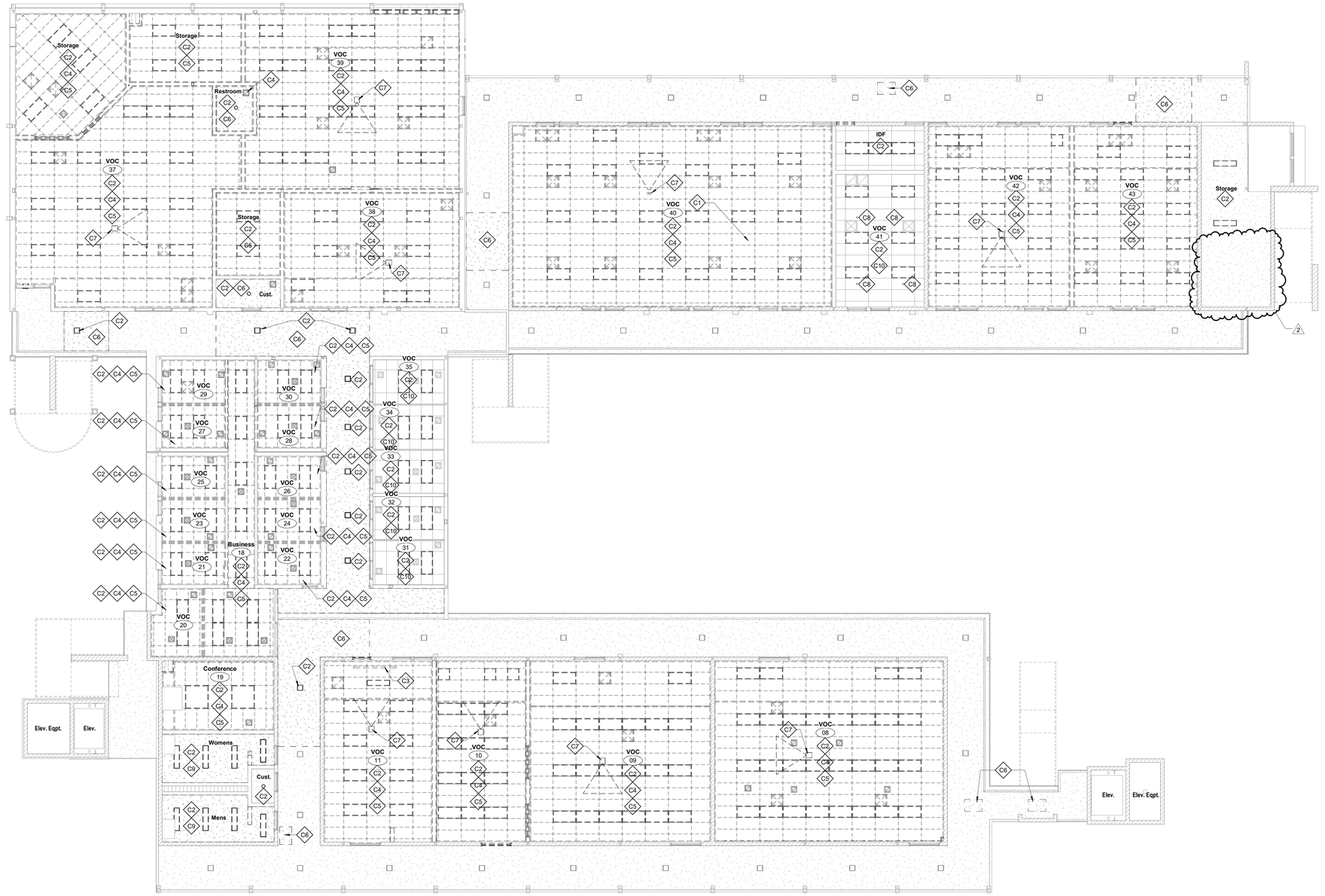

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- **Room Name** — Room Designation
- 10 — Demolition Note Symbol

GENERAL NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. All Concrete removed shall be within sawcut lines or Existing expansion/ control joint lines.
4. Coordinate removal of door hardware with HARDWARE in the specifications.
5. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
6. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
7. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
8. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
9. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.

DEMOLITION NOTES

- C1 — SELECTIVE DEMOLITION, Remove gypsum board ceiling and related wood framing. System located above ACT and below metal 2nd floor deck and steel structure.
- C2 — SELECTIVE DEMOLITION, Remove Light Fixture, Coordinate with Electrical Drawings
- C3 — SELECTIVE DEMOLITION, Remove and Salvage to Owner projector screen
- C4 — SELECTIVE DEMOLITION, Remove HVAC Grilles
- C5 — SELECTIVE DEMOLITION, Remove Suspended Ceiling System and Accessories. Salvage 10% of existing ceiling tiles back to the owner. Salvaged tiles to be free of damage and discoloration
- C6 — SELECTIVE DEMOLITION, Remove Cement Plaster Ceiling System and Accessories
- C7 — SELECTIVE DEMOLITION, Remove and Salvage existing ceiling mounted projector to owner
- C8 — SELECTIVE DEMOLITION, Coordinate sprinkler locations with FIRE PROTECTION
- C9 — SELECTIVE DEMOLITION, Remove cement plaster ceiling and related metal suspension framing.
- C10 — SELECTIVE DEMOLITION, Remove and Reinstall Acoustical Ceiling Tiles where necessary to perform fire sprinkler work, see FIRE PROTECTION
- C11 — SELECTIVE DEMOLITION, Remove Suspended Ceiling System and Accessories.

E18 — Demolition Reflected Ceiling Plan Legend
No Scale

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No.	Revision/Submission	Date
2	Addendum No. 2	8/16/2023

Revision

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Scale: 1/8" = 1'-0" Drawn By:
Project Number: 2024 Checked By:
Date: 07/14/2023 Reviewed By:

A/A003

A1 — Demolition Reflected Ceiling Plan - First Floor
1/8" = 1'-0"

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DSA File No.:
24-C1

DSA Application No.:
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SYMBOLS

Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)

R5 Demolition Note Symbol

GENERAL NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. All Concrete removed shall be within sawcut lines or Existing expansion/ control joint lines.
4. Coordinate removal of door hardware with HARDWARE in the specifications.
5. Where Demolition work is indicated, contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
6. Any damage resulting from the modernization activity shall be corrected at no additional expense to the owner and all surfaces cleaned and readied to receive new work.
7. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
8. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
9. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendation to the architect.

DEMOLITION NOTES

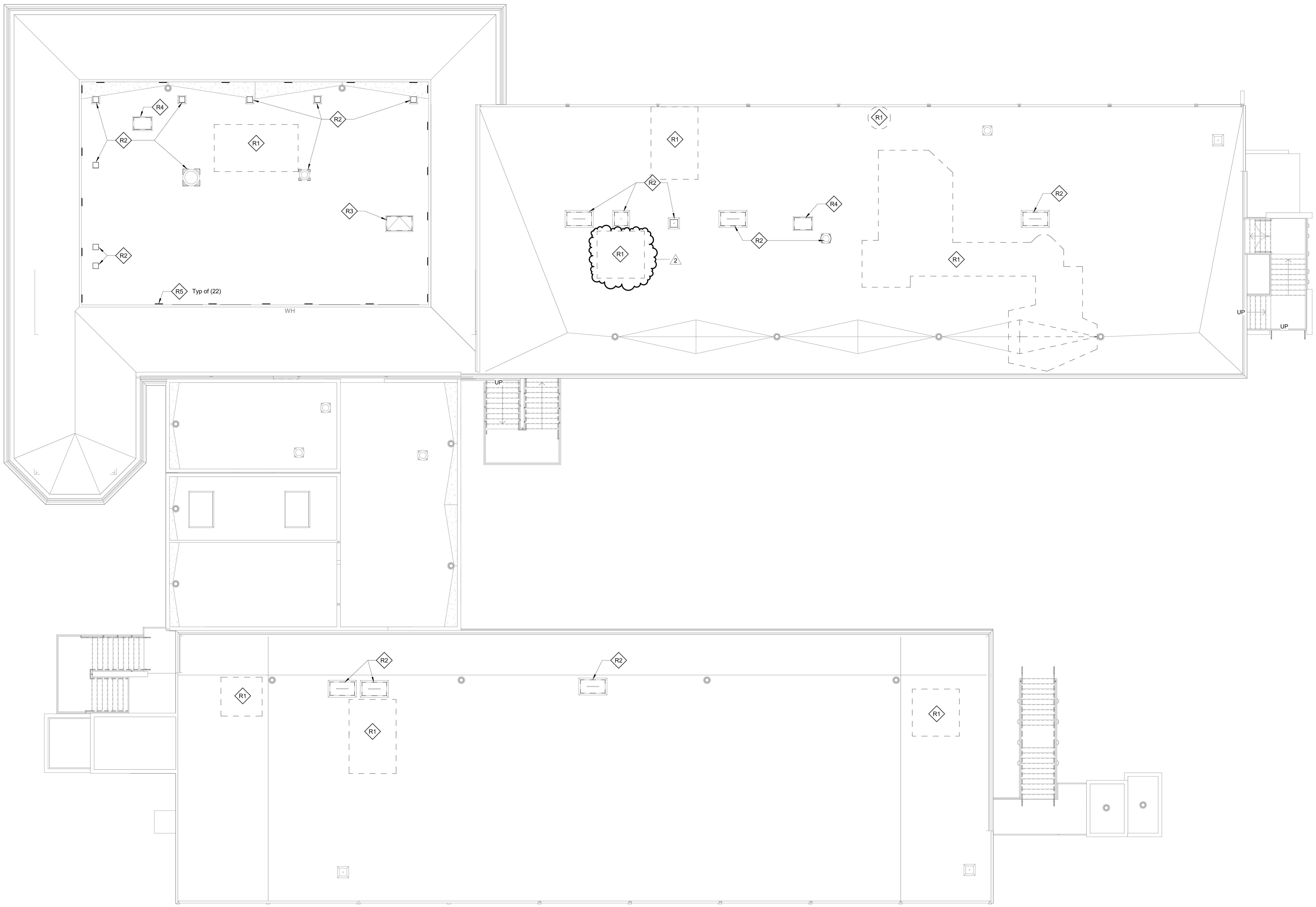
R1 SELECTIVE DEMOLITION,
Remove and dispose portion of existing roofing for new roof top equipment. See Mechanical, plumbing, Electrical and Structural for more information.

R2 SELECTIVE DEMOLITION,
Remove mechanical roof vent. Curb to remain.
See Mechanical for more information.

R3 SELECTIVE DEMOLITION,
Remove roof hatch. Curb to remain.

R4 SELECTIVE DEMOLITION,
Remove transformer and sheet metal cap.
Platform to remain .

R5 SELECTIVE DEMOLITION,
Remove portion of parapet roofing and sheathing between (E) studs for the installation of Insulation. Corrdinate with infill detail and verify (E) conditions



E18 Demolition Roof Plan Legend
No Scale

A1 Demolition Roof Plan
1/8" = 1'-0"

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BUILDING
DEMOLITION ROOF PLAN
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Architect [redacted]

No.	Revision/Submission	Date
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Revision [redacted]

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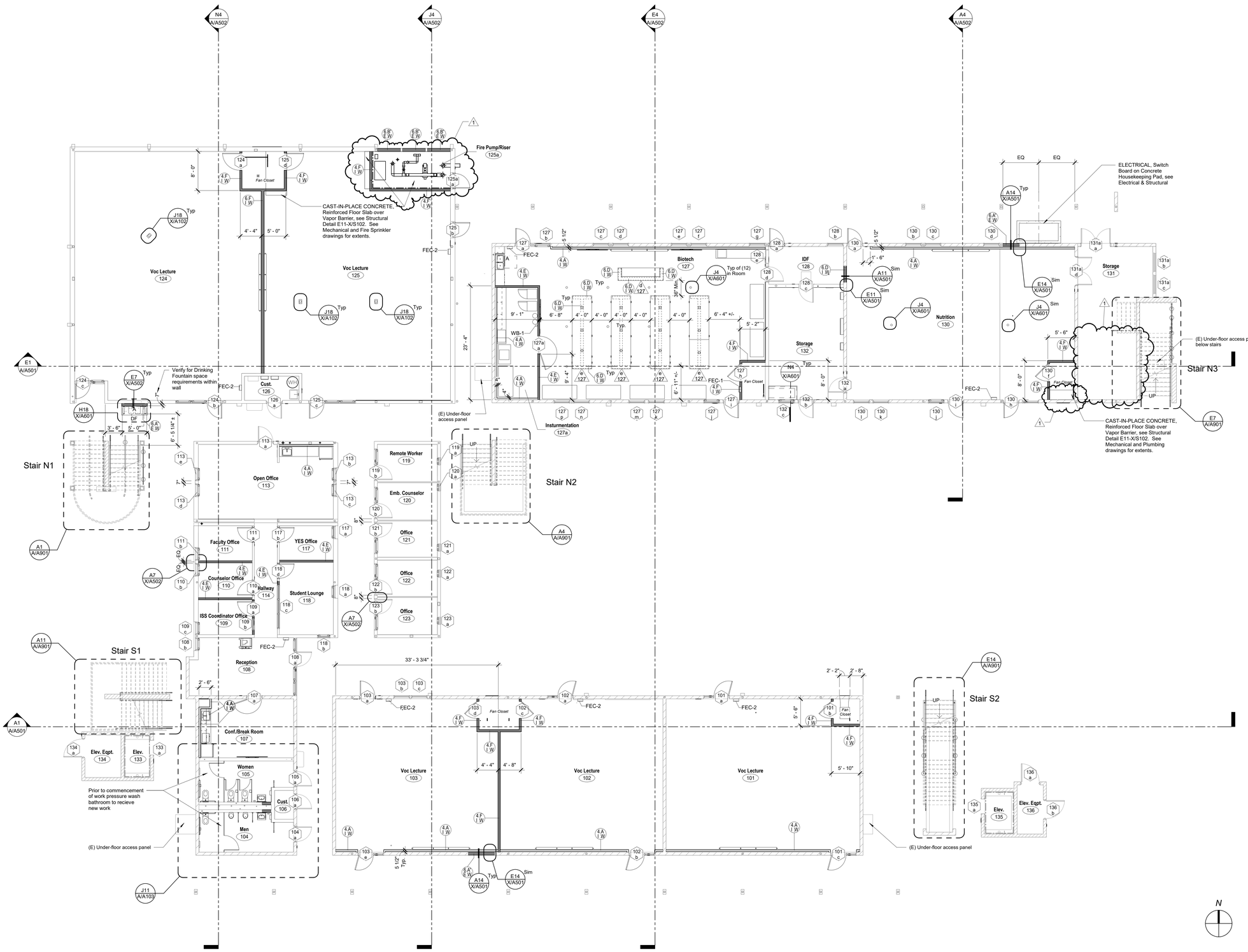

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

SYMBOLS

- Existing Wall to remain.
- Existing Concrete Masonry Unit Wall.
- Existing Concrete Wall, or Column.
- Stud Wall, Studs and Interior Wall materials continuous from floor to underside of floor, top of wall infill or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Deadening Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/ Ceramic Tile setting bed where occurs.
- Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16"o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- Existing 1 Hr. Fire Barrier
- 0 — Reference Grid
- 101 a — Opening Group No. Refer to Door or Window Opening Schedules
- Room name 101 — Room Designation
- a ### — Wall Assembly Symbols. Refer to Sheet X/A101
- Reference Point
- a ### — Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- Eq Mark — Equipment Item No. Refer to Equipment Schedules on Sheet A/A104
- ELECTRICAL, Floor Box, refer to Electrical Drawings

ABBREVIATIONS

FEBC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Type FEBC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls, See A1 X/A601 Typ
FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls, See A1 X/A601 Typ
DF	PLUMBING, Drinking Fountain
FF	Face of Finish
FOC	Face of Concrete
FD	Floor Drain
FOM	Face of Masonry
FOS	Face of Stud
FS	Floor Sink
HB	Hose Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
Typ.	Typical
Sim.	Similar
OH	Opposite Hand
WH	Water Heater
EQ.	Equal
(E)	Existing

NOTES

1. All Exterior Walls shall be Wall Assembly Type 6.B E.W Unless Noted Otherwise.
2. All Interior Walls shall be Wall Assembly Type 6.B I.W Unless Noted Otherwise.
3. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
4. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
5. Dimensions noted as "±" are nominal.
6. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
7. IDENTIFYING DEVICES, For Room Signage refer E11 X/A601 Typ to and Specifications
8. FIRE RESISTIVE ASSEMBLIES:
   a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.
   b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED, PROTECT ALL OPENINGS. Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.

E18 — Floor Plan Legend
No Scale

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No.	Revision/Submission	Date
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Revision

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A1 — Floor Plan - First Floor
1/8" = 1'-0"
Refer to E18 for Legend Symbols, Abbreviations and Notes

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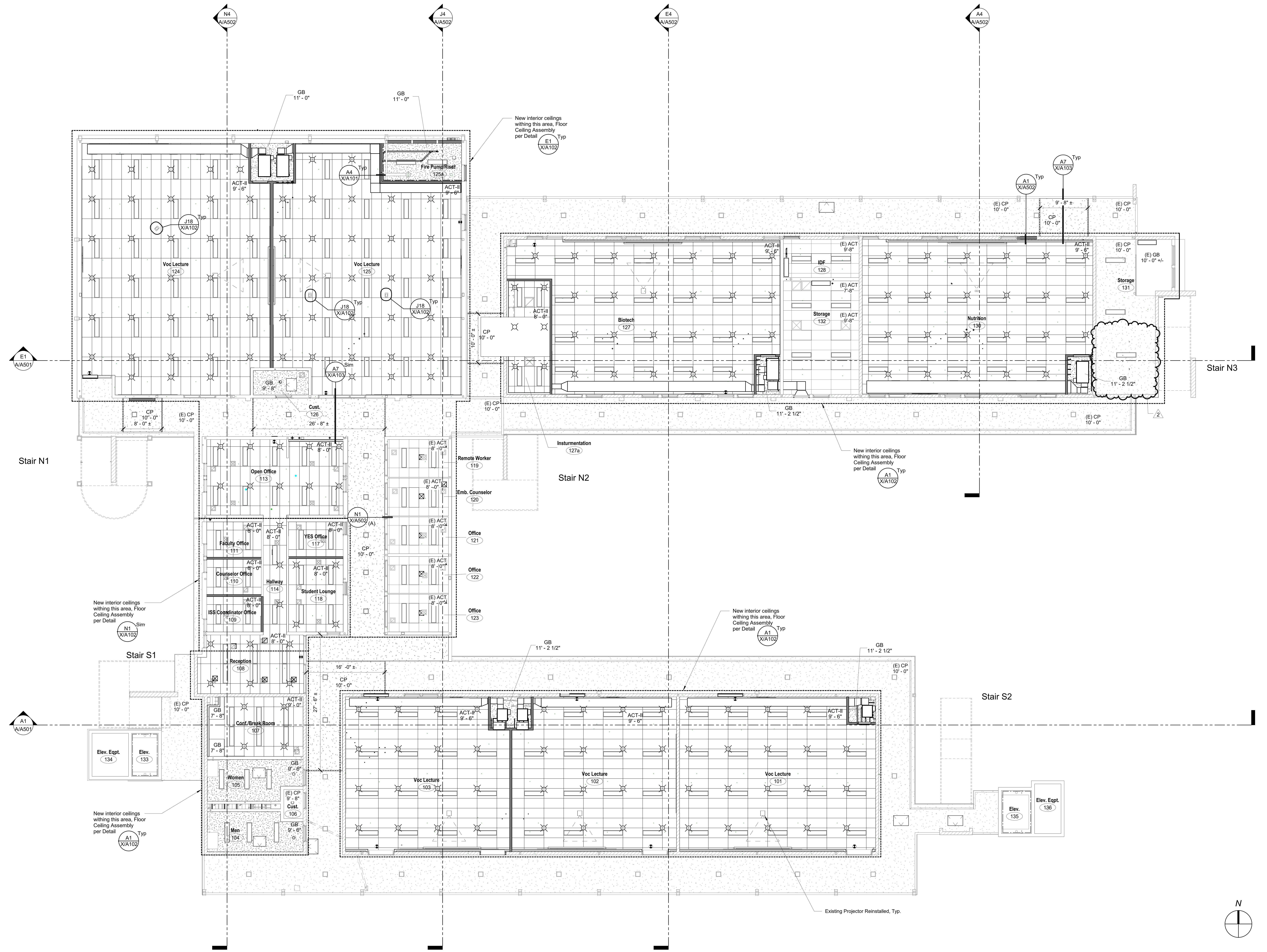

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

SYMBOLS

- MECHANICAL, Air Supply Grill
- MECHANICAL, Air Return Grill
- MECHANICAL, Strip Grill
- MECHANICAL, Exhaust Fan
- FIRE PROTECTION, Fire Sprinkler Head
- PLUMBING, Overflow Drain
- ACOUSTICAL CEILINGS, Suspended Ceiling Compression Strut/ Splay Wire location
- ROOF ACCESSORIES, Roof Hatch
- ELECTRICAL, Light Fixture, Surface Mounted, Unless Noted Otherwise. Install per Detail A7-X/A604 where occurs at ACT ceiling. (p) = Pendant Mounted (r) = Recessed
- ELECTRICAL, Fire Alarm Device, Heat Detector
- ELECTRICAL, Fire Alarm Device, Smoke Detector
- ELECTRICAL, Speaker
- Existing Cement Plaster System
- CEMENT PLASTER, System. Refer to Structural for METAL FRAMING
- GYPSUM BOARD, Refer to Interior Finish Schedule. Refer to J4 X/A602 Typ UNO
- ACOUSTICAL CEILINGS, Refer to Plan for Type.
- Existing Acoustical Ceilings
- PLUMBING, Roof Drain, Refer to Plumbing.
- ACCESS DOORS AND FRAMES, Access Doors, Ceiling, Fire Rated (24" X 36"), see Detail K1 X/A603 Typ
- ACCESS DOORS AND FRAMES, Access Doors, Ceiling, Fire Rated (12" X 18", UNO) Verify locations for clear opening and (E) furring and runner channels are not cut.
- OWNER FURNISHED ITEMS, Projector and Projector Support Panel, OFCI. Install per detail A1 X/A603 Typ
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- Existing 1 Hr. Fire Barrier

ABBREVIATIONS

ACT	ACOUSTICAL CEILINGS, Tile, Suspended, Unless Noted Otherwise.
CLG	Ceiling
CP	CEMENT PLASTER, System
(E)	Existing
GB	GYPSUM BOARD, Type 'X', Unless Noted Otherwise.
GLB	GLUE-LAMINATED CONSTRUCTION, Beam
HT	Height
MD	METAL DECK
TYP	Typical
SIM	Similar
OH	Opposite hand
DS	Downspout
OD	Overflow Drain
UNO	Unless Noted Otherwise

NOTES

1. ACOUSTICAL CEILINGS, For typical suspended ceiling support and bracing, Refer to A11 X/A602 Typ A7 X/A602 Typ
2. Gypsum Board Ceilings Noted As "CLG HT Varies", Gypsum Board is attached to bottom side of framing/ joists, UNO
3. Ceiling Heights indicated are above Finish Floor at each floor level, UNO.
4. Where Fire Sprinklers occur at Acoustic Tile, Sprinkler Heads shall be centered in the Tile.
5. Not all fire Sprinkler Head locations are shown to provide code required coverage. But locations shown are intended to convey design intent. Coordinate with FIRE PROTECTION.
6. See Structural for framing of soffits and ceilings
7. Single Lights or Single Rows of Lights at Soffits/ Ceilings shall be centered, UNO.

E18 Reflected Ceiling Legend
No Scale

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A/A201

A1 Reflected Ceiling Plan
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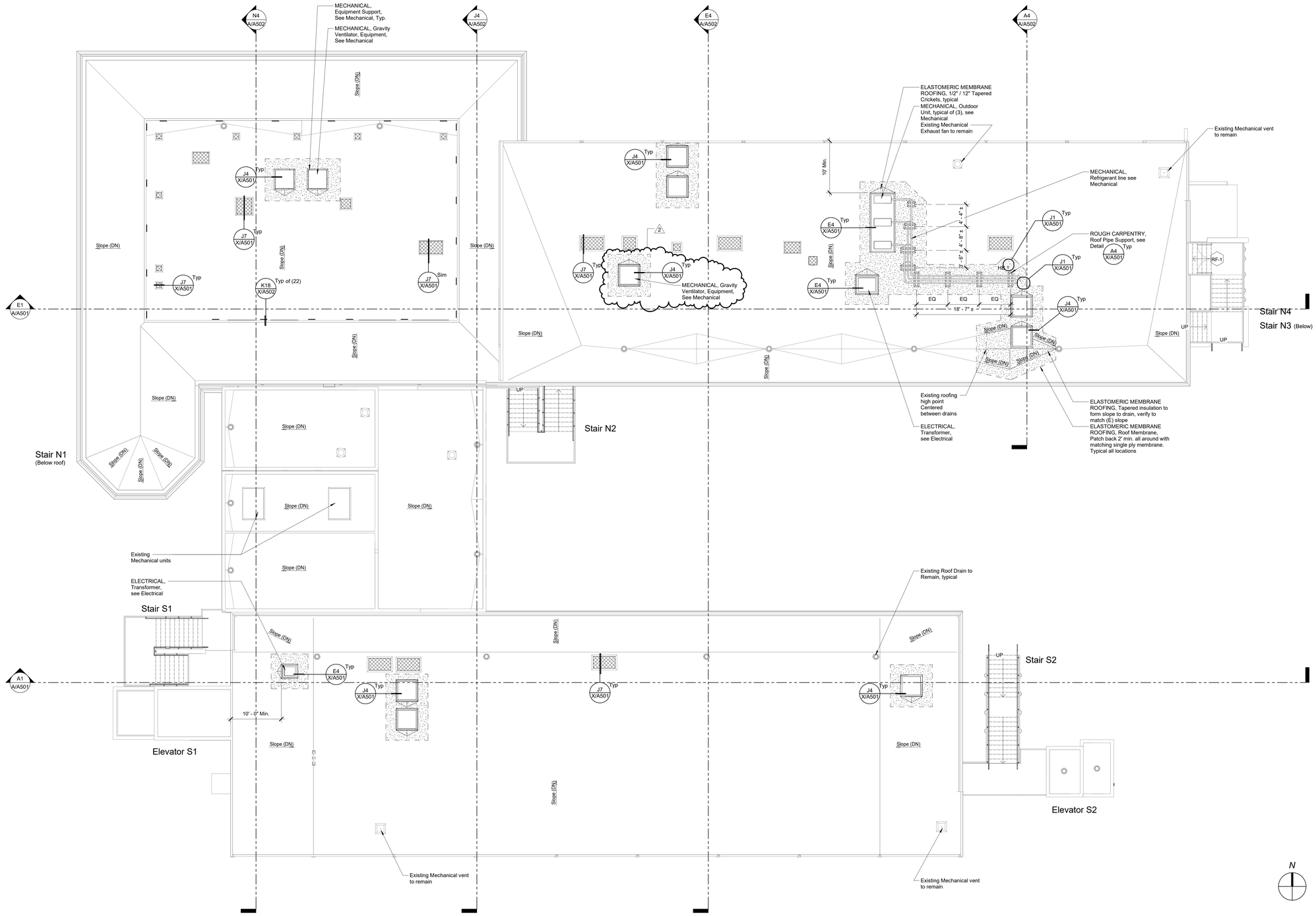

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

SYMBOLS

PV	PLUMBING, Vent
101 a	Opening Group No. Refer to Door or Window Opening Schedules
Slope (DN)	Direction of slope
	Line of Wall below

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
HB	PLUMBING, Hose Bib
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typical

NOTES

1. Refer to Plumbing, Mechanical, Telecommunications, and Electrical for all roof penetrations and roof mounted equipment. For appropriate details, Refer to Unless Otherwise Noted. J4 X/A501 Typ, J1 X/A501 Typ, E4 X/A501 Typ, A4 X/A501 Typ, N1 X/A501 Typ
2. Roof Slope and Crickets shall be constructed with tapered insulation to achieve slope as required.
3. OWNER FURNISHED ITEMS, ELASTOMERIC MEMBRANE ROOFING System patch work to be Owner Furnished, Vendor Installed. Roofing system includes roof cover board, cant strips, tapered Insulation crickets, membrane and top coating. All ROUGH CARPENTRY, ROOF ACCESSORIES, SHEET METAL, etc. are to be Contractor Furnished, Contractor Installed.

   Vendor installation of roofing system to be performed concurrently with the Contract. Cooperate and coordinate fully with Owner and Owner's vendor so work may be carried out smoothly, without interfering with or delaying work under this Contract or other contracts. Coordinate the work of this Contract with work performed under separate contracts.

   Contractor shall maintain responsibility for the protection of the building at uncovered roof areas from damage resulting from inclement weather or otherwise until turnover to the Owner's Vendor.

   Contractor shall coordinate with the Owner and the Owner's Vendor to confirm the schedule for the installation of the roofing system. Initial coordination shall occur following the submission of the Contractor's Initial Baseline Schedule. The installation schedule shall be confirmed no later than (30) Calendar Days prior to the date of installation unless otherwise agreed upon.

2

E18	Roof Plan Legend
No Scale	

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Architect

No.	Revision/Submission	Date
2	Addendum No. 2	8/16/2023

Revision

	Designed By:	Copyright 2023 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By:	*A/A301*
Project Number: 2024	Checked By:	
Date: 07/14/2023	Reviewed By:	

A1 — Roof Plan
1/8" = 1'-0"
Refer to E18 for Legend Symbols, Abbreviations and Notes

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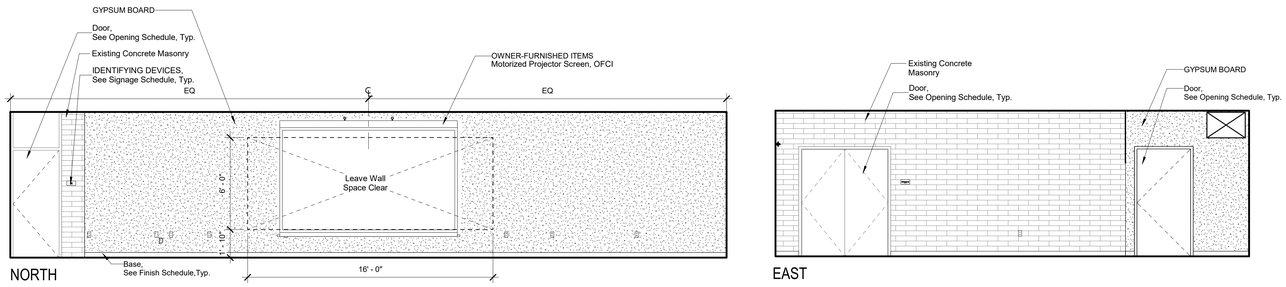
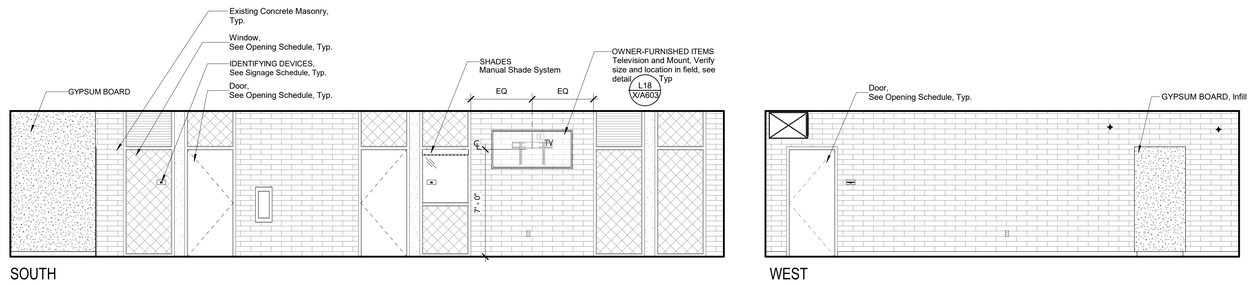


130 Nutrition



130 Nutrition
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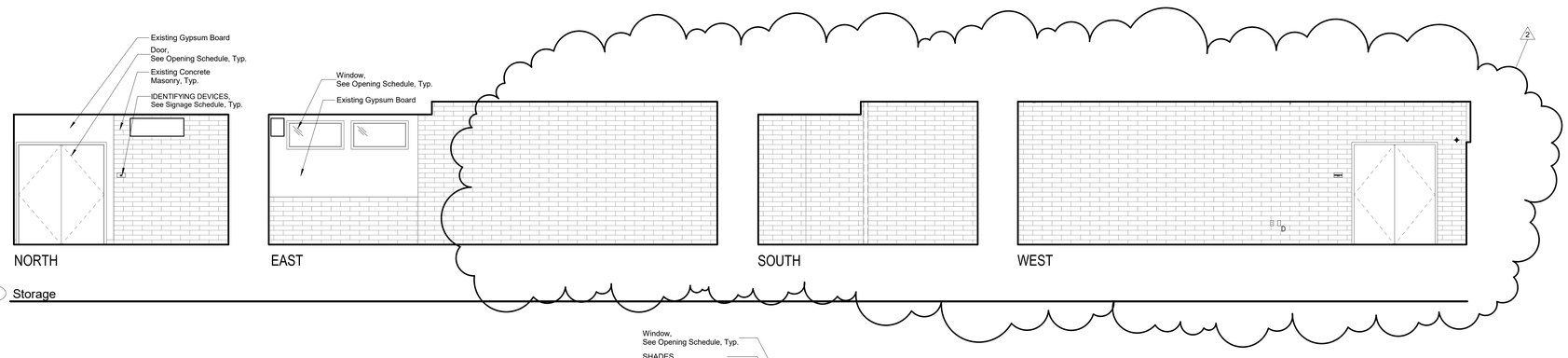
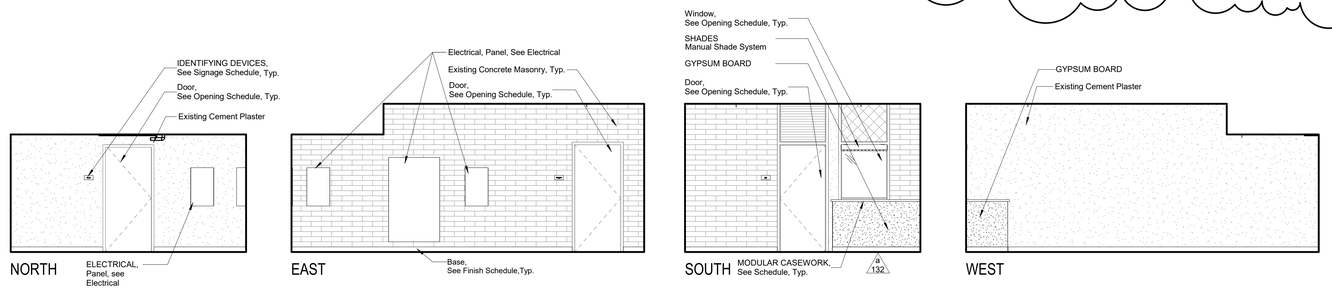


131 Storage



132 Storage

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

SYMBOLS

- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- FEC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls
- FEBC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls.
- ELECTRICAL, Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Outlet
- ELECTRICAL, Data Outlet
- ELECTRICAL, Light Switch
- ELECTRICAL, Microphone Outlet
- FA — ELECTRICAL, Fire Alarm Device
- IS — ELECTRICAL, Intrusion Sensor
- V — ELECTRICAL, Volume Control
- MS — ELECTRICAL, Motion Sensor
- TV — ELECTRICAL, Television Outlet
- ELECTRICAL, Telephone Outlet
- T — MECHANICAL, Thermostat
- GLASS
- HB — PLUMBING, Hose Bib

- GYPSUM BOARD, See Finish Schedule
- Existing Cement Plaster, See Finish Schedule
- Existing Gypsum Board, See Finish Schedule
- Existing Concrete Masonry, See Finish Schedule

ABBREVIATIONS

Gl.	Glass	Sim.	Similar
KS	Knee Space	Dia.	Diameter
OH	Opposite Hand	UNO	Unless Noted Otherwise
Typ.	Typical	OFCI	Owner Furnished, Contractor Installed

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail A11 X/A601 Typ. Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N14 X/A601 Typ. Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail A7 X/A601 Typ.
6. Locate and mount IDENTIFYING DEVICES per detail E11 X/A601 Typ. Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per detail N14 X/A601
8. Attach all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per details L14 X/A310 Typ, L11 X/A310 Typ, A14 X/A320 Typ
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail J1 X/A601 Typ
10. GYPSUM BOARD, Control Joints, see detail E18 X/A602 Typ
11. OWNER FURNISHED ITEMS, Television and Mount, OFCI. Install per detail L18 X/A603 Typ
12. OWNER FURNISHED ITEMS, Motorized Projector Screen, install per detail H7 X/A603 Typ. Verify locations wht Owner prior to rough-in.
13. TILE, Men and Women's Restrooms to recieve new tile at locations where existing TOILET ACCESSORIES, PLUMBING FIXTURES and TOILET PARTITIONS were removed. Refer to Interior Color Schedule for additional information.
14. Existing painted tackboard/wall covering to receive new paint. All existing finishes over metal partition walls to receive new paint. Refer to Interior Finish Schedule for additional work.
15. SHADES, Manual Shade System, Alternate #2, see detail J7 X/A601 Typ

E18 — Interior Elevation Legend
No Scale

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Architect

No.	Revision/Submission	Date
2	Addendum No. 2	8/16/2023

Revision

	Designed Designer	Copyright 2023 Darden Architects
Scale: 1/4" = 1'-0"	Drawn By: Author	*A/A606*
Project Number: 2024	Checked tChecker	
Date: 07/14/2023	ReviewedApprover	

A1 — Interior Elevations
1/4" = 1'-0" — Refer to E18 for Legend Symbols, Abbreviations and Notes

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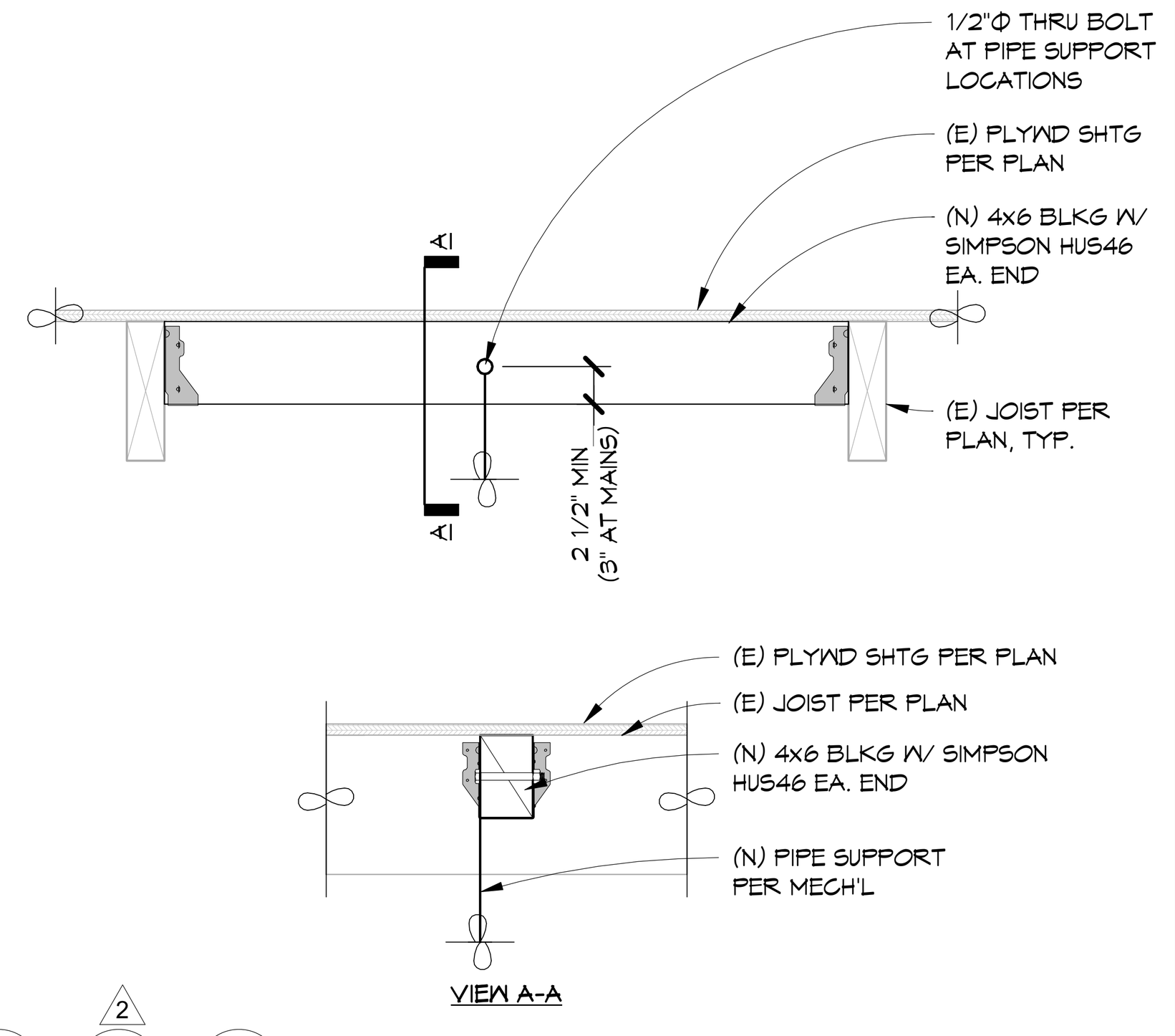
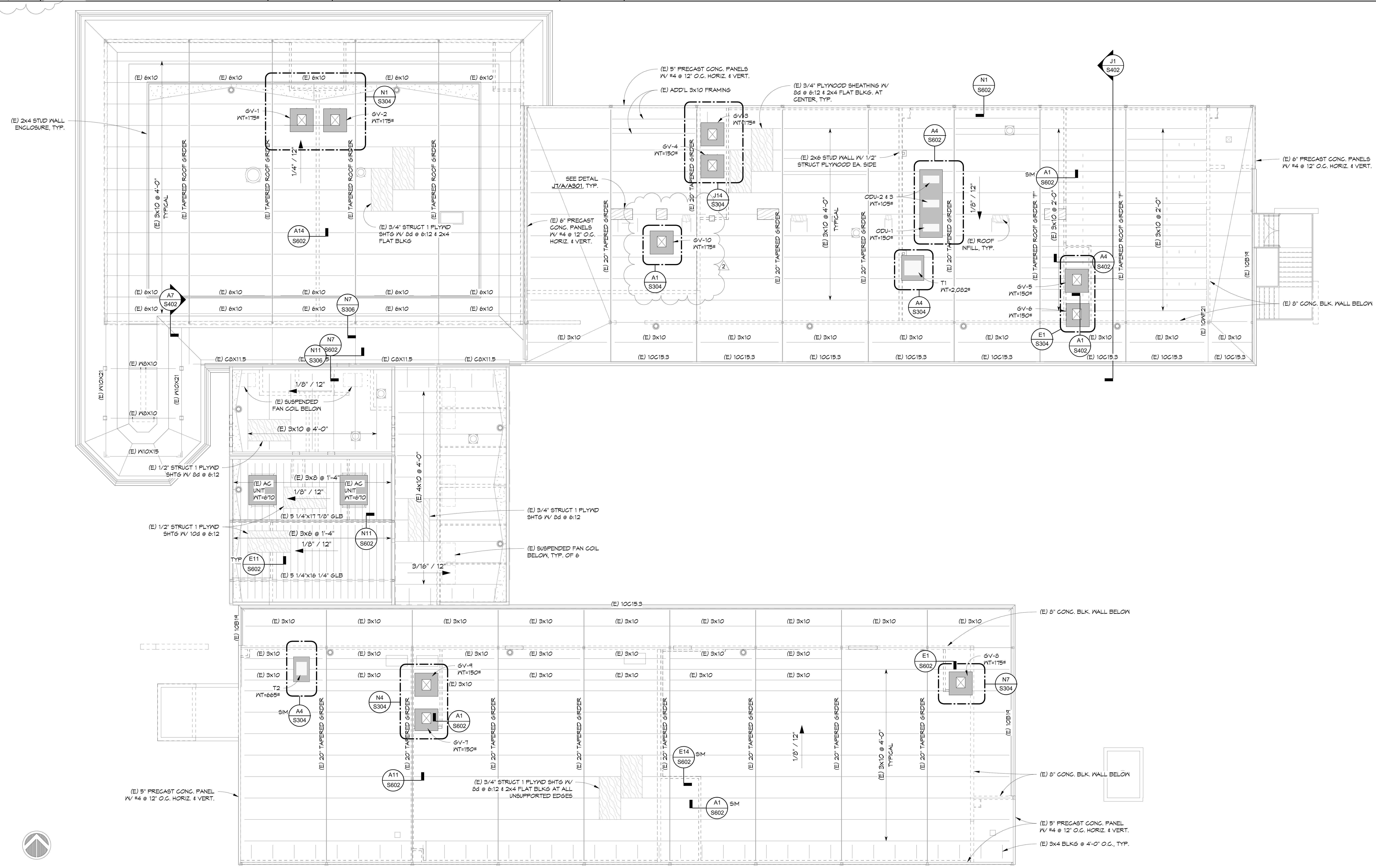


N1 TYPICAL PIPE SUPPORT FRAMING

S303 NOT TO SCALE



A1 ROOF FRAMING PLAN

S401 S303 1/8" = 1'-0"

DSA File No.: 24-C1

DSA Application No.: 02-120559

Agency Approval

BrooksRansom Associates 22051

Consultant

Career Technical Education Building Renovation

Merced College

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Project

ROOF FRAMING PLAN

Drawing

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Architect

No.	Revision/Submission	Date
2	Addendum 2	8/2/2023

Revision

Scale: As indicated	Designed By: ER	Copyright Darden Architects
Project Number: 2024	Drawn By: ER	
Date: 06/08/2023	Checked By: AL	
	Reviewed By: AL	

S303

AD2-SX01

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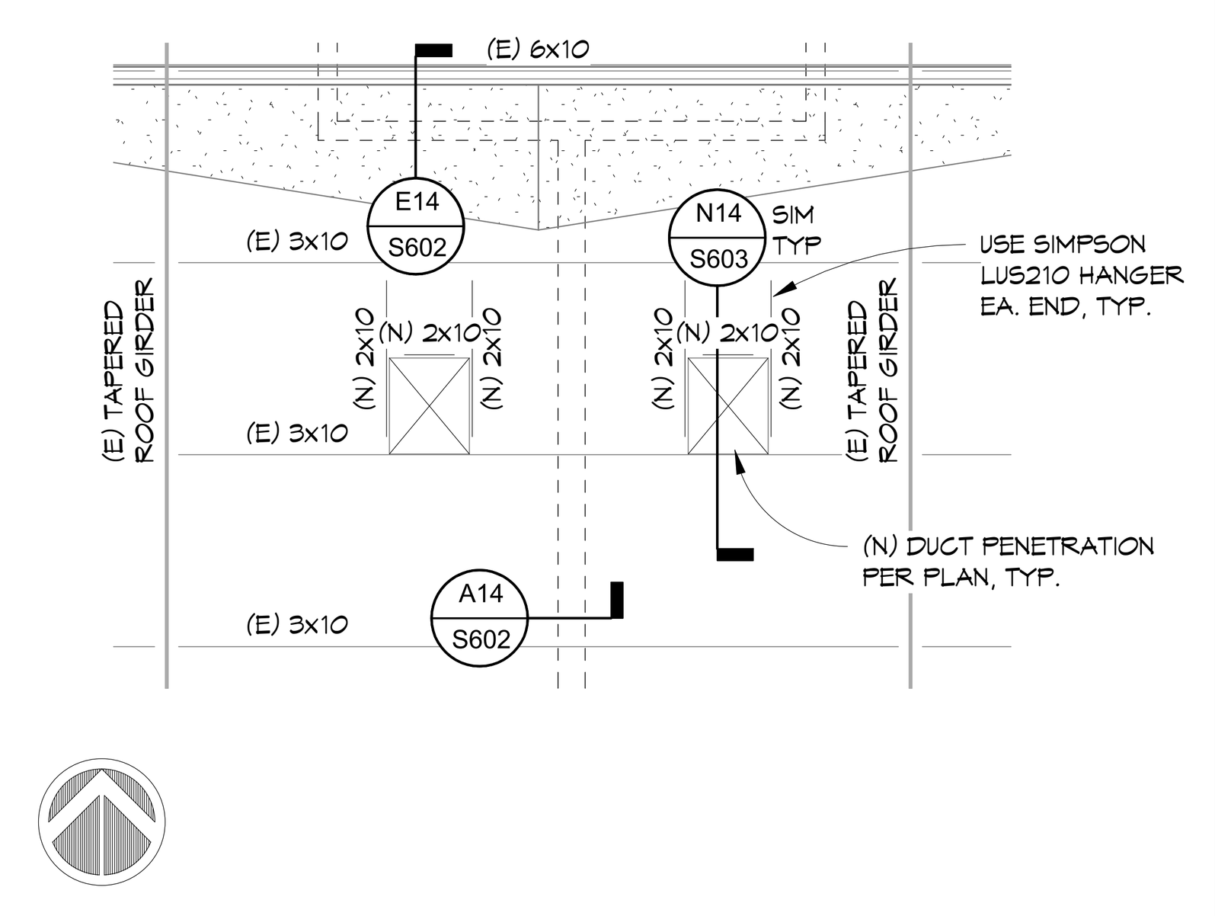
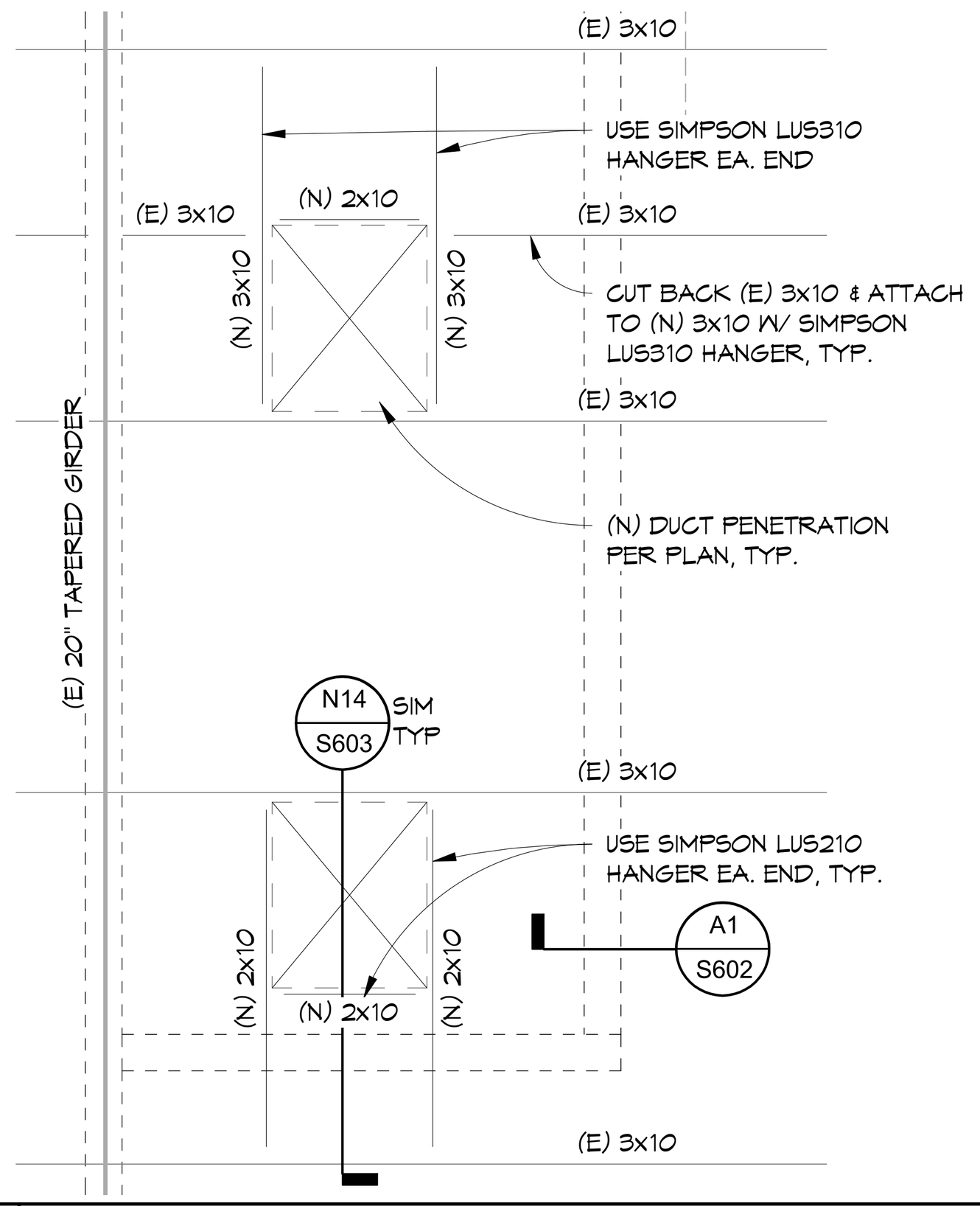
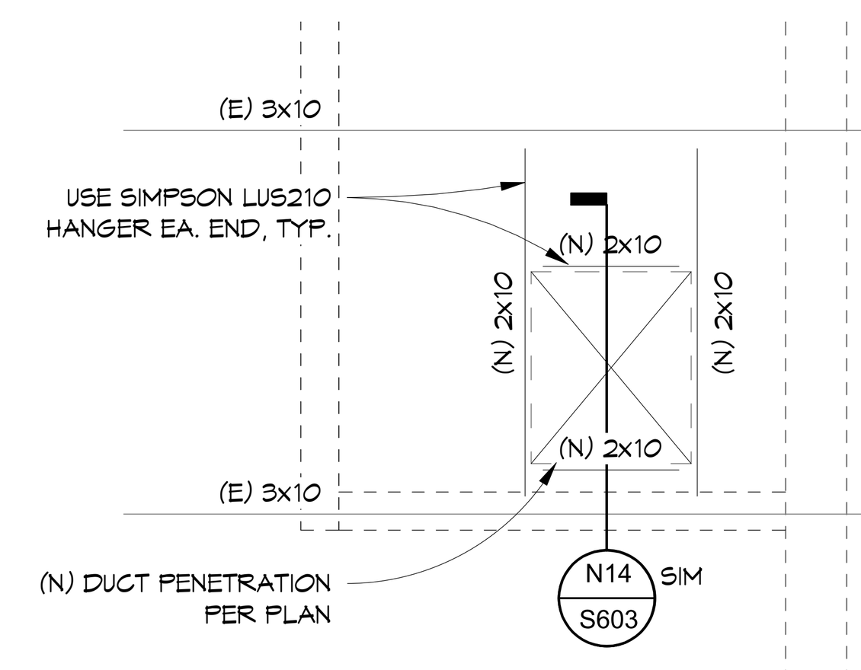


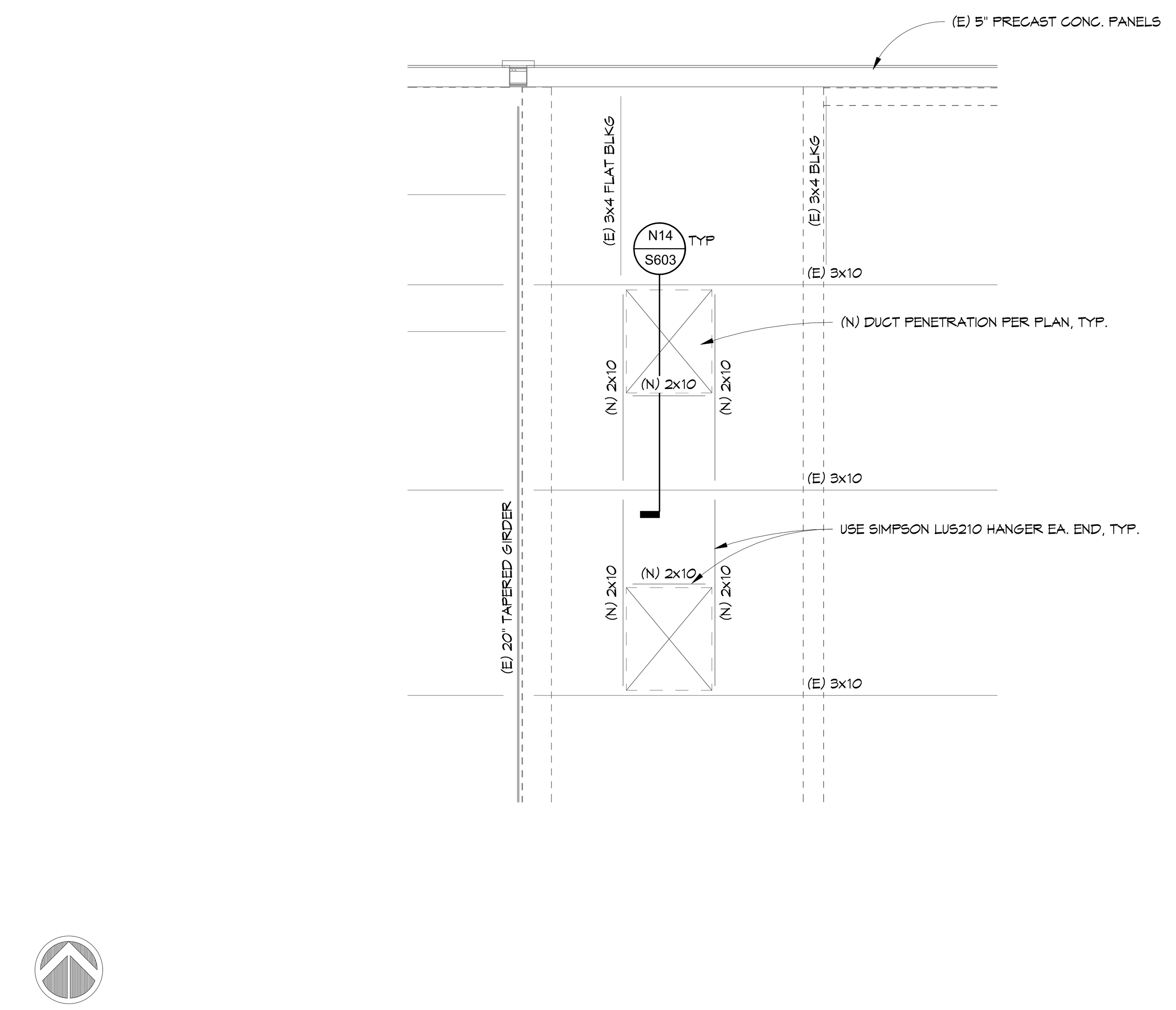
N1 PARTIAL ROOF FRAMING PLAN
S303 S304 1/4" = 1'-0"



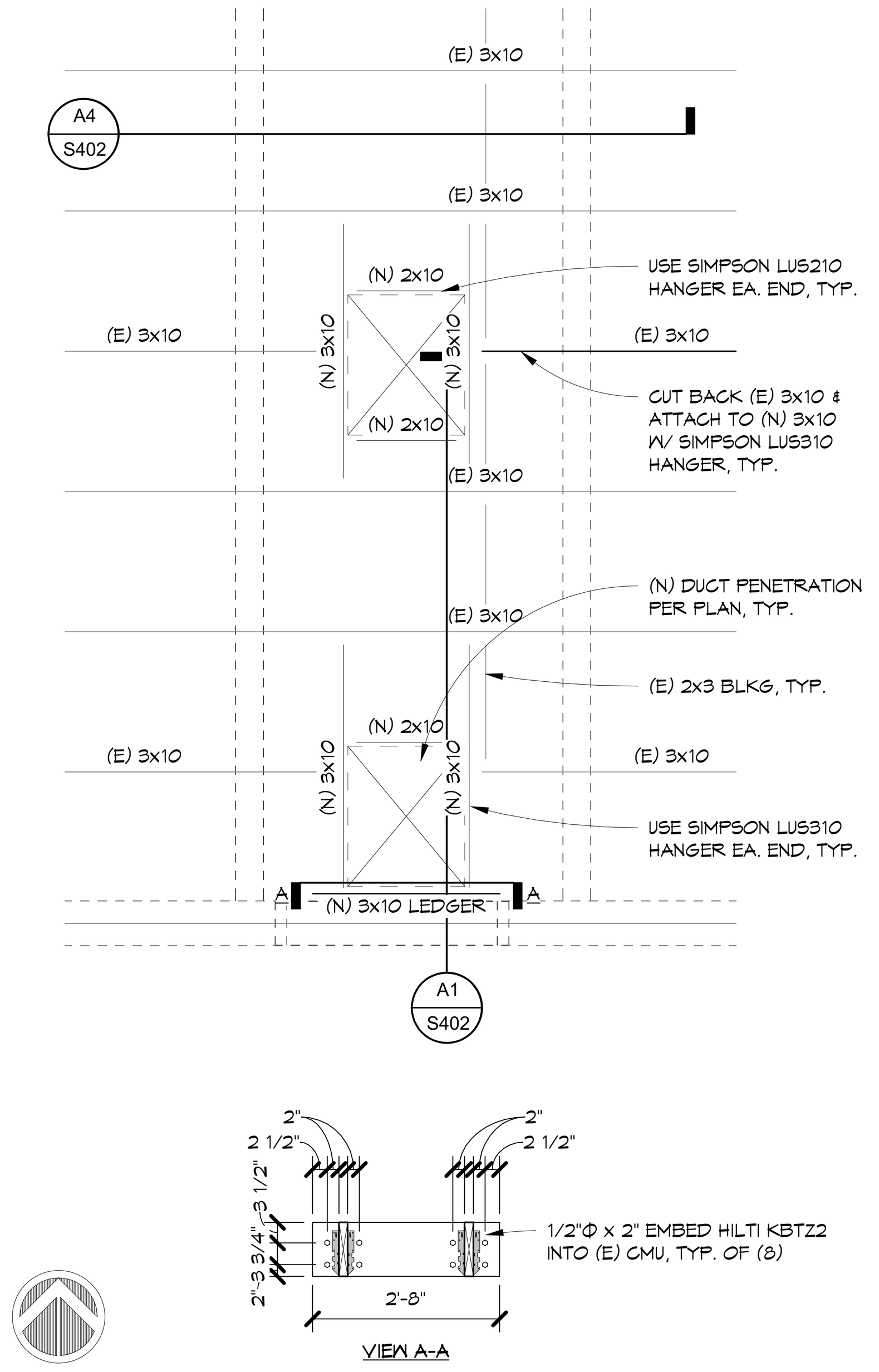
N4 PARTIAL ROOF FRAMING PLAN
S303 S304 1/2" = 1'-0"



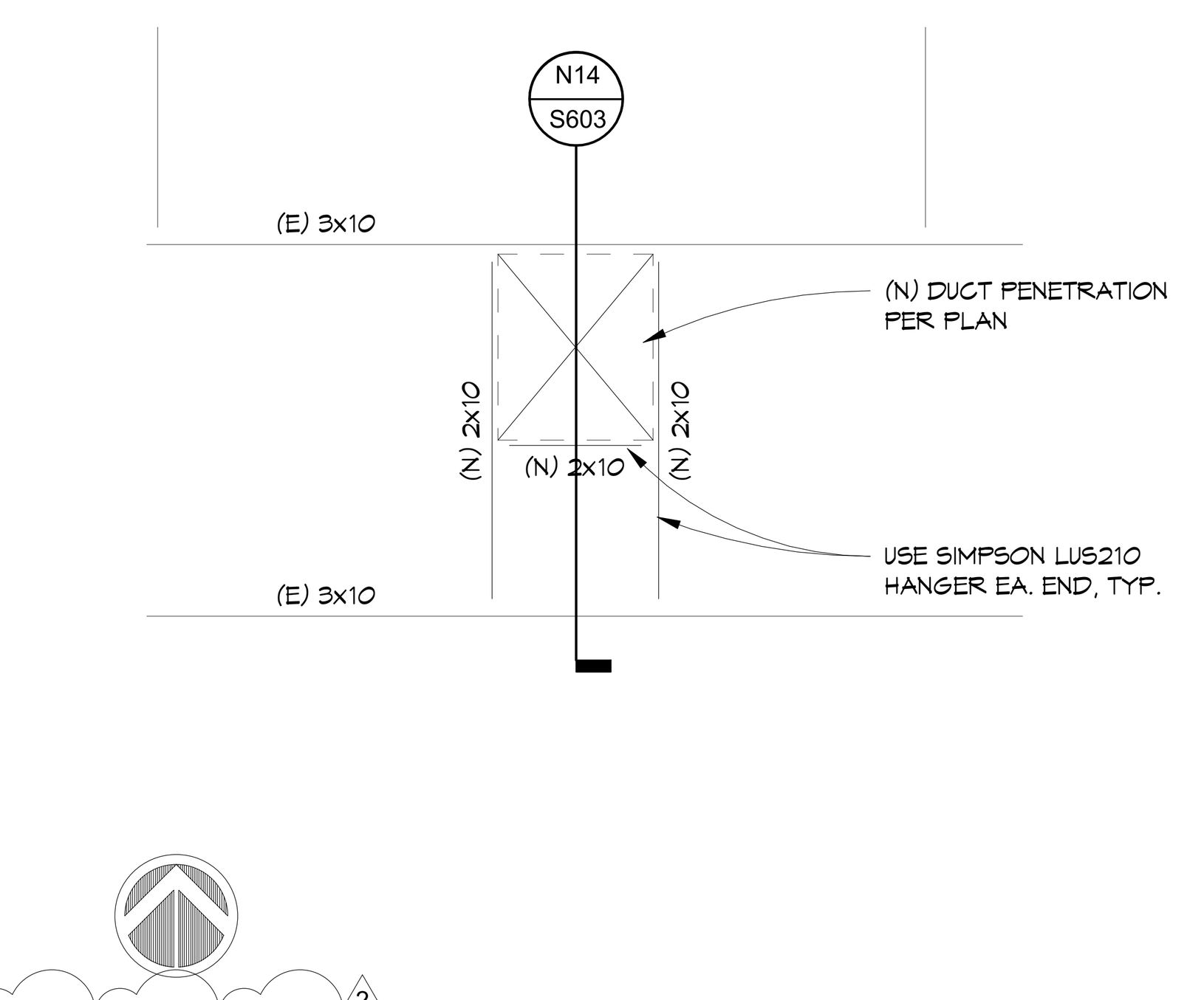
N7 PARTIAL ROOF FRAMING PLAN
S303 S304 1/2" = 1'-0"



J14 PARTIAL ROOF FRAMING PLAN
S303 S304 1/2" = 1'-0"



E1 PARTIAL ROOF FRAMING PLAN
S303 S304 1/2" = 1'-0"



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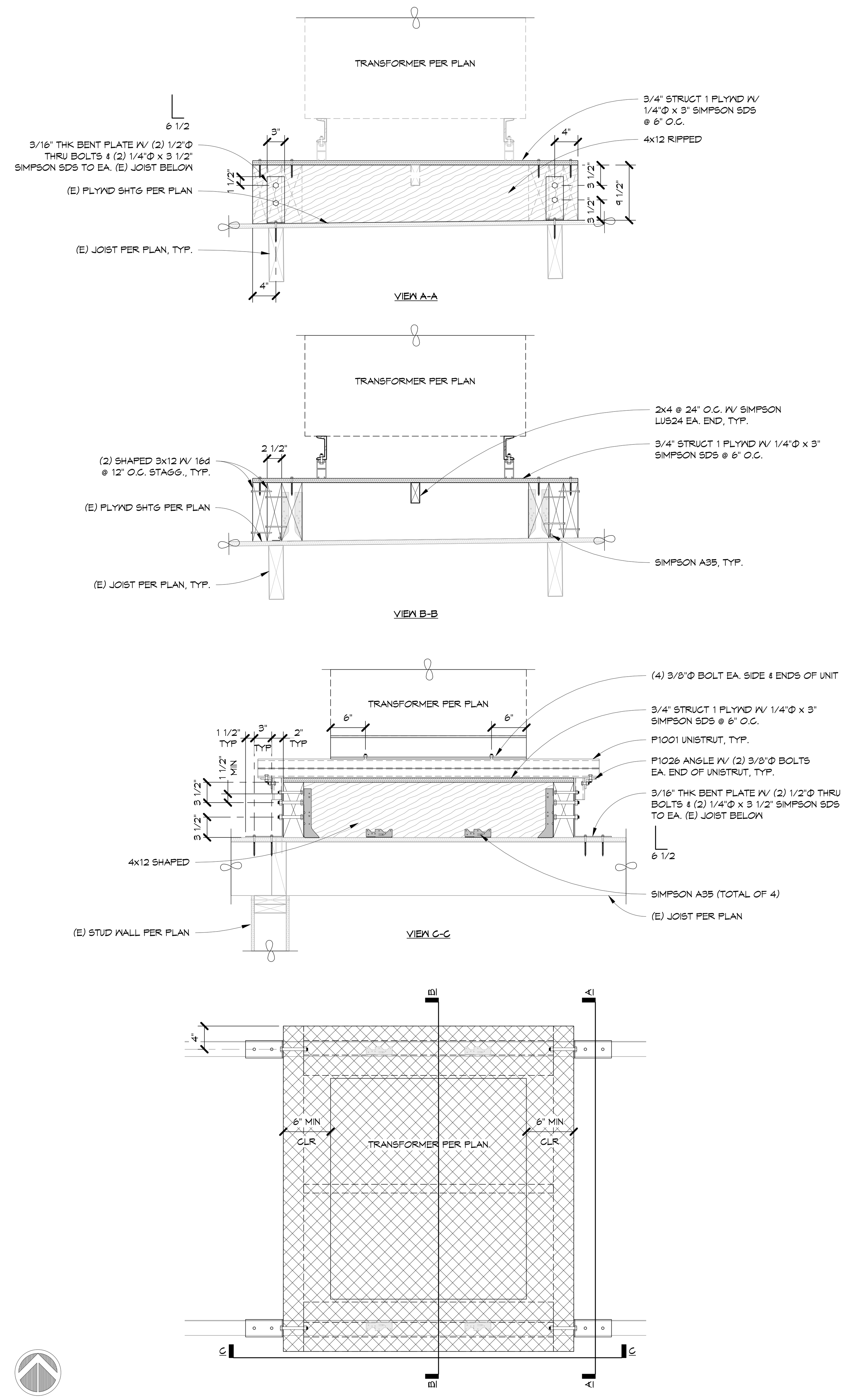
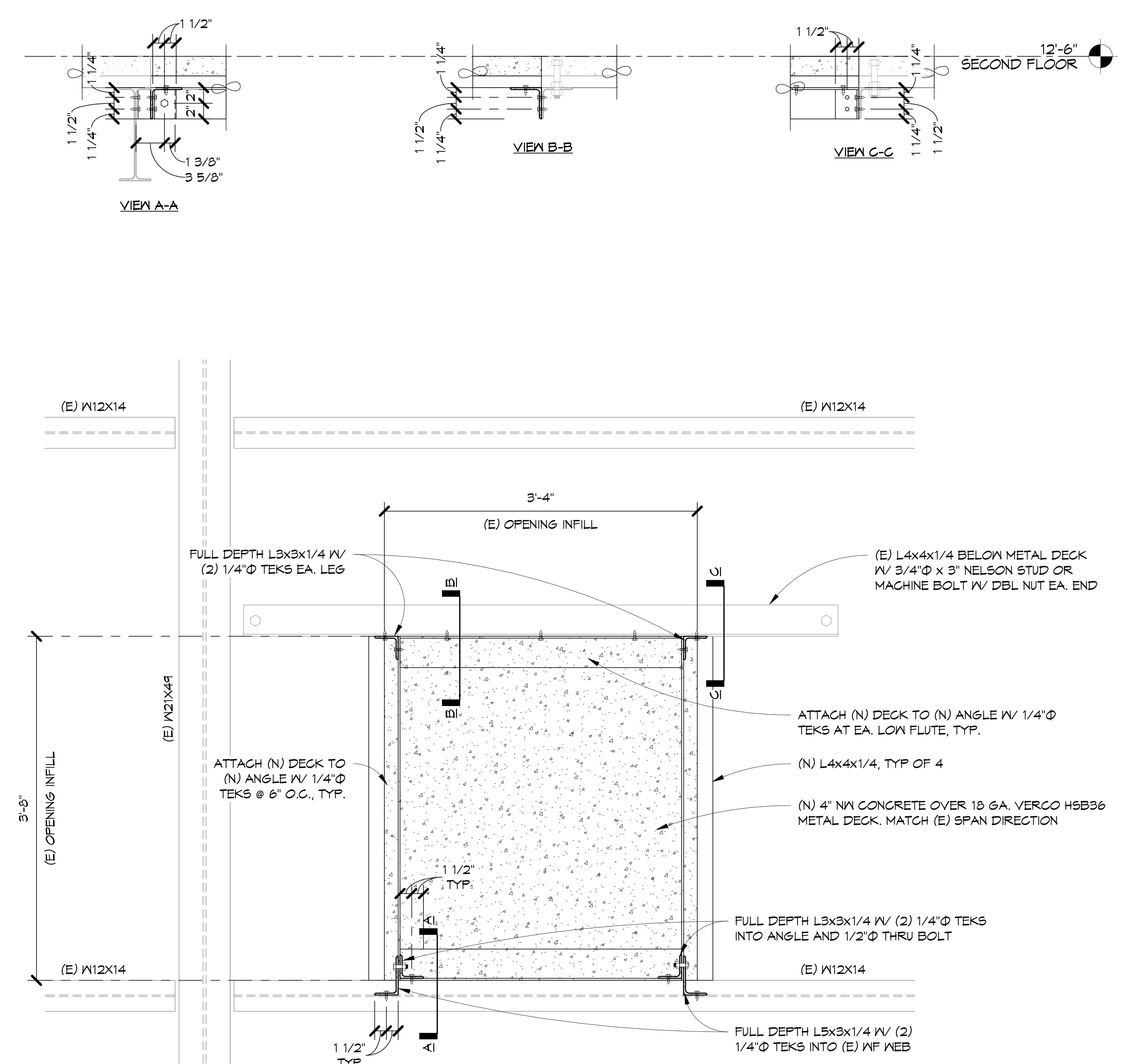


A4 DETAIL
S303 S304 1" = 1'-0"



A11 PARTIAL SECOND FLOOR FRAMING PLAN
S302 S304 1" = 1'-0"

DSA File No.: 24-C1

DSA Application No.: 02-120559

Agency Approval

BrooksRansom Associates 22051

Consultant

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PARTIAL ROOF FRAMING PLAN

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Architect

No.	Revision/Submission	Date
2	Addendum 2	8/2/2023

Revision

Scale: As indicated	Designed By: ER	Copyright Darden Architects
Project Number: 2024	Drawn By: ER	
Date: 06/08/2023	Checked By: AL	
	Reviewed By: AL	

S304

AD2-SX02

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MECHANICAL SCHEDULES

INDOOR UNIT SCHEDULE

DESIGNATION		IDU-1	IDU-2	IDU-3
BLOWER	SUPPLY AIR (CFM)	840	400	300
	EXT. SP (IN. WC)	-	-	-
	MIN. O.S.A. (CFM)	-	-	-
	VOLTS / PHASE	208-230 / 1	208-230 / 1	208-230 / 1
	MCA / MOCP	NOTE 3	NOTE 3	NOTE 3
	DRIVE	DIRECT	DIRECT	DIRECT
COOLING	SENSIBLE (MBH)	30	12	12
	TOTAL (MBH)	36	17	17
	EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67
HEATING	CAP. (MBH) @ 25°F	COOLING ONLY	COOLING ONLY	COOLING ONLY
	KW	-	-	-
	STAGES	-	-	-
FILTERS	QUANTITY / SIZE	2) 9.5 x 13.75	2) 9.5 x 13.75	2) 9.5 x 13.75
	TYPE	FACTORY	FACTORY	FACTORY
	PD (IN. WC)	0.1	0.1	0.1
MANUFACTURER		CARRIER	CARRIER	CARRIER
TYPE		WALL MOUNT	WALL MOUNT	WALL MOUNT
MODEL NUMBER		40MAHBQ36XA3	40MAHBQ18XA3	40MAHBQ18XA3
LOCATION		ELEC RM 128	STORAGE 132	STORAGE 131A
OPER. WT (LBS)		44	30	30
ACCESSORIES		1, 2	1, 2	1, 2

1. WIRED WALL MOUNTED THERMOSTAT.
2. REFRIGERANT LINE SET COVERS FOR EXPOSED PIPING IN ROOM. (AC COVER GUARD)
3. POWERED THRU THE OUTDOOR UNIT

OUTDOOR UNIT SCHEDULE

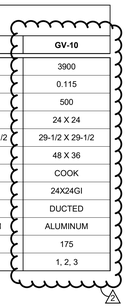
DESIGNATION	ODU-1	ODU-2	ODU-3
VOLTS / PHASE	208-230 / 1	208-230 / 1	208-230 / 1
MCA / MOCP	28 / 35	16 / 25	16 / 25
EER / SEER	8.5 / 17.5	12.5 / 21.5	12.5 / 21.5
COOLING CAP. (MBH)	36	17	17
REFRIGERANT	R-410A	R-410A	R-410A
AMBIENT (°F)	105	105	105
MANUFACTURER	CARRIER	CARRIER	CARRIER
TYPE	COOLING ONLY	COOLING ONLY	COOLING ONLY
MODEL NUMBER	38MARBQ36AA3	38MARBQ18AA3	38MARBQ18AA3
LOCATION	ROOF	ROOF	ROOF
OPER. WT. (LBS)	150	105	105
ACCESSORIES			

GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
A	CEILING SUPPLY LAY-IN	TITUS TDC (TYPE 3) LOUVER FACE SQUARE OR RECTANGULAR DIFFUSER FOR LAY-IN CEILING WITH O.B.D., FLAT BLACK INTERIOR, AND NO. 26 WHITE FINISH.
B	CEILING RETURN OR EXHAUST LAY-IN	TITUS CORE 50F (TYPE 3) ALUMINUM EGG CRATE REGISTER WITH 1/2"x1/2" GRID FOR LAY-IN CEILING, FLAT BLACK INTERIOR, AND NO. 26 WHITE FINISH.
C	CEILING SUPPLY SURFACE MOUNT	TITUS TDC (TYPE 1) LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR SURFACE MOUNTING WITH O.B.D. AND NO. 26 WHITE FINISH.
D	RETURN OR EXHAUST SURFACE MOUNT	TITUS CORE 50F (TYPE 1) ALUMINUM EGG CRATE REGISTER WITH 1/2"x1/2" GRID FOR SURFACE MOUNT, FLAT BLACK INTERIOR, AND NO. 26 WHITE FINISH.
E	LOUVER	RUSKIN ELF 375 STATIONARY EXTRUDED ALUMINUM LOUVER, 3/4" MESH SCREEN ON INSIDE FACE. MILL FINISH FOR PAINTING.
F	SIDEWALL SUPPLY	TITUS MODEL 1707 REGISTER WITH REMOVABLE CORE, 5 DEGREE UPWARD DEFLECTION, O.B.D., AND NO. 26 WHITE FINISH.

GRAVITY VENTILATOR SCHEDULE

DESIGNATION	GV-1	GV-2	GV-3	GV-4	GV-5	GV-6	GV-7	GV-8	GV-9	GV-10
CFM	3600	3500	3900	2400	2000	2000	2600	3700	2300	3900
AIR PD (IN. WC)	0.093	0.093	0.115	0.073	0.056	0.056	0.093	0.093	0.073	0.115
AIR VELOCITY (FPM)	450	450	500	400	350	350	450	475	400	500
THROAT WIDTH X LENGTH (IN.)	24 X 24	24 X 24	24 X 24	18 X 24	18 X 24	18 X 24	18 X 24	24 X 24	18 X 24	24 X 24
CURB CAP WIDTH X LENGTH (IN.)	29-1/2 X 29-1/2	29-1/2 X 29-1/2	29-1/2 X 29-1/2	23-1/2 X 29-1/2	23-1/2 X 29-1/2	23-1/2 X 29-1/2	23-1/2 X 29-1/2	29-1/2 X 29-1/2	23-1/2 X 29-1/2	29-1/2 X 29-1/2
HOOD WIDTH X LENGTH (IN.)	48 X 36	48 X 36	48 X 36	36 X 36	36 X 36	36 X 36	36 X 36	48 X 36	36 X 36	48 X 36
MANUFACTURER	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK	COOK
MODEL NUMBER	24X24GI	24X24GI	24X24GI	18X24GI	18X24GI	18X24GI	18X24GI	24X24GI	18X24GI	24X24GI
DUCTED / NON-DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED
MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
OPER. WT. (LBS)	175	175	175	150	150	150	150	175	150	175
ACCESSORIES	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3



1. MANUFACTURER'S ROOF CURB, 13-1/2" TALL, PITCHED TO MATCH ROOF SLOPE (BY OTHERS).
2. BIRD SCREEN.
3. BACKDRAFT DAMPER.

FAN COIL SCHEDULE

DESIGNATION		FC-1	FC-2	FC-3	FC-4	FC-5	FC-6	FC-7	FC-8	FC-9	FC-10	FC-11	FC-12	FC-13	FC-14	FC-15	FC-16
BLOWER	AIR FLOW (CFM)	3200	3000	1900	1800	2200	3600	3500	3900	2400	2000	2000	2600	2300	3700	3300	4500
	EXT. SP (IN. WC)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
	MIN. OSA (CFM)	750	750	420	420	500	790	760	1350	570	475	400	700	500	340	660	900
	HP / BRAKE HP	2 / 1.4	1-1/2 / 1.2	1 / 0.8	1 / 0.7	1-1/2 / 1.1	3 / 1.8	2 / 1.7	3 / 2.2	1 / 0.7	1-1/2 / 0.9	1-1/2 / 0.9	1-1/2 / 0.8	1 / 0.6	3 / 1.9	2 / 1.4	- / -
	VOLTS / PHASE	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3
	MOTOR TYPE	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT
	MCA / MOCP	7.7 / 10	5.8 / 10	3.9 / 6	3.9 / 6	5.8 / 10	10.8 / 15	7.7 / 10	10.8 / 15	3.6 / 6	5.8 / 10	5.8 / 10	5.8 / 10	3.9 / 6	10.8 / 15	7.7 / 10	17.9 / 30
COOLING COIL	SENSIBLE (MBH)	85.4	82.3	47.0	46.0	54.0	92.0	89.9	112.3	65.2	50.1	48.2	72.2	63.0	80.9	85.4	108.04
	TOTAL (MBH)	94.0	91.5	54.0	52.0	60.0	102.0	99.4	118.4	74.9	56.6	55.0	81.3	66.5	91.7	94.0	109.86
	EADB / EAWB (°F)	82 / 65	82 / 65	84 / 65	84 / 65	84 / 65	84 / 65	84 / 65	84 / 65	84 / 65	84 / 65	84 / 65	84 / 65	84 / 65	84 / 65	82 / 65	82 / 65
	GPM	18.80	18.2	10.8	10.4	12.0	20.2	19.8	23.6	14.9	11.3	11.0	16.2	13.3	18.3	18.80	18.80
	PD (FT)	5.40	5.20	7.10	6.70	8.60	6.20	6.00	8.20	6.10	7.80	7.30	7.10	5.00	5.20	5.40	5.40
	EWT (°F)	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
	BRANCH SIZE (IN)	1-3/8"	1-3/8"	1-1/8"	1-1/8"	1-1/8"	1-3/8"	1-3/8"	1-3/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-3/8"	1-3/8"	1-3/8"
	VALVE TYPE	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	3-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8
	VALVE Cv	11	11	6	6	7	12	11	14	9	7	6	9	8	11	11	-
HEATING COIL	CAPACITY (MBH)	82.0	81.0	54.0	53.0	55.0	83.4	83.0	84.3	76.8	54.6	54.6	78.0	76.7	83.7	82.0	161.57
	EWT / EAT (°F)	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58	180 / 58
	GPM	8.2	8.1	5.4	5.3	5.5	8.3	8.3	8.4	7.7	5.5	5.5	7.8	7.7	8.4	8.2	8.2
	PD (FT)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.50	0.20	0.20	0.50	0.50	0.20	0.20	1.3
	BRANCH SIZE (IN)	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"
	VALVE TYPE	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	3-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8	2-WAY, NOTE 8
	VALVE Cv	5	5	3	3	3	5	5	5	4	3	3	5	4	5	5	-
FILTERS	QTY / SIZE	4 / 20x25x2	4 / 20x25x2	2 / 16X25X2	2 / 16X25X2	2 / 16X25X2	4 / 20x25x2	4 / 20x25x2	4 / 20x25x2	4 / 20x25x2	2 / 16x25x2	2 / 16x25x2	4 / 20x25x2	4 / 20x25x2	4 / 20x25x2	4 / 20x25x2	4 / 20x25x2
	TYPE	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
	FINAL PD (IN WC)	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
MANUFACTURER		CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
TYPE		VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET	VERTICAL-CLOSET
MODEL NUMBER		39S-09	39S-09	39S-05	39S-05	39S-05	39S-09	39S-09	39S-09	39S-07	39S-05	39S-05	39S-07	39S-07	39S-09	39S-09	39S-09
LOCATION		VOC LECTURE 124	VOC LECTURE 125	VOC LECTURE 103	VOC LECTURE 102	VOC LECTURE 101	LECTURE 217	LECTURE 218	LECTURE 219	LECTURE 220	LECTURE 221	LECTURE 222	AOM 204	MUSIC 203	CPSC/DRONE 202	BIOTECH 127	NUTRITION 130
OPER. WT (LBS)		850	850	500	500	500	850	850	850	700	500	500	700	700	850	850	850
ACCESSORIES		3, 5, 6, 7	3, 5, 6, 7	3, 5, 6, 7	3, 5, 6, 7	3, 5, 6, 7	3, 4, 5, 6, 7	3, 4, 5, 6, 7	3, 4, 5, 6, 7	3, 4, 5, 6, 7	3, 4, 5, 6, 7	3, 4, 5, 6, 7	3, 4, 5, 6, 7	3, 4, 5, 6, 7	3, 4, 5, 6, 7	3, 5, 6, 7	3, 5, 6, 7

1. TOP / BOTTOM ACCESS FILTER, MIXING BOX, AND SECONDARY DRAIN PAN.
2. SECONDARY DRAIN PAN.
3. CONDENSATE OVERFLOW SWITCH.
4. UNITS TO BE SHUT DOWN VIA FIRE ALARM SYSTEM. RELAY CONTACTOR AND BRANCH CIRCUITING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
5. FACTORY PROVIDED, FIELD INSTALLED LOW LEAKAGE MODULATING DAMPERS WITH HONEYWELL JADE CONTROLLER FOR MODULATING 0-100% DRY-BULB ECONOMIZER CONTROLS.
6. FACTORY-INSTALLED BACNET COMPATIBLE CONTROL MODULE FOR DDC TIE-INTO CAMPUS JOHNSON METASYS.
7. FRONT FILTER ACCESS PANEL.
8. REFER TO DETAIL E14 / X/M802 FOR COIL CONNECTION PIPING REQUIREMENTS.

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

General Notes

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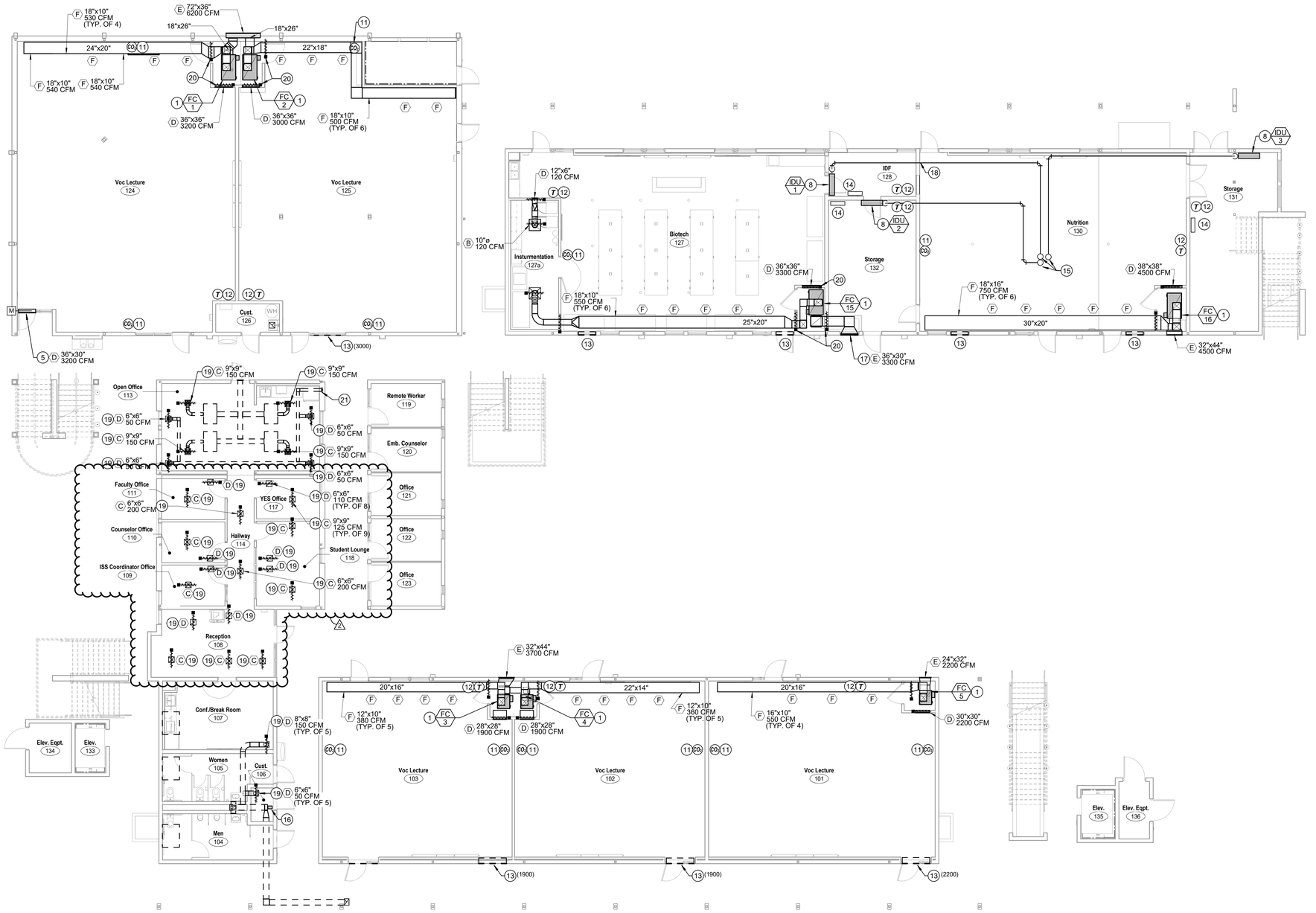
No.	Revision/Submission	Date

Revision

	Designed By: JS	Copyright 2022 Darden Architects
Scale: 12" = 1'-0"	Drawn By: JS	X/M102
Project Number: 2024	Checked By: HB	
Date: 08/26/2022	Reviewed By: JS	

AD2-MX01

7/28/2023 7:24:18 AM



DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

KEYNOTES

1 GROUND MOUNTED FAN COIL UNIT. REFER TO DETAIL J8 / X/M800.
2 (E) SUSPENDED FAN COIL, HANGERS, CONTROLS, DUCT AND ACCESSORIES TO REMAIN. TYP.
3 20"x16" SA DUCT UP TO 2ND FLOOR. PROVIDE FSD AT RATED FLOOR PENETRATION PER A1 / X/M801.
4 22"x18" RA DUCT UP TO 2ND FLOOR. PROVIDE FSD AT RATED FLOOR PENETRATION PER A1 / X/M801.
5 EXTERIOR BAROMETRIC RELIEF LOUVER MOUNTED ABOVE DOOR IN (E) TRANSOM PANEL LOCATION. LOUVER CFM SHOWN FOR 100% ECONOMIZING. REFER TO DETAIL E14 / X/M800.
6 PROVIDE BALANCE DAMPERS AT ALL SIDE WALL DIFFUSERS. TYP.
7 (E) GRILLE/DIFFUSER TO REMAIN. (TYP)
8 INDOOR UNIT MOUNTED ABOVE DOOR PER A8 AND A11 / X/M800.
9 PROVIDE DUCT SMOKE DETECTOR FOR UNIT SHUTDOWN UPON DETEXTION OF SMOKE. REFER TO DETAIL A11 / X/M801.
10 CEILING REGISTER PER A14 / X/M801. TYP.
11 CO2 SENSOR MOUNTED ON WALL BETWEEN 3'-0" AND 6'-0" AFF. PROVIDE 24V POWER FROM EMS.
12 THERMOSTAT MOUNTED ON WALL AT +48" AFF TO TOP OF BOX.
13 (E) OUTSIDE AIR LOUVER TO REMAIN. LUBRICATE BEARINGS, CLEAN FREE OF DEBRIS, AND SERVICE WEIGHT MECHANISM AT BDD TO ENSURE PROPER OPERATION DURING UNIT ECONOMIZER MODE. BALANCE TO CFM NOTED IN PARENTHESIS ().
14 NEW JOHNSON METASYS BUILDING CONTROLLER. FIELD COORDINATE LOCATION WITH ELECTRICAL EQUIPMENT AND PANELS
15 REFRIGERANT LINE SET ROUTED TO 2ND FLOOR, WITHIN CHASE.
16 (E) INLINE EF, GRILLES AND DUCT TO REMAIN TO REMAIN.
17 FIELD MEASURE SIZE OF HOLLOW METAL FRAME AND MATCH LOUVER.
18 REFRIGERANT PIPE THRU BLOCK WALL. SEE STRUCTURAL A4 ON X/S102.
19 RECONNECT (N) SURFACE MOUNT GRILLE TO (E) RECUTANGULAR DUCTWORK. PROVIDE NEW CEILING FIRE SMOKE DAMPERS AT GRILLE CONNECTION.
20 PROVIDE NEW WALL FIRE SMOKE DAMPER AT DUCT PENETRATION THRU CLOSET.
21 CONTINUATION OF (E) DUCT.

GENERAL NOTES

A. SUSPEND DUCT FROM STRUCTURE PER N14 / X/M801.
B. PROVIDE LOW LOSS TAPS ON ALL DUCT FITTINGS PER J14 / X/M801.
C. PROVIDE VOLUME DAMPERS ON ALL DUCT BRANCHES PER A8 / X/M801.
D. SUSPEND PIPE FROM STRUCTURE PER E4 / X/M801.
E. PROVIDE AIR RELIEF VENTS AT CHWS/R AND HWS/R HIGH POINTS PER SPECIFICATIONS.
F. PRESERVE ALL (E) EXISTING SURFACES, FINISHES, AND SYSTEMS TO REMAIN. CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED AT NO EXPENSE TO THE OWNER.
G. MINIMUM CHWS/R AND HWS/R PIPE SIZE = 3/4"
H. FIELD VERIFY ALL DUCT, GRILLE, DAMPER AND LOUVER SIZING INTENDED TO MATCH EXISTING CONDITIONS OR OPENINGS.

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BUILDING A
MECHANICAL PLAN - FIRST FLOOR
Drawing

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No.	Revision/Submission	Date

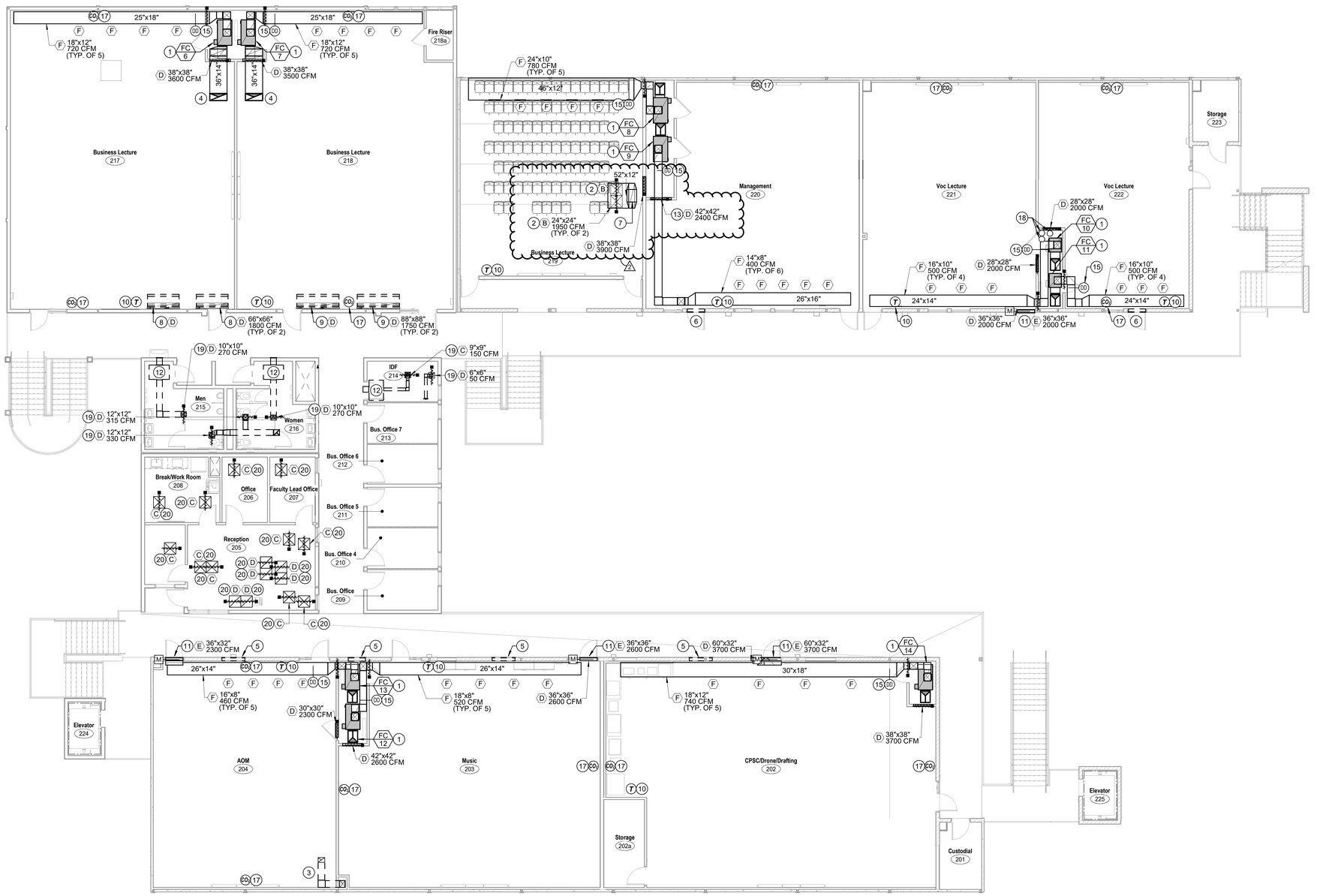
Revision

	Designed By: JS	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: JS	A/M101
Project Number: 2024	Checked By: HB	
Date: 08/26/2022	Reviewed By: JS	

A1
MECHANICAL PLAN - FIRST FLOOR
1/8" = 1'-0"

7/28/2023 7:24:12 AM

AD2-MX02



DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

KEYNOTES (#)

1 GROUND MOUNTED FAN COIL UNIT. REFER TO DETAIL J8 / X/M800.
2 PROVIDE NEW CEILING MOUNTED FSD.
3 (E) EXHAUST DUCT UP THRU ROOF TO REMAIN
4 36"x14" DUCT RISER UP THRU ROOF TO GRAVITY VENT.
5 (E) ATTIC VENT LOUVER ABOVE CEILING TO REMAIN
6 ~~(E) OUTSIDE AIR LOUVER TO REMAIN~~
7 24"X24" BAROMETRIC RELIEF AIR RISER UP THRU ROOF AT ENLARGED (E) OPENING AND NEW CURB TO GRAVITY VENTILATOR.
8 RECONNECT (N) SURFACE MOUNT GRILLE TO (E) RECUTANGULAR DUCTING TO (E) PARAPET LOUVER, SEE J1 / X/M801.
9 RECONNECT (N) SURFACE MOUNT GRILLE TO (E) RECUTANGULAR DUCTING TO (E) PARAPET LOUVER, SEE E1 / X/M801.
10 THERMOSTAT MOUNTED ON WALL AT +48" AFF TO TOP OF BOX.
11 EXTERIOR BAROMETRIC RELIEF LOUVER MOUNTED ABOVE DOOR IN (E) TRANSOM PANEL LOCATION. LOUVER CFM SHOWN FOR 100% ECONOMIZING.
12 (E) SUSPENDED FAN COIL, HANGERS, CONTROLS, DUCT AND ACCESSORIES TO REMAIN.
13 RETURN LOCATED UNDER SUPPLY DUCT.
14 (E) 9"x9" DUCT RISER UP THRU ROOF TO EXHAUST DUCT TO REMAIN.
15 PROVIDE DUCT SMOKE DETECTOR FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. REFER TO DETAIL A11 / X/M801.
16 CEILING REGISTER PER A14 / X/M801. TYP.
17 CO2 SENSOR MOUNTED ON WALL BETWEEN 3'-0" AND 6'-0" AFF. PROVIDE 24V POWER FROM EMS.
18 REFRIGERANT LINE SET FROM 1ST FLOOR WITHIN CHASE, ROUTED TO ROOF.
19 RECONNECT (N) SURFACE MOUNT GRILLE TO (E) RECTANGULAR DUCTWORK. PROVIDE NEW CEILING FIRE SMOKE DAMPERS AT GRILLE CONNECTION.
20 CONTRACTOR TO PREFORM PRE-BALANCE TO MATCH FOR FINAL BALANCE. RECONNECT (N) SURFACE MOUNT GRILLE TO (E) RECTANGULAR DUCTWORK. PROVIDE NEW CEILING FIRE SMOKE DAMPERS AT GRILLE CONNECTION.

GENERAL NOTES

A. SUSPEND DUCT FROM STRUCTURE PER N14 / X/M801.
B. PROVIDE LOW LOSS TAPS ON ALL DUCT FITTINGS PER J14 / X/M801.
C. PROVIDE VOLUME DAMPERS ON ALL DUCT BRANCHES PER A8 / X/M801.
D. SUSPEND PIPE FROM STRUCTURE PER E4 / X/M801.
E. PROVIDE AIR RELIEF VENTS AT CHWS/R AND HWS/R HIGH POINTS PER SPECIFICATIONS.
F. PRESERVE ALL (E) EXISTING SURFACES, FINISHES, AND SYSTEMS TO REMAIN. CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED AT NO EXPENSE TO THE OWNER.
G. MINIMUM CHWS/R AND HWS/R PIPE SIZE = 3/4"
H. FIELD VERIFY ALL DUCT, GRILLE, DAMPER AND LOUVER SIZING INTENDED TO MATCH EXISTING CONDITIONS OR OPENINGS.

General Notes

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BUILDING A
MECHANICAL PLAN - SECOND FLOOR

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Revision

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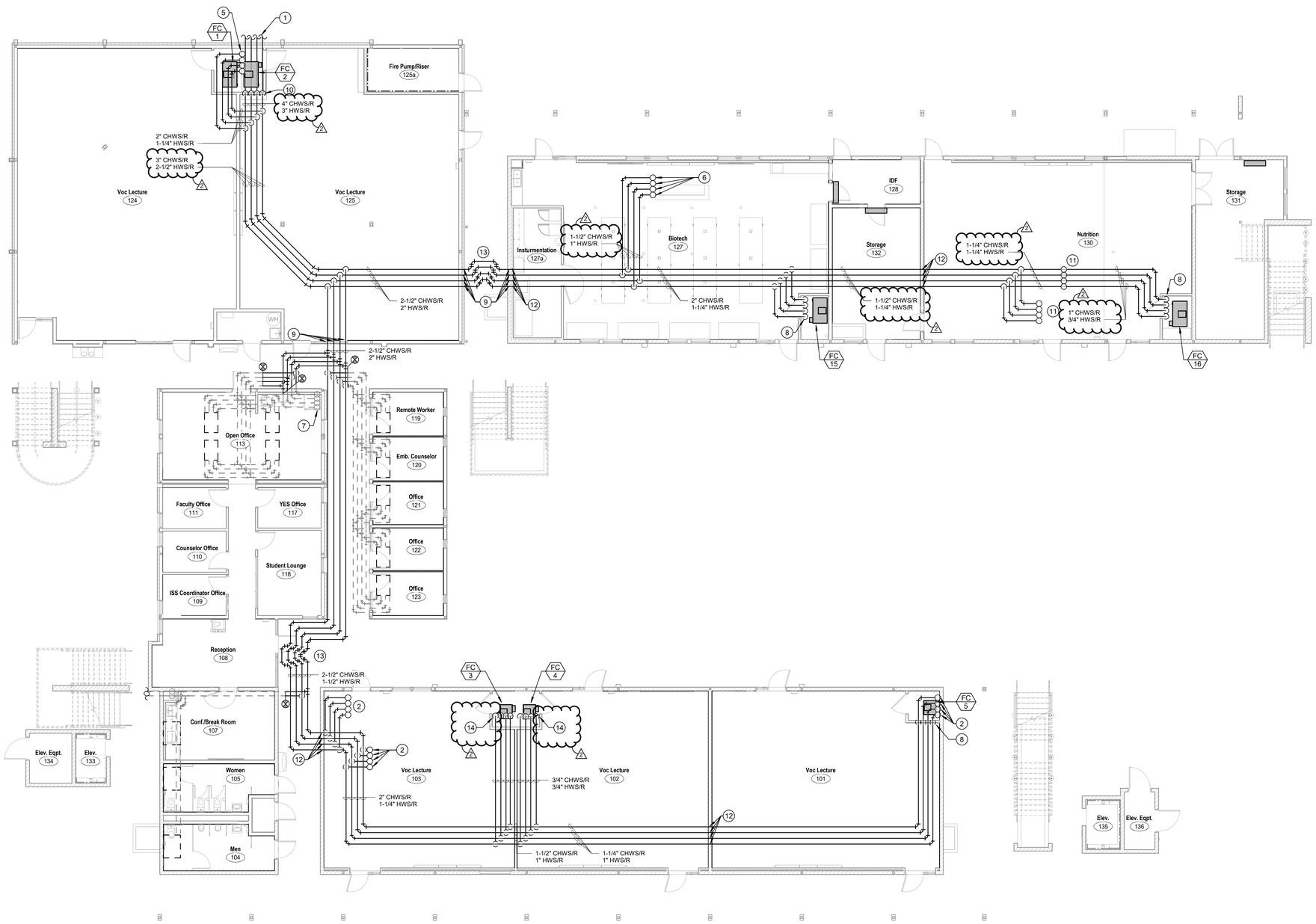
	Designed By: JS	
Scale: As indicated	Drawn By: JS	A/M102
Project Number: 2024	Checked By: HB	
Date: 08/26/2022	Reviewed By: JS	

A1
MECHANICAL PLAN - SECOND FLOOR
1/8" = 1'-0"

7/28/2023 7:24:14 AM

AD2-MX03



1
1/8" = 1'-0"

FIRST FLOOR HYDRONIC PIPING

8/15/2023 9:15:27 AM

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

KEYNOTES (#)

1 B.G. PRE-INSULATED HYDRONIC PIPE FROM CENTRAL PLANT. REFER TO SD/M102 FOR CONTINUATION.

2 1" CHWS/R AND 3/4" HWS/R ROUTED UP TO 2ND FLOOR CLOSET. SEE N4 / X/M801 AND E1/X/S102.

3 1" CHWS/R AND 3/4" HWS/R ROUTED UP TO 2ND FLOOR WITHIN WALL CAVITY. REFER TO DETAIL N4 / X/M801 FOR FLOOR PENETRATION.

4 POC OF 1"CHWS/R AND 3/4"HWS/R. (E) CHWS/R AND (E) HWS/R ROUTED UP TO 2ND FLOOR IN (E) CHASE.

5 1-1/2"CHWS/R AND 1" HWS/R ROUTED DN TO 1ST FLOOR CLOSET AND UP TO 2ND FLOOR CLOSET. SEE N4 / X/M801 AND E1/X/S102.

6 1-1/2" CHWS/R AND 1" HWS/R ROUTED UP TO 2ND FLOOR. SEE N4 / X/M801 AND E1/X/S102. SEAL PIPE PENETRATION THRU FIRE RATED FLOOR PER A1 / X/M802.

7 ~~(E) CHWS/R AND (E) HWS/R DN TO 2ND FLOOR.~~

8 1"CHWS/R AND 3/4" HWS/R DN IN CLOSET TO FAN COIL.

9 ~~SEAL PIPE PENETRATION THRU EXTERIOR FIRE RATED~~ WALL PER J8 / X/M802 AND A11/S601.

10 SITE PIPING TO PENETRATE UNDER GRADE BEAM AT 4'-8" BFF CL.

11 3/4"CHWS/R AND 3/4" HWS/R ROUTED UP TO 2ND FLOOR.

12 SEE E11/S602 FOR PENETRATION.

13 PROVIDE METRO LOOP AT BUILDING EXPANSION JOINT. SIZE TO MATCH CHWS/R AND HWS/R.

14 3/4"CHWS/R AND 3/4" HWS/R DN IN CLOSET TO FAN COIL.

General Notes

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FIRST FLOOR HYDRONIC PIPING PLAN
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Drawn By: JS
Checked By: HB
Reviewed By: JS

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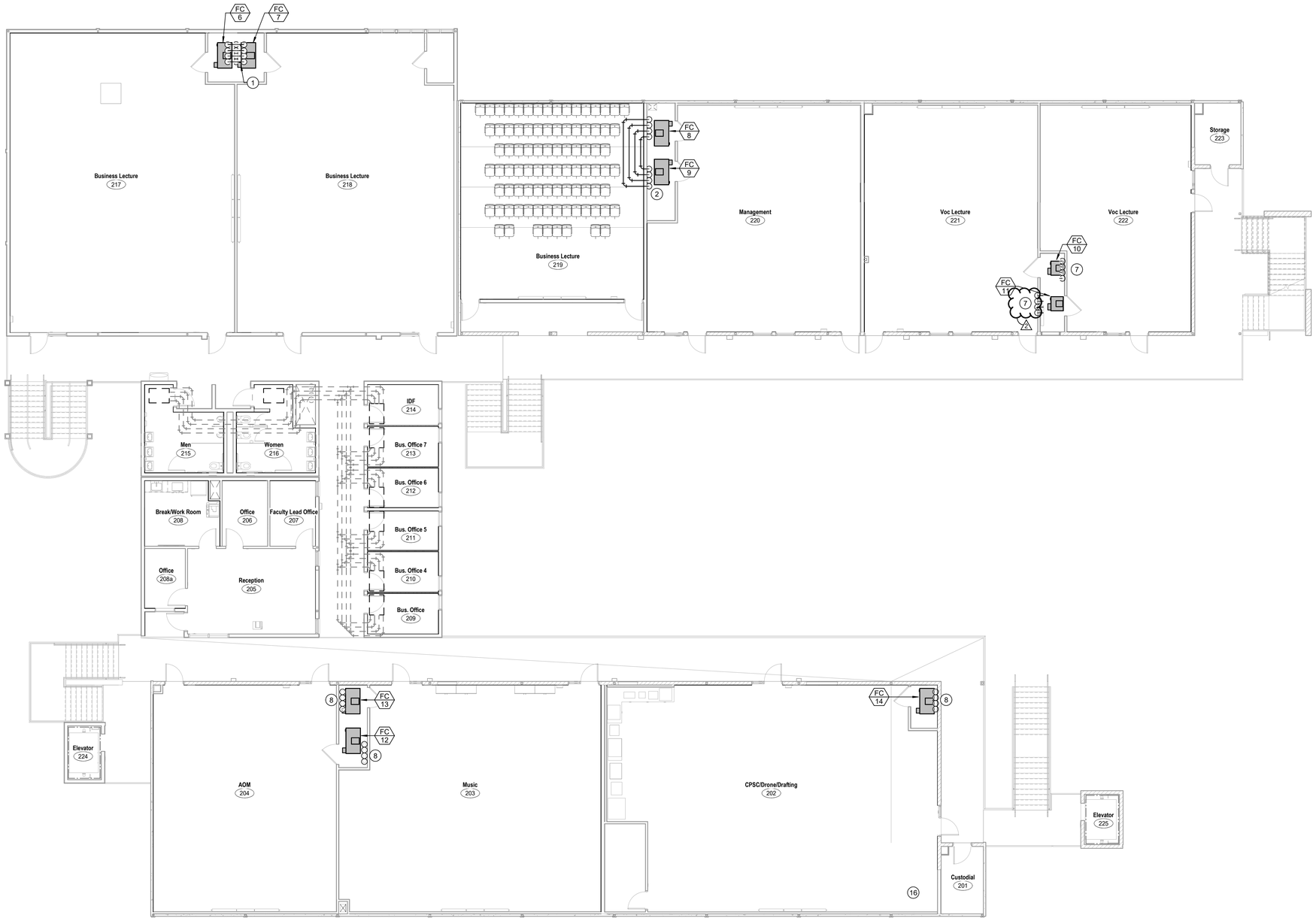
Scale: As indicated
Project Number: 2024
Date: 08/26/2022

A/M201

AD2-MX04



1 SECOND FLOOR HYDRONIC PIPING

1/8" = 1'-0"

8/15/2023 9:15:29 AM

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

KEYNOTES (#)

1 1-1/2" CHWS/R AND 1" HWS/R FROM 1ST FLOOR. PROVIDE 1" CHWS/R AND 3/4" HWS/R TO FAN COILS WITHIN CLOSET.

2 1-1/2" CHWS/R AND 1" HWS/R FROM 1ST FLOOR. PROVIDE 1" CHWS/R AND 3/4" HWS/R TO FC-9 WITHIN CLOSET. OFFSET ABOVE CEILING TO FC-8 WITH 1-1/4"CHWS/R AND 3/4" HWS/R.

3 1-1/4" CHWS/R AND 3/4" HWS/R FROM 1ST FLOOR, ROUTED WITHIN WALL.

4 1-1/4" CHWS/R AND 3/4"HWS/R ROUTED UP THRU ROOF PER DETAIL J4 / X/M801.

5 NOT USED.

6 1-1/2" CHWS/R AND 1" HWS/R ROUTED UP THRU ROOF PER DETAIL J4 / X/M801.

7 3/4" CHWS/R AND 3/4" HWS/R FROM 1ST FLOOR WITHIN CLOSET.

8 1" CHWS/R AND 3/4" HWS/R FROM 1ST FLOOR WITHIN CLOSET.

General Notes

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SECOND FLOOR HYDRONIC PIPING

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Revision

Designed Designer
Drawn By: Author
Checked Checker
Reviewed Approver

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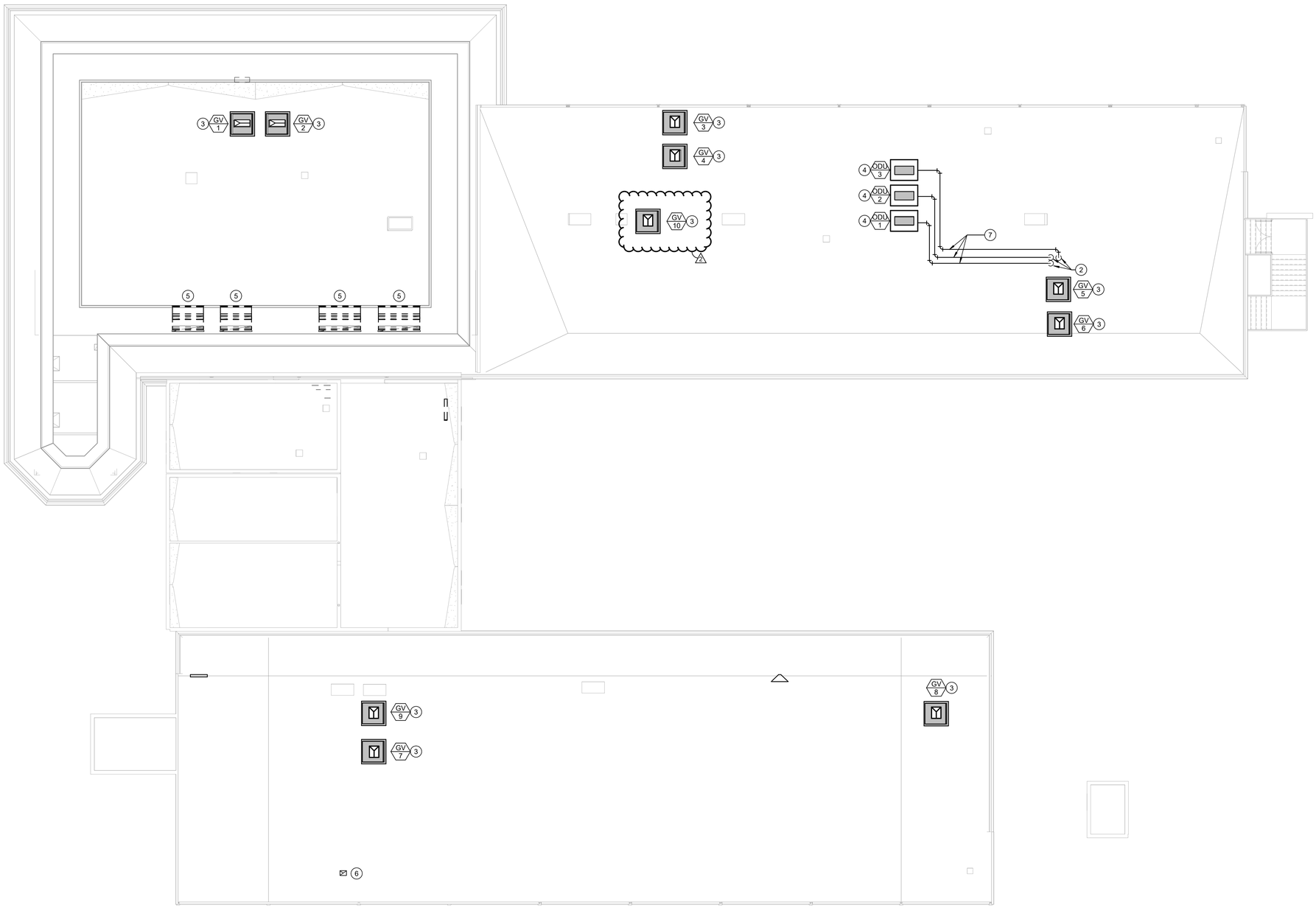
Scale: As indicated
Project Number: 2024
Date: 08/26/2022

A/M202

AD2-MX05



DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

KEYNOTES (#)

1 NOT USED.
2 REFRIGERANT ROUTED DOWN THRU ROOF IN (N) PIPE VESTIBULE PER N1 / X/M801
3 ROOF MOUNTED GRAVITY VENTILATOR. REFER TO DETAIL J4 / X/M800.
4 OUTDOOR UNIT MOUNTED ON PLATFORM PER E8 / X/M800.
5 (E) PARAPET LOUVER AND CONNECTING DUCTWORK TO REMAIN. SEE E1 & J1 / X/M801 FOR DETAILING.
6 (E) EXHAUST TERMINATION UP THRU ROOF TO REMAIN.
7 PIPE TO BE SUPPORTED ON COMMON ROOF SUPORT SYSTEM WITH PIPE CLAMP. REFER TO DETAIL A4/X/M801 AND A4/X/A501.

GENERAL NOTES

A. PRESERVE ALL (E) EXISTING SURFACES, FINISHES, AND SYSTEMS TO REMAIN. CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED AT NO EXPENSE TO THE OWNER.

General Notes

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Drawn By: JS
Checked By: HB
Reviewed By: JS

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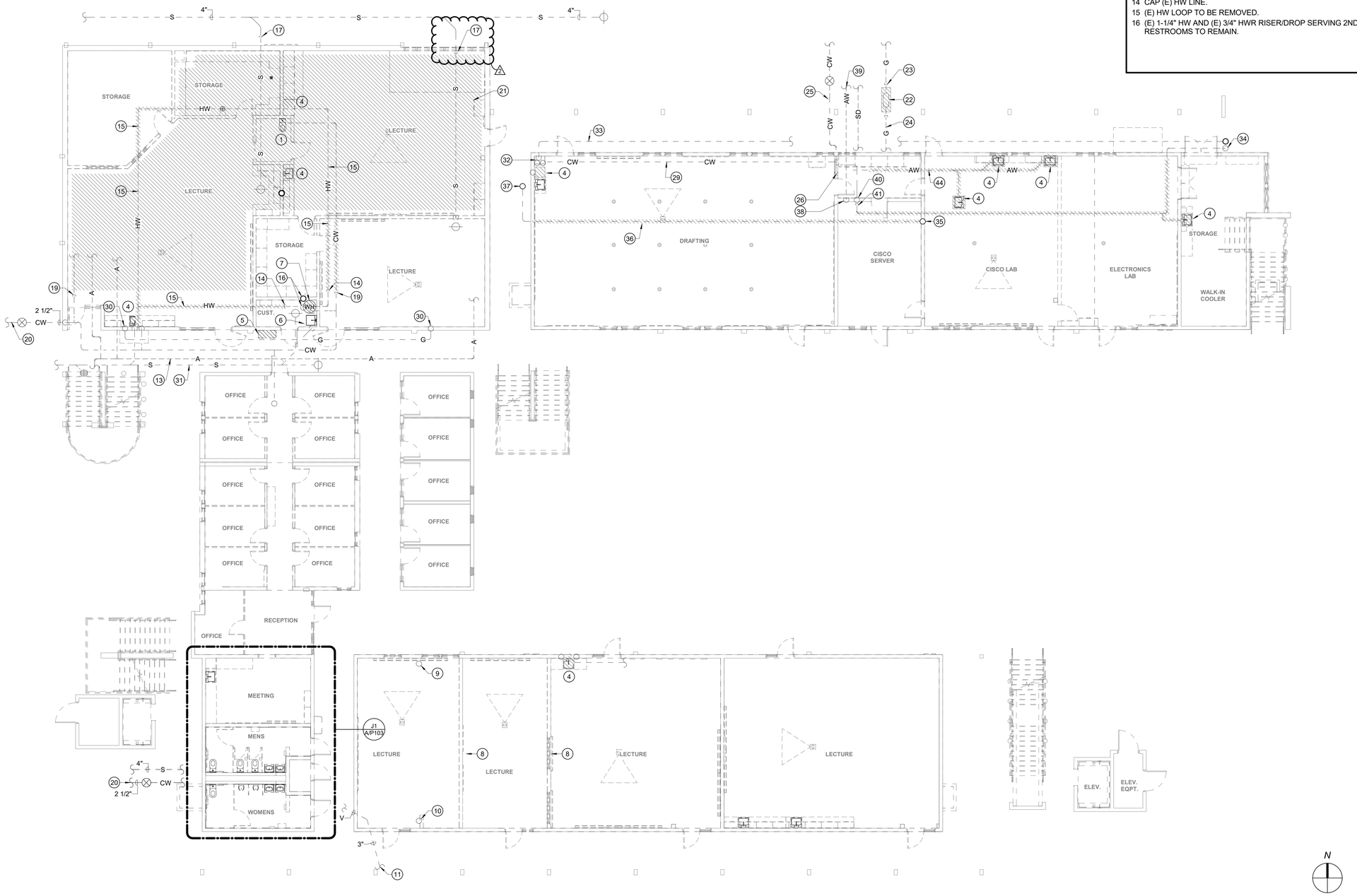
Scale: As indicated
Project Number: 2024
Date: 08/26/2022

A/M301

A1
MECHANICAL ROOF PLAN
1/8" = 1'-0"

AD2-MX06

7/28/2023 7:24:15 AM



KEYNOTES

1 RLVE. CAP (E) 1" CW IN WALL. CAP (E) 4" S & 2" V BELOW FLOOR.
2 NOT USED.
3 NOT USED.
4 REMOVE (E) SINK, FAUCET AND TRIM. CAP (E) 3/4" CW & HW, 2" S & 1-1/2" V IN (E) WALL.
5 REMOVE (E) DRINKING FOUNTAIN AND TRIM. CAP (E) 3/4" CW, 1-1/2" S & 1-1/4" V IN (E) WALL
6 (E) MOP SINK TO REMAIN.
7 REMOVE (E) WATER HEATER. CAP (E) UTILITIES FOR RE-CONNECTION.
8 WALLS SHOWN DASHED ARE TO BE REMOVED. DRAIN AND CAP ALL ABANDONED PIPING BACK BEHIND FINISHED SURFACES. RE-ROUTE ALL ACTIVE PIPE TO ANOTHER (N) WALL. (TYP)
9 REMOVE (E) CD IN (E) WALL TO BE REMOVED. CAP BELOW FLOOR.
10 REMOVE (E) WASTE LINE IN (E) WALL TO BE REMOVED. CAP BELOW FLOOR.
11 (E) 3" V LINE SERVING RESTROOMS TO REMAIN, REFER TO SHEET A/P002 & A/P301 FOR CONTINUATION.
12 NOT USED.
13 (E) AIR LINES TO BE ABANONED IN PLACE.
14 CAP (E) HW LINE.
15 (E) HW LOOP TO BE REMOVED.
16 (E) 1-1/4" HW AND (E) 3/4" HWR RISER/DROP SERVING 2ND FLR RESTROOMS TO REMAIN.

KEYNOTES CONT.

17 (E) SEWER LINE TO BE CAPPED BELOW GRADE AND ABANDONED IN PLACE.
18 NOT USED.
19 CAP (E) 1-1/2" CW LINE. REMOVE CW SHOWN HATCHED.
20 (E) 2-1/2" CW MAIN.
21 ALL EXISTING PLUMBING PIPE IN HATCHED AREA TO BE REMOVED FROM ABV CEILING: GAS, AIR, CW, HW AND VENT.
22 (E) GAS PRESSURE REGULATOR ASSEMLBY BELOW GRADE, TO BE REMOVED.
23 CAP (E) GAS LINE BELOW GRADE.
24 (E) GAS LINE IN BUILDING CRAWL SPACE TO BE ABANDONED IN PLACE.
25 (E) CW MAIN TO REMAIN.
26 (E) CW RISER TO 2ND FLR TO REMAIN.
27 NOT USED.
28 NOT USED.
29 PRESERVE (E) 3/4"CW BELOW BUILDING IN CRAWLSPACE FOR NEW FIXTURES.
30 (E) 1" GAS RISER UP TO 2ND FLOOR TO REMAIN.
31 (E) 6" SEWER BELOW GRADE TO REMAIN.
32 CAP (E) 1"HW AT WALL. (E) 2"V, AND 2"S WITHIN FURRED CHASE TO REMAIN.
33 ABANDON (E) 1"HW IN OVERHEAD EXTERIOR SOFFIT.
34 (E) 1-1/4"CW AND 1"HW RISER TO 2ND FLOOR WATER HEATER TO REMAIN.
35 REMOVE 1/2"G RISER FROM CRAWLSPACE.
36 REMOVE OVERHEAD 1/2" G.
37 ABANDON 1/2"G RISER WITHIN (E) EXTERIOR SOFFIT TO 2ND FLOOR. CUT ENDS FLUSH WITH FINISHES.
38 ABANDON (E) 4"AW RISER WITHIN WALL FROM CRAWLSPACE TO 2ND FLOOR. CUT ENDS FLUSH WITH FINISHES.
39 REMOVE (E) 4" ACID WASTE EXPOSED WITHIN CRAWLSPACE. REMOVE (E) 4"AW IN SITE AS REQUIRED FOR (N) WORK, ABANDON ELSE.
40 (E) 1-1/4"CW RISER WITHIN WALL FROM CRAWLSPACE TO 2ND FLOOR TO REMAIN.
41 CAP 1-1/4"CW ABOVE CEILING. REMOVE 1-1/4"CW SHOWN HATCHED.
42 NOT USED.
43 NOT USED.
44 REMOVE (E) 2"AW WITHIN CRAWLSPACE.

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

General Notes

NET POSITIVE consulting engineers
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project no. 1197

Consultant

Career Technical Education Building Renovation
Merced College
3600 M St, Merced, CA 95348

Project

BUILDING A
PLUMBING DEMOLITION PLAN - FIRST FLOOR

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: JS
Drawn By: JS
Checked By: HB
Reviewed By: JS

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Scale: As indicated
Project Number: 2024
Date: 08/26/2022

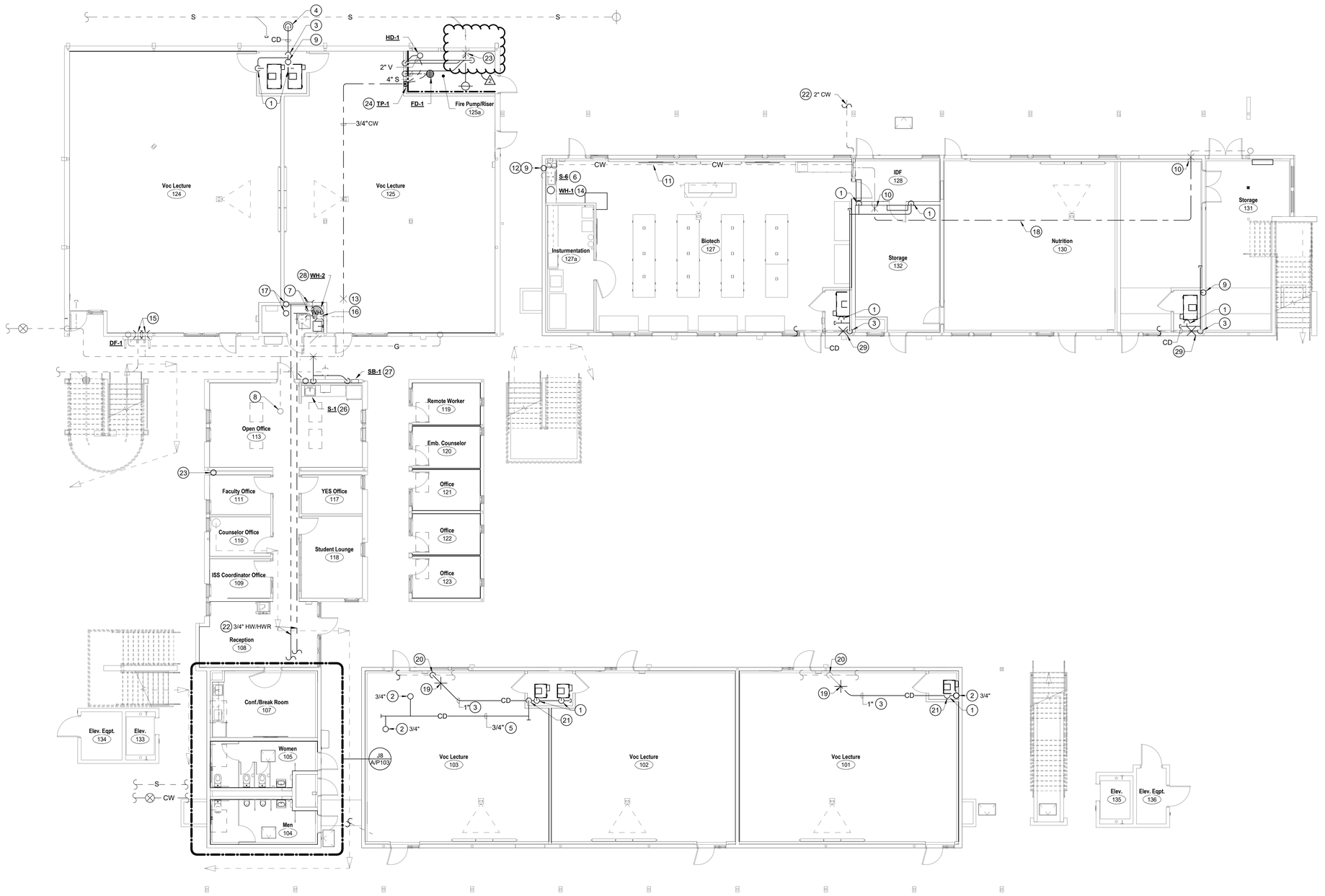
A/P001

A1
1/8" = 1'-0"

PLUMBING DEMOLITION PLAN - FIRST FLOOR

AD2-PX01

7/27/2023 4:49:28 PM



DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

KEYNOTES (#)

1 PROVIDE CONDENSATE DRAIN TRAP TO MECHANICAL PER DETAIL A11 ON SHEET X/P800.
2 CONDENSATE DRAIN DN FROM SECOND FLOOR. SEE SHEET A/P102 FOR CONTINUATION.
3 ROUTE CONDENSATE DRAIN BELOW FLOOR WITHIN CRAWLSPACE TO BELOW GRADE AND ROUTE TO DRY WELL.
4 TERMINATE CONDENSATE DRAIN AT (N) DRYWELL PER DETAIL A11 ON SHEET X/P800.
5 ROUTE CONDENSATE DRAIN ABOVE FIRST FLOOR CEILING.
6 (N) SINK. RE-CONNECT TO (E) S, V & CW. CONNECT HW FROM UNDER-SINK INSTANTANEOUS WATER HEATER.
7 (E) 1-1/4" HW AND (E) 3/4" HWR LINES SERVING 2ND FLR RESTROOMS TO BE RECONNECTED TO (N) WATER HEATER.
8 (E) CW UP TO 2ND FLR RESTROOMS.
9 (N) 3/4" CD DN FROM 2ND FLR.
10 POC OF (N) 1-1/2" CW TO (E) 1-1/2" CW.
11 (E) CW & HW BELOW FLOOR IN CRAWL SPACE.
12 (N) 3/4" CD DN TO SINK TAILPIECE SIMILAR TO DETAIL A4 ON SHEET X/P800.
13 POC OF 3/4"CW ABOVE CEILING.
14 (N) ELECTRIC INSTANTANEOUS WATER HEATER INSTALLED PER DETAIL A8 ON SHEET X/P801.
15 (N) DRINKING FOUNTAIN AND BOTTLER FILLER STATION. PROVIDE POC OF 1-1/2" SEWER TO (E) 2" SEWER, 3/4" CW TO (E) 3/4"CW, AND 1-1/2" V TO 1-1/2"V. REMOVE/ DEMO WALL AND SAW-CUT CONCRETE AS REQUIRED FOR (N) RELOCATED POINTS OF CONNECTION. PATCH BACK IN KIND.
16 RECONNECT (E)1-1/2" CW TO (N) WATER HEATER.
17 1-1/4"HW AND 3/4"HWR RISERS SERVING 2ND FLR LOCATED IN LINE WITH WALL ABOVE.
18 1-1/4" CW ROUTED OVERHEAD.
19 POC OF 1" CD TO (E) 1"CD WITHIN CRAWLSPACE.
20 (E) STORM DRAIN SYSTEM WITH (E) CD DISCHARGE. PROVIDE AIR GAP.
21 3/4"CD ROUTED DOWN WITHIN (N) WALL TO CRAWLSPACE.
22 2" CW BG TO POC. SEE SITE PLAN FOR CONTINUATION.
23 POC OF 2"S BG. SAW-CUT AND PATCH AS REQUIRED.
24 1/2" CW DN TO TRAP PRIMER IN WALL WITH ACCESS PANEL.
25 NOT USED.
26 (N) SINK. RE-CONNECT TO (E) S, V, CW & HW WITHIN WALL.
27 3/4" CW DN TO (N) SUPPLY BOX FOR REFRIGERATOR.
28 (N) ELECTRIC WATER HEATER INSTALLED PER DETAIL A14 ON SHEET X/800.
29 TERMINATE CD DISCHARGE INTO (E) STORM DRAIN SYSTEM AIR GAP.

GENERAL NOTES

A. SEE DETAIL J1 / X/P800 FOR TYPICAL UTILITY TRENCH.
B. SEE DETAIL J4 / X/P800 FOR TYPICAL CLEANOUTS, AND E4 / X/P800 FOR TYPICAL WALL CLEANOUTS.
C. SEE DETAIL J8 / X/P800 FOR TYPICAL PIPE HANGER SUPPORTS FOR PIPE 2" AND SMALLER.
D. SEE DETAIL A1 / X/P800 FOR TYPICAL PIPE HANGER SUPPORTS FOR PIPE 2-1/2" AND LARGER.
E. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. MAY BE SHOWN OFFSET FOR CLARITYAND SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID INTERFERENCES.
F. SEE DETAIL N1/X/P800 FOR FLOOR FIRE STOPPING & E8/X/P801 FOR WALL FIRE STOPPING.

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Architect

No.	Revision/Submission	Date

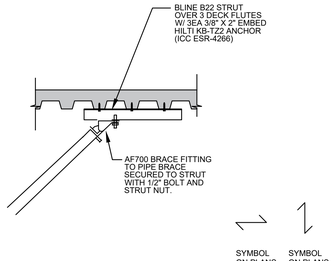
Revision

		Designed By: JS	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: JS	A/P101
Project Number:	2024	Checked By: HB	
Date:	08/26/2022	Reviewed By: JS	

A1
1/8" = 1'-0"
PLUMBING PLAN - FIRST FLOOR

7/27/2023 4:49:29 PM

AD2-PX02

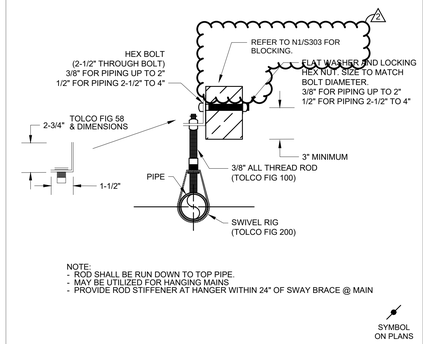


N4 AFCON FIG 700/778 ATTACHMENT TO CONCRETE STRUCTURE

NTS

N7 NOT USED

NTS



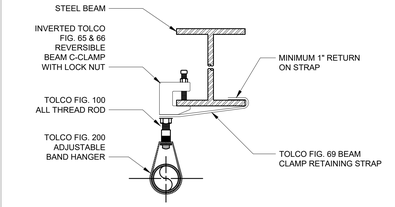
NOTE:
- ROD SHALL BE RUN DOWN TO TOP PIPE.
- MAY BE UTILIZED FOR HANGING MAINS.
- PROVIDE ROD STIFFENER AT HANGER WITHIN 24" OF SWAY BRACE @ MAIN

SYMBOL ON PLANS

N11 TOLCO FIG 58 THREADED SIDE BEAM BRACKET

NTS

** WHERE HANGERS OR BRACING ANCHORS/CLAMPS ARE INSTALLED ON THE BOTTOM FLANGE OF A BEAM, BOTTOM FLANGE BRACING ON ONE SIDE OF THE CLAMP MUST BE INSTALLED. **



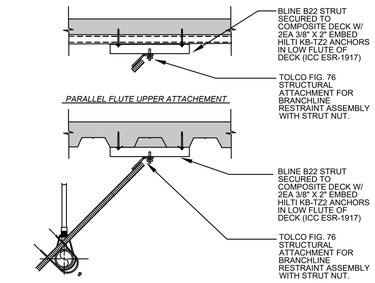
TOLCO FIG 200 HAS THE LOWEST MAX LOAD IN LBS. OF ALL HANGER COMPONENTS. THE TABLE BELOW REFLECTS THE MAXIMUM WEIGHT IN LBS. FOR THESE HANGERS.

1"	400
1-1/2"	400
2"	400
4"	1000

SYMBOL ON PLANS

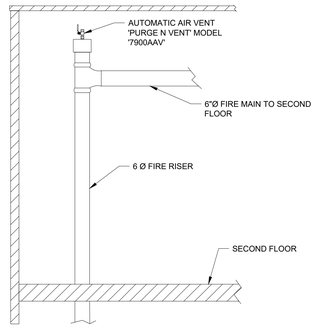
N14 REVERSIBLE BEAM C-CLAMP WITH RETAINING STRAP (BEAM)

NTS



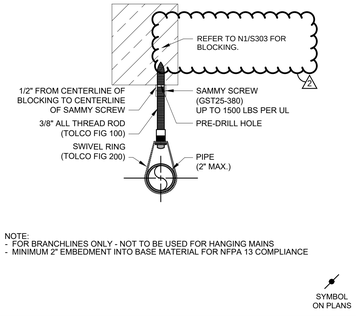
J4 CADDY BRANCHLINE RESTRAINT SYSTEM TO CONCRETE STRUCTURE DETAIL

NTS



J7 AUTOMATIC AIR VENT DETAIL

NTS

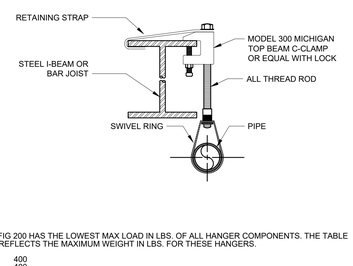


NOTE:
- FOR BRANCHLINES ONLY - NOT TO BE USED FOR HANGING MAINS
- MINIMUM 2" EMBEDMENT INTO BASE MATERIAL FOR NFPA 13 COMPLIANCE

SYMBOL ON PLANS

J11 SAMMY SCREW AND ROD

NTS



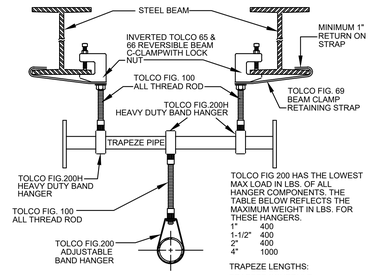
TOLCO FIG 200 HAS THE LOWEST MAX LOAD IN LBS. OF ALL HANGER COMPONENTS. THE TABLE BELOW REFLECTS THE MAXIMUM WEIGHT IN LBS. FOR THESE HANGERS.

1"	400
1-1/2"	400
2"	400
4"	1000

SYMBOL ON PLANS

J14 TOP BEAM C-CLAMP WITH RETAINING STRAP (BEAM)

NTS



TOLCO FIG 200 HAS THE LOWEST MAX LOAD IN LBS. OF ALL HANGER COMPONENTS. THE TABLE BELOW REFLECTS THE MAXIMUM WEIGHT IN LBS. FOR THESE HANGERS.

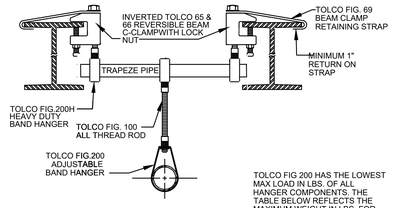
1"	400
1-1/2"	400
2"	400
4"	1000

TRAPEZE LENGTHS:

TRAPEZE SCHEDULE:
- 4" SCH 10 AT 6'-0
- MODULUS = 0.51
- MINIMUM TRAPEZE PIPE IS 2" SCH 40

E4 REVERSIBLE BEAM C-CLAMP WITH PIPE TRAPEZE HANGER

NTS



TOLCO FIG 200 HAS THE LOWEST MAX LOAD IN LBS. OF ALL HANGER COMPONENTS. THE TABLE BELOW REFLECTS THE MAXIMUM WEIGHT IN LBS. FOR THESE HANGERS.

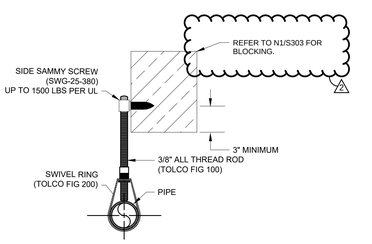
1"	400
1-1/2"	400
2"	400
4"	1000

TRAPEZE LENGTHS:

TRAPEZE SCHEDULE:
- 4" SCH 10 AT 6'-0
- MODULUS = 0.51
- MINIMUM TRAPEZE PIPE IS 2" SCH 40

E7 BEAM C-CLAMP WITH PIPE TRAPEZE HANGER

NTS

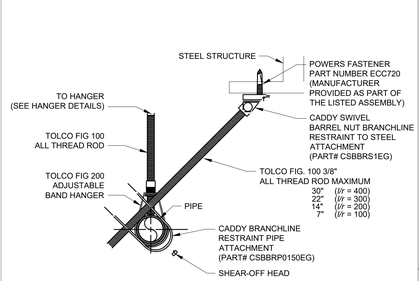


NOTE:
- ROD SHALL BE RUN DOWN TO TOP OF PIPE.
- MAY BE USED FOR UP TO AND INCLUDING 3" PIPING.
- PROVIDE ROD STIFFENER AT HANGER WITHIN 24" OF SWAY BRACE @ MAIN

SYMBOL ON PLANS

E11 SIDE SAMMY SCREW

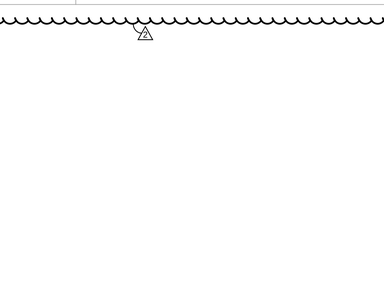
NTS



SYMBOL ON PLANS

E14 CADDY BRANCHLINE RESTRAINT SYSTEM TO STEEL DETAIL

NTS

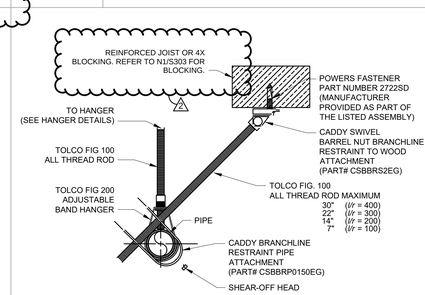


NOTE:
- ATTACHMENT TO STRUCTURE VIA THROUGH BOLTS
- REFER TO SWAY BRACE CALCULATION REPORTS

SYMBOL ON PLANS SYMBOL ON PLANS

A8 AFCON FIG 700 / 778 ATTACHMENT TO WOOD STRUCTURE

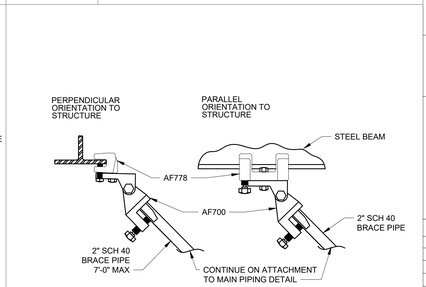
NTS



SYMBOL ON PLANS

A11 CADDY BRANCHLINE RESTRAINT SYSTEM TO WOOD STRUCTURE DETAIL

NTS



SYMBOL ON PLANS SYMBOL ON PLANS

A14 AFCON FIG 700 / 778 ATTACHMENT TO STEEL BAR JOIST

NTS

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

General Notes

NET POSITIVE
consulting
engineers
www.NPCeng.com
project no. 1197

Consultant

Project

TYPICAL INFORMATION
FIRE PROTECTION DETAILS

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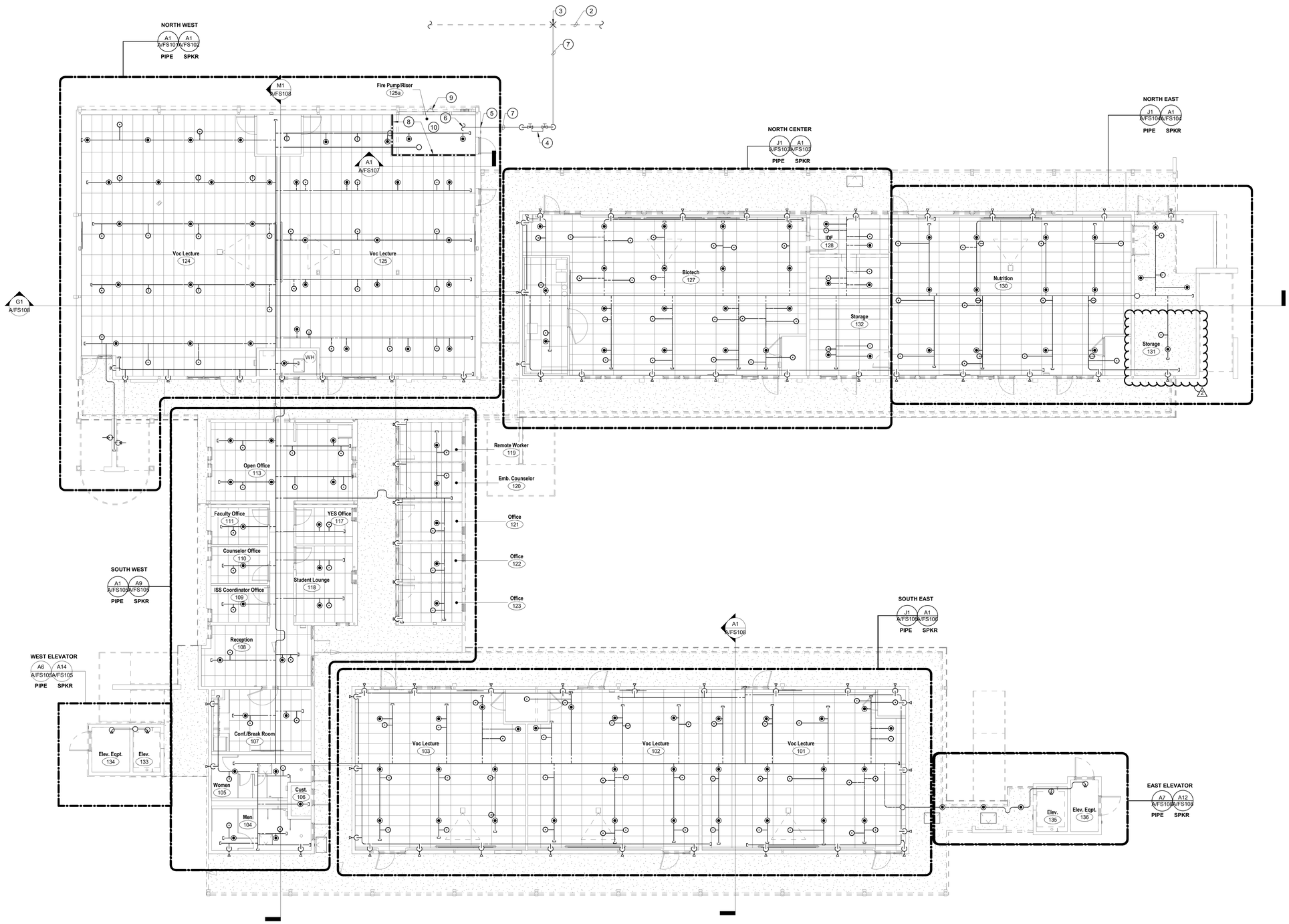
Architect

No.	Revision/Submission	Date

Revision

		Designed By:	Copyright Darden Architects
Scale:	NTS	Drawn By:	
Project Number:		Checked By:	X/FS102
Date:		Reviewed By:	

AD2-FSX01



DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

KEYNOTES (#)

1. NOT USED.
2. (E) 8" WATER MAIN LOCATED WITHIN PARKING LOT. POTHOLE TO VERIFY EXACT LOCATION.
3. POC OF 6" FIRE TO (E) 8" WATER MAIN.
4. BACK FLOW PREVENTION DEVICE ABOVE GRADE IN PLANTER. WATTS LF757DCDA SERIES.
5. BACKFILL PIPE PENETRATION UNDER BUILDING FOOTING WITH CEMENT SLURRY EXTENDED 2' BEYOND FOOTING BOTH DIRECTIONS.
6. FIRE SPRINKLER RISER INTO FIRE PUMP ROOM.
7. 6" FS ROUTED UNDER GROUND.
8. 1-HR FIRE RATED WALL.
9. PROVIDE FIRE ALARM ON EXTERIOR WALL OF THE FIRE PUMP ROOM.
10. FIRE PUMP DEFERRED SUBMITTAL.

GENERAL NOTES

1. PROVIDE ROD STIFFENERS ON MAIN AND BRANCH PIPE HANGERS FOR 2" AND ABOVE.

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1197

Consultant

Career Technical Education Building Renovation
Merced College
3600 M St, Merced, CA 95348

Project

BUILDING A
OVERALL FIRE SPRINKLER PLAN - FIRST FLOOR

Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: JS	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: YA	A/FS100
Project Number: 2024	Checked By: HB	
Date: 05/31/2022	Reviewed By: JS	

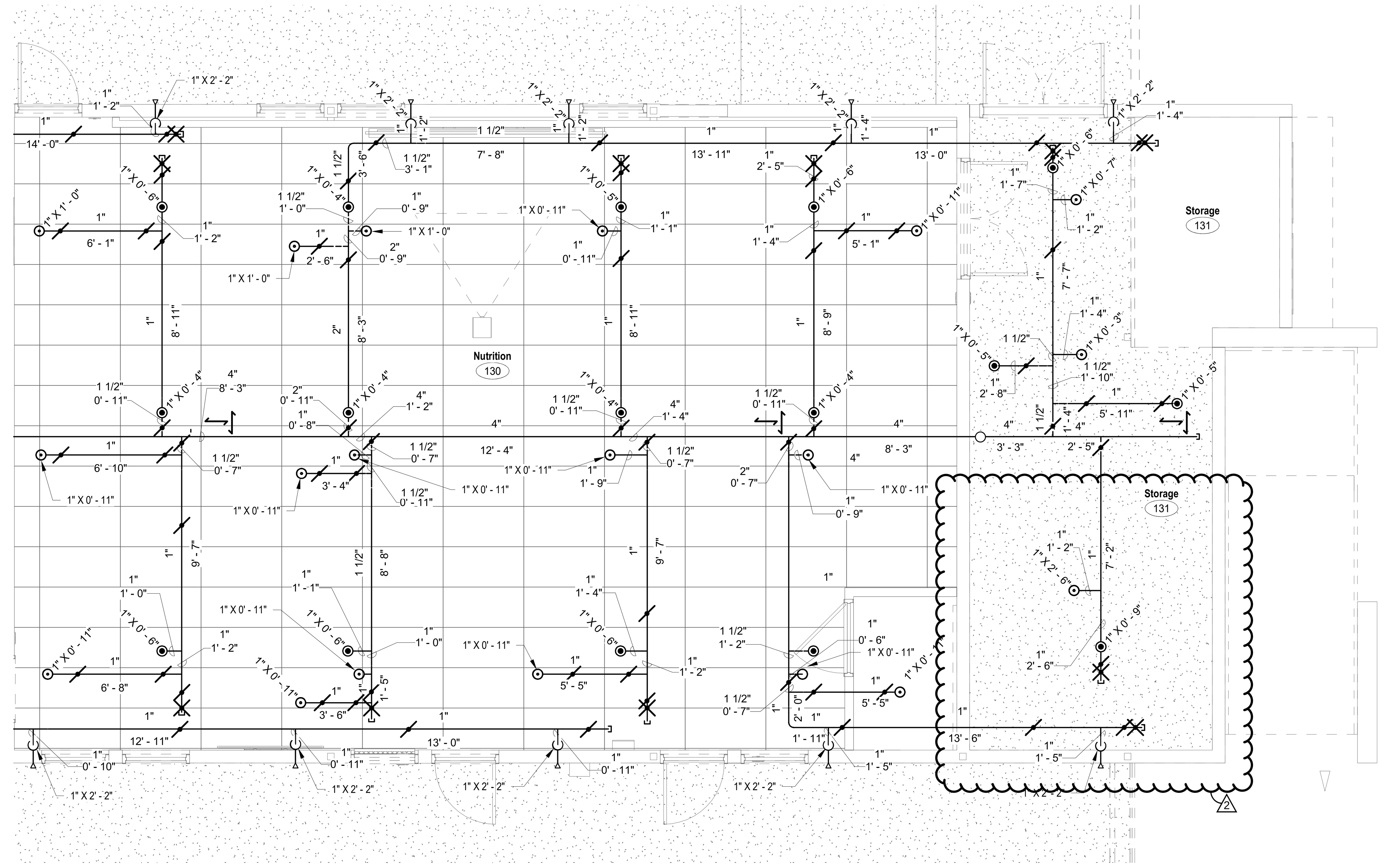
A1
1/8" = 1'-0"
OVERALL FIRE SPRINKLER PLAN - FIRST FLOOR

AD2-FSX02

7/28/2023 10:37:27 AM

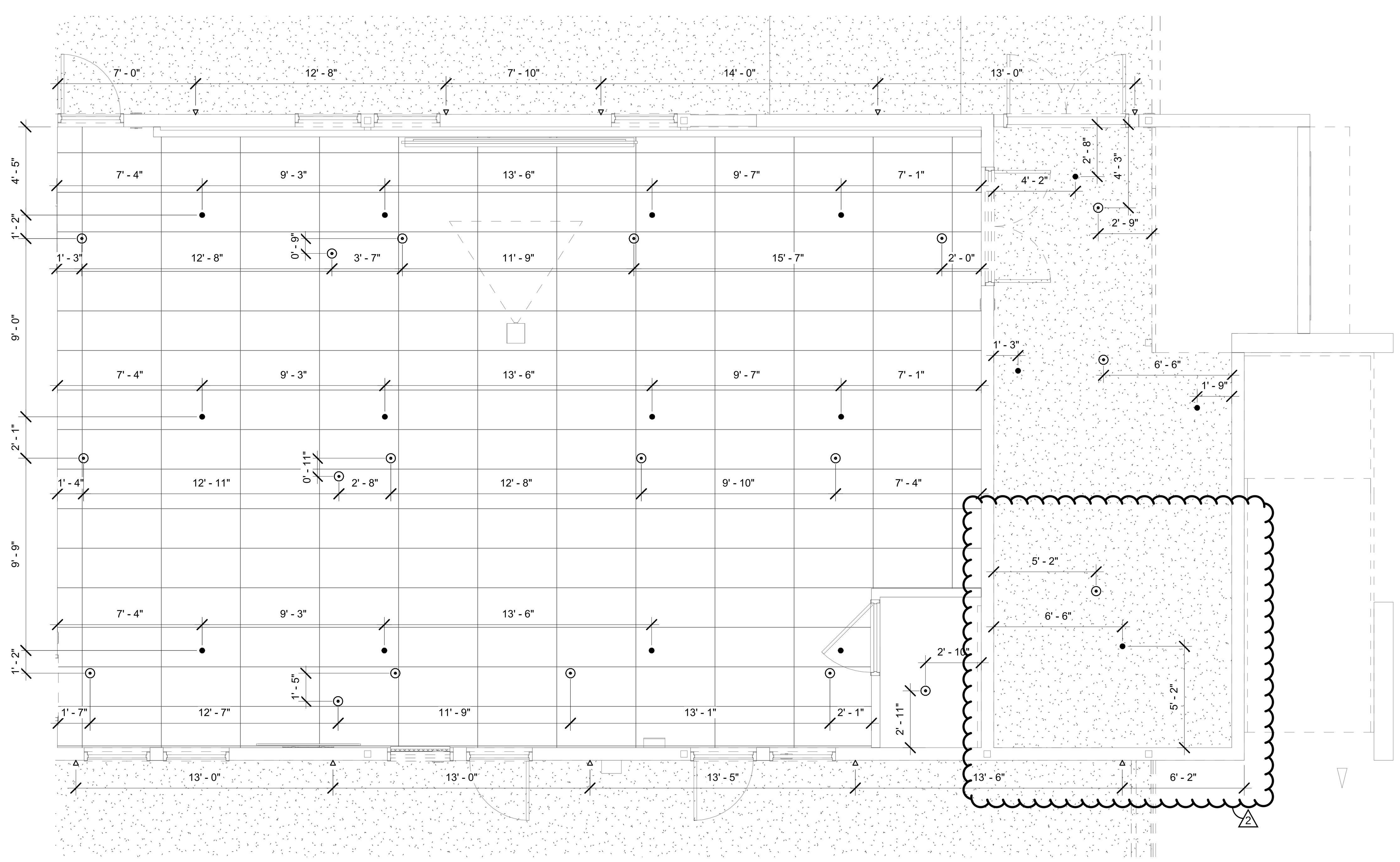
SYMBOLS LEGEND

6" 21'-0 9'-0 12'-0	PIPE DIAMETER, CUT LENGTH, AND SECTION LENGTHS
6" 21'-0	PIPE DIAMETER, CUT LENGTH, AND SECTION LENGTHS
	PIPE HANGER
	PIPE CHANGE IN ELEVATION
	LATERAL SWAY BRACE
	LONGITUDINAL SWAY BRACE
	4-WAY SWAY BRACE
	FLEX DROP
0	HYDRAULIC NODE
	ALARM BELL
	BRANCHLINE RESTRAINT
	BUILDING SEISMIC SEPARATION
	PIPE HANGER - STEEL



J1 ENLARGED FIRST FLOOR FIRE PIPING PLAN - NORTH EAST

1/4" = 1'-0"



A1 ENLARGED FIRST FLOOR FIRE SPRINKLER PLAN - NORTH EAST

1/4" = 1'-0"

DSA File No.:
24-C1

DSA Application No.:
02-120559

Agency Approval

GENERAL NOTES

1. PROVIDE ROD STIFFENERS ON MAIN AND BRANCH PIPE HANGERS FOR 2" AND ABOVE.

General Notes

NET POSITIVE consulting engineers
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Consultant

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3600 M St, Merced, CA 95348

Project

ENLARGED FIRE PLAN FIRST FLOOR

Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed Designer	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: Author	A/FS104
Project Number: 2024	Checked Checker	
Date: 05/31/2022	Reviewer Approver	

AD2-FSX03

7/28/2023 10:37:33 AM