ADDENDUM NO. 1

Alden Green House
11580 Walden Ave
Alden, NY 14004

Bid date: January 16th, 2026

TO: All Prospective Bidders

FROM: Ben Perkins
Hayes Construction

DATE: January 12th, 2026

** We are still awaiting some answers from the architectures. We will get the rest of the question's answers out to you as soon as they come in. Thank you for your understanding.*

Item 1:

Question: Provide the full Door Hardware specification section (incl. manufacturers/basis of design) and the complete hardware set schedule corresponding to each "Hardware Group" shown on the door schedule (sheet A501).

Answer: Refer to attached spec. and schedule.

Item 2:

Question: Identify which openings require electrified hardware and what devices are required (e.g., electrified locksets, strikes, power transfers, DPS, REX, maglocks, etc.).

a. Confirm who is responsible for access control components, power supplies, controllers, and all wiring/rough-in (Div. 28/26 vs Div. 08).

Answer: Refer to attached spec.

Electrical contractor shall be responsible for supplying Power, Wiring/rough for installation by separate owner contracted access control and security contractor.

Item 3:

Question: Confirm keying requirements (keyway, master key system level, cylinder type). Confirm whether temporary construction cores are required and the required core type/format.

Answer: Refer to attached spec.

Provide temporary construction cores for exterior man doors.

Item 4:

Question: Confirm the required finish for all hardware and whether any enhanced corrosion resistance is required for cultivation/processing areas.

Answer: Refer to attached spec.

Item 5:

Question: Confirm whether equivalent manufacturers are acceptable for hardware sets, and any approval requirements/limitations.

Answer: The hardware spec will identify acceptable manufacturers.

Item 6:

Question: A501 Door Schedule, Glazing Type #1 – ¼" tempered glass for Door HG, V & (1) One Hour Rated – who's scope is this?

Answer: Glazing Type 1 is not fire rated. The few doors that are rated on this job do not require glazing.

Item 7:

Question: Per detail 1/A503 Section – with regard to the deal tray and speak-thru. Are those items scoped to the glass and glazing sub?

Answer: Pass thru window shall be provided by the glass/glazing contractor

Item 8:

Question: Need elevations on what is expected for the kitchen and closets.

Answer: An elevation of kitchen cabinets is shown on 14/A450. There are no closets in this project. Please see attachment for more detail for the "cubbies" identified in Break Room 107

Item 9:

Question: Corridor C-01 calls for base EB-1, Uniform 103 calls for RB-1, these areas are connected, where do we want to transition into EB-1 for 103?

Answer: Revised base in Uniform 103 to be type EB-1

Item 10:

Question: In the bathrooms, do we know what walls are getting tiled and the desired height of the tile?

Answer: CT-1 is called for all walls in bathroom. Extend tile to 8' above floor. Paint GWB above, color PT-2

Item 11:

Question: Are we going to be putting RB-1 behind the lockers?

Answer: No- Lockers are specified with a closed metal base. RB-1 will stop at face of that base.

Item 12:

Question: Need spec for roof hatch.

Awaiting Architectural feed back

Item 13:

Question: Regarding railing around perimeter, what is the spacing for flashings for the railing elevation approx. 4' o/c detail 12' o/c

Answer: Spacing for the pail posts is shown on 6A105. Flash is required for each rail post.

Item 14:

Question: The TPO specs call out a welded profile rib to be added to the TPO roofs, please clarify if this is necessary and if so please clarify locations.

Answer: Welded rib profile is not required. All references to ribs in spec have been deleted.

Item 15:

Question: Schedule calls for a 10HP tank (120 gallon) mounted compressor with tank mounted dryer

a. 10HP called for is rated for 40-45 CFM
b. Schedule states 320 SCFM, which would be a much larger compressor than called for
    I. What compressor package are we to quote?

II. The schematic shows a different compressed air system with separate components and a 400 gallon tank

Answer: The correct compressor model is called out, and the required CFM is 40-45. The 320 CFM is the wrong value. The schematic will be updated to show this, the integrated 120-gal horizontal receiver tank is desired.

Item 16:

Question: On DWG M101B Office I.T. 108A does not indicate any air distribution in the room. Please advise if this is correct.

Answer: This is the data closet for the office. There is a dedicated split system for this room, no extra air is required.

Item 17:

Question: Is there any preliminary design information for owner furnished equipment/systems as mentioned on the drawings? For example:

a. CO2/Compressed Air System & Distribution
b. Netafim Irrigation System
c. Fertilizer Mixing Equipment/Distribution
d. RO Water Skid/Distribution
e. Privia Control System (design drawings mentioned on drawing notes)

Answer: We will issue an addendum for additional information on the C02 piping, compressed air piping , and RO piping. The irrigation system and Privia system are direct owner installed items that the contractor does not need to address. Plumbing contractor shall supply water to the Murry mixer at which point the fertigation contractor shall take over.

Item 18:

Question: Is there any specification for the hydronic piping?

Answer: Hydronic piping specification will be added in a revision.

Item 19:

Question: What is the scope of controls in regard to the mechanical contract? According to the responsibility matrix, the owner is bringing on a BMS contractor to install their controls system for the plants/process. Will they be handling the controls for the pre-purchased RTUs and tying any equipment into the Privia Control System?

Answer: The mechanical contractor will be required to install the controls for the AAON Prisim software. This will include all duct sensors and daisy chaining all AAON cultivation units together. From there the Privia installer will pick up the controls of the RTUs. For all non-cultivation units, the AHUs will be self-contained controls run off the Prisim software. The HVAC contractor will be responsible for all self-contained controls.

Item 20:

Question: Drawing E304 note 3 states the contractor is responsible for poles, fixtures and concrete bases. Are the concrete bases and associated excavation part of the bid package 2 electrical contract?

Answer: Bases, handholes, excavation/backfill, conduit and all facets of the primary service upgrades have been purchased through PH 1. The wiring and light poles are through this bid PH2. Please reference ph 1 documents for clarity.

Item 21:

Question: Is the electrical contractor responsible for any of the site transformers or generator concrete pads?

Answer: Concrete Pads for these items are provided by the civil contractor.

Item 22:

Question: Is contractor responsible for supplying the two mini power zones and associated feeder wiring on drawing E304. If so, please supply wiring requirements associated with these items.

Answer: Yes, wiring diagrams will be added.

Item 23:

Question: Is electrical contractor responsible for the fiber cable and cat 6 cabling in existing underground conduits referenced on drawing E305? If so, please provide details (strands and type) and specifications for these cables

Answer: EC is responsible for CAT-6 cabling. Fiber to be installed by ISP.

Item 24:

Question: Is the electrical contractors' responsibility related to the access control system in addition to the power wiring? If this contract is responsible for control

wiring, device installation, and where is the head end located. Is all control wiring required to be in conduit?

Answer: Yes Conduits can terminate at cable tray above corridor ceiling.

Item 24:

Question: Is the electrical contractors responsible for installation of the CCTV cameras and wireless access points?

Answer: Electrical contractor to provide power to locations for installation of devices by others. Please see attached preliminary layout and information for reference.

Item 25:

Question: Is the receptacle and fan referenced in note 1 mounted on electrical contractor supplied Unistrut?

Answer: Yes, this is a part of the Unistrut grid as shown on E004/2.

Item 26:

Question: Is the Unistrut grid with cross bracing referenced in note #1 on drawing E202a electrical contractor supplied?

Answer: Yes

Item 27:

Question: Is the three-tier rack referenced in note #1 on drawing E202d electrical contractor supplied?

Answer: No, three-tier rack is owner supplied.

Item 28:

Question: Specification section 262726 has a warranty requirement for the cord reels in note #5 on drawing E102b but no specification for the cord reels themselves. Please provide a model or specification.

Answer: Cord reel information will be added

Item 29:

Question: Is the electrical contractor responsible for furnishing and installing the emergency responder radio repeater system as shown in detail #6 drawing E003?

Answer: Yes, Electrical contractor to provide

Item 30:

Question: What is the electrical contractors responsibility regarding wiring and device installation for the C02 gas system referenced in notes 3 through 9 on drawing E102a

Answer: For each CO2 detection system, EC is responsible for (1) receptacle, (1) power hit, and device boxes as shown with conduits to above corridor ceiling. CO2 detection device installation. Final piping diagram is forthcoming, device installation is by EC for commissioning by Airgas.

Item 31:

Question: Drawing E001-2 lighting symbol schedule states fixtures labeled EM should be provided with a GTD switch pack. The lighting layout drawings show them associated with only a portion of the fixtures labeled EM. Which is correct?

Answer: A single GTD switchpack can be used for multiple EM fixtures on the same switch leg and circuit. Fixtures labeled as EM/NL do not require a GTD switchpack.

Item 32:

Question: Do the type WE1 & WE2 lighting fixtures require mesh control.

Answer: Yes, mesh control required for lighting setback requirements.

Item 33:

Question: Because of the electrically operated feeder breakers and the load shedding requirements, shown on the 1 line drawing E501, the factory Is asking for additional information.

a. They need to know how the load shedding software is supposed to prioritize the non priority loads, how many load shed modules there are (Note 8) and what the sequence of operations for this process is supposed to be.
b. If there is a separate spec section for the required load shedding system, this may answer these questions.

c. The information was not included in the power monitoring specification

Answer: Provide (23) load shed modules for rooftop HVAC equipment as indicated on E104. Priority list and updated sequence of operations will be added.

Item 34:

Question: Is there a specification available for the 15KV cable on this project?

Answer: Medium voltage cable specification will be added.

Item 35:

Question: What type of Unistrut and rod will be required for the mounting of the grow lights?

Answer: Hot dip galvanized

Item 36:

Question: Drawing shows a 50KAIC rating next to it. This is a 100 Amp ATS being fed by a 50 amp breaker on the utility side. Spec also calls for 30cycle rating. This is upsized to a 1000 Amp ATS if we had to comply.

Answer: 50KAIC rating is required. 30 Cycle rating is not required. Spec will be updated.

Item 37:

Question: Spec calls for ATS to be Service Entrance Rated. Technically does not need to be.

Answer: Service Entrance Rating is not required for ATS-EM. Spec will be updated.

Item 38:

Question: Spec calls for ATS remote annunciator. Do they really need this?

Answer: Remote annunciator is not required for ATS-EM. Spec will be updated.

Item 39:

Question: Are we OK with standard open transition or do we need delayed transition? This is just a life safety panel. I don't think delayed transitions would be needed.

Answer: Open transition is correct for ATS-EM.

Item 40:

Question: For room 129A (Cold Storage Room) and room 129B (Walk in Freezer)

- Drawing M002 under Spit System Schedule
- FCU-6A 6B
- FCU-7A 7B
- The nominal cooling capacity listed for them is I believe to be incorrect.

Answer: The schedule had the wrong units selected for the freezer coolers.

Item 41:

Question: Using a standard load calculation chart for BTU/H for walk in coolers and freezers I charted below

- A walk-in cooler (129A) of that size box should have at the minimum a BTU/H of 31,000 for average use at 35F

- A walk-in freezer (129B) of that size box should have at the minimum a BTU/H of 17,500 for average use at -10F
- I need clarification if what is listed on drawing M002 is the actual BTU/H you want the refrigeration sized for?

Answer:

- For the cooler units we need a capacity of 32,000 BTUH.
- For the Freezer units we need a capacity of 20,000 BTUH.
- Will update plans this week with an updated drawing fixing the schedule.

Security Plan

Symbol	Description	QTY	
	360 Degree Fisheye - 5MP	25	Cat 6 Home Run to Server Rack
	4MP Fixed IP Dome Camera	85	Cat 6 Home Run to Server Rack
	Aiphone Master Station Aiphone Door Station	1 1	Cat 6 Home Run to Server Rack 22/4 Device to controller
CR	Access Control - HID Prox Card Reader/ Door Strike / Controller & Sensors	30	Cat 6 HR for Controller // 22/8 Controller to RFID 22/4 Controller to Strike & Door Sensor
CR	Secondary Reader for Receptionist to open Lobby Doors	2	22/4 From Controller to Reader
	Combo Reader / Keypad	2	22/4 From Controller to Reader
D	Door Contact Recessed (Alarm System) Over Head Door Contact	13	22/4 Home Run to Alarm Panel
M	Motion Sensor	10	22/4 Home Run to Alarm Panel
H	Hold Up Button (Silent / Audible Alarm)	12	22/4 Home Run to Alarm Panel
SA	Sounder Alarm	2	18/4 Home Run to Alarm Panel // 12v Transformer
K	Alarm System Keypad (Building)	1	22/4 Home Run to Alarm Panel
AB	Alarm Panel Box Expansion Panel	1 3	Cat 6 Home Run to Server Rack (Communicator) 12v Transformer
	32" Security Monitor	1	HDMI Cable to NVR
S	Two Post Server Rack Wall Mounted Enclosure	1 2	Bolt to Floor in IT Room Bolt to Wall where designated

New York - (jpr)

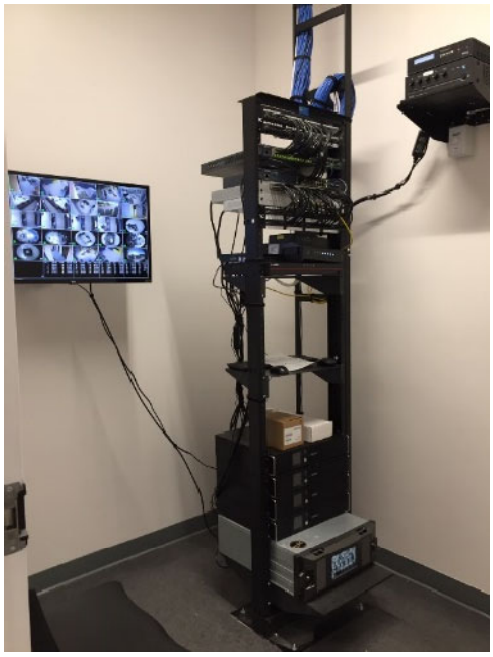
Video Surveillance

The CCTV system selected for installation will use IC Realtime cameras and Network Video Recorders.

This equipment is easily expandable, interchangeable, and requires no initial license purchase, or annual renewable licenses for individual cameras, or the NVR. It is not windows based, and therefore, does not require patching every few months or upgrading annually. There are no additional cost to keep this system operational for the next ten years, or longer.

The fixed dome cameras will be IC Realtime 2MP Fixed Dome Cameras. This camera features the latest generation 2.8mm progressive scan STARVIS CMOS. This camera is capable of mainstream recording of 1080P/30FPS, H.265/H.264 compression capable, POE, and weather and vandal resistant. This camera adopts a popular small dome housing and supports infrared (IR) illumination up to 98 feet. With a larger image sensor, this camera supports a large dynamic range (120dB) and is considered a “True” WDR camera. On top of the image sensor is a fixed 2.8mm lens that offers up to 110 degrees of horizontal field of view. This makes this camera well suited for interior and exterior applications.

Thew use of fisheye 360 degree cameras will be utilized throughout the facility. H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

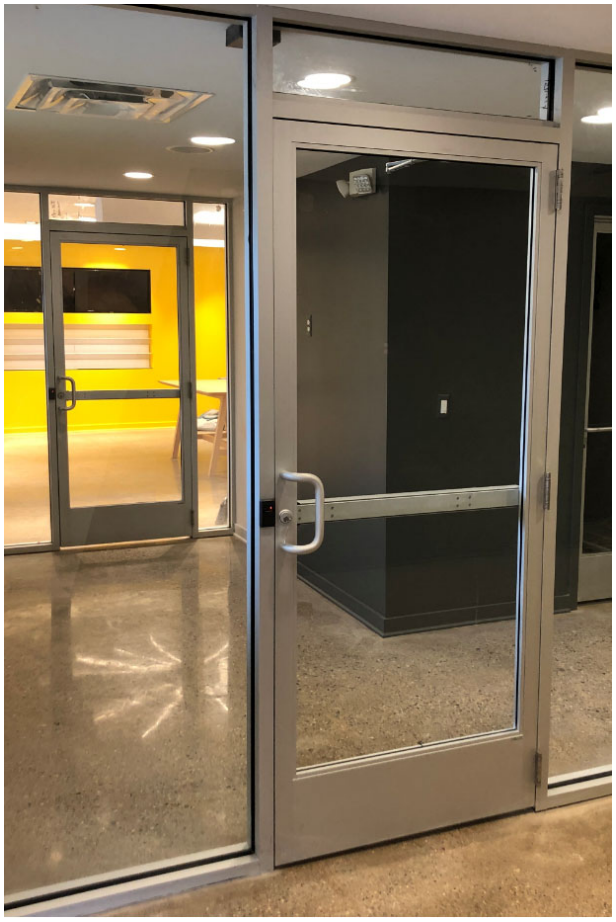


All video will be captured and recorded on threee (3) 64 channel 4K Network Video Recorders (NVR) installed into a centralized data rackrack. The NVR-EL64-2U12MP1 features dual gigabit network ports, 4K resolution dual HDMI output, and up to 12MP camera support in a robust, 2U rack-mountable package. This 64 channel NVR is built to handle high-resolution cameras with up to 80TB of total storage, easily accessible through the front panel. This NVR also supports IVS and AI IC Realtime cameras with Tripwire, Intrusion, Perimeter Protection and Intelligent Motion Detect and Face detect functions. Other features include

ANR support, which recovers lost footage in case of network failure from the IP camera's SD card as well as Fisheye Dewarp and N+M Hot standby with RAID 0/1/5/6/10 support. The NVR is also ONVIF compliant, making it compatible with most third-party IP camera manufacturers.

This NVR will be more than capable of recording and storing 90 days of video at a minimum of 10 FPS in HD (1080P) quality. The NVR has a real time live view interface that can be viewed from any web browser, iPhone, iPad, or Android device.

Access Control



We are proposing a 3xLogic Platform with eIDC door controller kits. The infinias Single Door Add Kit with HID Prox Reader, Door Strike and Sensors are designed for a sleek install mindful of aesthetics.

The infinias Single Door Add Kits are POE enabled and will support one door with two Wiegand readers for controlled access from both sides, or two separate locations, such as from a receptions station and at the door. The infinias door controller retains memory in the unlikely event the access control server would ever fail, each controlled door would still be accessible using the programed HID cards.

Over the past several years JAHCO has installed over 5000 of the infinias door kits, with as many as 100 in a single facility.

The IP-based door controllers can be pre-programed prior to installation, or programed after installation using the provided PC which will be connected to the Access Control Server and the VSS.

The 3xLogic Access Control platform is fully programmable and provides the ability for scheduled access for individual doors, and programmed levels of access for individual card holders.

This system will facilitate the scheduling of a delivery garage door so only one door can be opened at a time i.e., the interior man-door cannot be opened while the garage door is open, and vise-versa.

Network Firewall / Switches / Wireless

We will use Unifi UDM Pro firewall in addition to Unifi Pro Gigabit Managed POE Network Switches for this project. These switches will support both the CCTV, access control devices, and the IT data network. The Unifi Gigabit Managed POE+ switches are powerful, full-featured platforms. These POE switches offer enterprise-class features, simplified network configuration, monitoring, and robust management options. Gigabit Managed POE+ provides for future expandability for broader device connectivity and management. All wireless access points (WAPs) will be Unifi Long Range (LR) U7 configured and managed in the Unifi Cloud platform.

Alarm System

A DSC NEO alarm system will be installed. This system is currently used in other cannabis facilities and is fully compliant with state regulations. All motion, door, and glass break will be installed according to the above plan. Panic buttons will be wired and configured in separate zones for duress and hold up. All the installed alarm devices will be hard wired into the alarm panel. We will also be installing a NEO Dual Path Communicator (DPC) with this system. The DPC allow for two pathways of communicating with the central alarm monitoring stations: cellar and via internet.

CO2METER.COM
CO2 MEASUREMENT SPECIALISTS

RAD-0102-6
REMOTE CO_2 STORAGE SAFETY 3 ALARM

Our #1 CO_2 Remote Storage Safety Device

The Remote CO_2 Storage Safety 3 Alarm detects carbon dioxide (CO2) levels in ambient air. This protects employees and guests from potentially hazardous gas concentrations. The RAD-0102-6 features audible and visual alarms that can trigger three individual relays. These relays can trigger third-party devices like exhaust systems and fire panels. Ensure the safety of your employees and guests as well as the compliance of your facility with the CO_2 Storage Safety 3 Alarm.

Features

- LCD display clearly indicates current CO_2 level in ppm or % and temperature
- 3 alarms/relays
- Relays can automatically control ventilation fans or signal a fire alarm panel
- Meets **NFPA**, **IFC**, and **NBIC** requirements
- Meets **OSHA** and **NIOSH** TWA standards
- IP54 Enclosure
- UL listed for compliance

Accessories

- CM-1026 | Dual Strobe Add-On Kit
- RAD-0104 | Additional Remote Display
- CM-1026-5,6 | CO_2 Storage Safety Strobe Tower
- SV-1026 | Solenoid Shut-off Valve

Applications

- Restaurant & Food
- Breweries and Wineries
- Beverage Dispensing
- Agriculture
- Safety

FUN FACT

The **RAD-0102-6** not only meets the **NFPA 55** and **National Board Inspection Code**, it also meets international codes such as United Kingdom (**COSHH**) and Australia **AS5034 -2005** concerning installation and use of inert gases for beverage dispensing.

CO_2 Measurement Specialists

Speak to a Technical Sales Expert
1.877.678.4259 | Sales@CO2Meter.com

RAD-0102-6

Remote CO2 Storage Safety 3 Alarm

CO_2 Measurement Range	0-5% (0-50,000 ppm)
CO_2 Measurement	NDIR (Non-dispersive Infrared)
Alarms	5,000 TWA, 1.5% (user configurable), 3% (user configurable)
Measurement Interval	2 seconds (0.5 Hz)
Operating Temperature	32-122° F (0-50° C)
Calibration	Zero with Nitrogen or Factory Calibration
Connections	Standard RJ45
Sensor Life Expectancy	>15 years

Electrical and Mechanical Specifications

Power Supply	110-220 VAC 50/60 Hz to 12 VDC power adapter
Power Input	4.5-5.25 VDC
Power Consumption	3 Watts
Hard-Wired	24 VDC hard-wired option (cable included)
Output	4-20 mA

Alarms & Relays

Response Time	<60 seconds
Alarm Level	88 dB
Relay Power	Peak current <2A @ 30 VDC or 250 VAC, SPDT
Relay Color Coding	Red & White: Normally Open, Blue & White: Normally Closed

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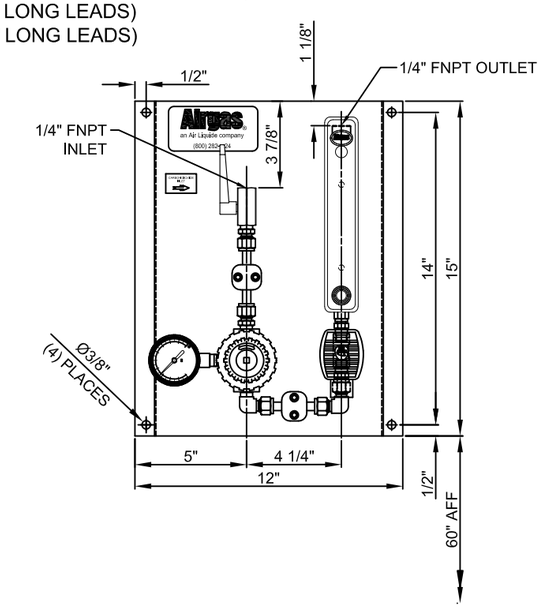
Last Update: 1-4-2021

DESCRIPTION:

GAS DISTRIBUTION MANIFOLD FOR USE IN DISTRIBUTING CARBON DIOXIDE GAS USED IN INDOOR FARMING.

P/N GP-1-2-110VAC (72" LONG NEMA 5-15 LEADS)
P/N GP-1-2-24VAC (15" LONG LEADS)
P/N GP-1-2-24VDC (15" LONG LEADS)



INSTALLATION:

1. BEFORE INSTALLATION VERIFY THAT THE MOUNTING PLATE IS NOT BENT OR DAMAGED IN ANY WAY AND THE TUBING AND COMPONENTS ARE IN GOOD ORDER.
2. LOCATE THE PANEL AS REQUIRED PER BUILDING DESIGN/LAYOUT.
3. IT IS RECOMMENDED TO MOUNT THE PANEL AT EYE LEVEL. APPROXIMATELY 60" AFF.
4. MOUNT DIRECTLY TO A WALL OR OTHER VERTICAL SURFACE. USE APPROVED ANCHORS FOR THE GIVEN WALL CONDITION AND MOUNT AS REQUIRED. ANCHORS TO BE SIZED TO SUPPORT THE PANEL WEIGHT.
5. UTLIZING A GAS DETECTOR NEAR THE INJECTION PANEL IS STRONGLY RECOMMENDED.

SPECIFICATIONS

MAWP:	100 PSIG
RECOMMENDED INLET PRESSURE:	70-80 PSIG
OUTLET PRESSURE:	0-60 PSIG
RECOMMENDED OUTLET PRESSURE:	40 PSIG
OPERATING TEMPERATURE:	32°F - 104°F
INLET SIZE:	1/4" FNPT
OUTLET SIZE:	1/4" FNPT
HEIGHT:	15"
WIDTH:	12"
DEPTH:	6 1/2"
WEIGHT:	10 LB.

WARNING

THIS PRODUCT CAN EXPOSE YOU TO CHEMICALS INCLUDING LEAD, WHICH ARE KNOWN TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR MORE INFORMATION GO TO WWW.P65Warning.ca.gov.

THIS CARTON IS THE INTENDED UNIT OF SALE. IF YOU SELL OR OTHERWISE DISTRIBUTE INDIVIDUAL UNITS FROM IT, YOU MUST COMMUNICATE THE ABOVE WARNING TO SUBSEQUENT PURCHASERS.

SPECIAL INSTRUCTIONS FOR USE:

1. THE INITIAL FLOW SETTING FOR THE FLOW METER IS RECOMMENDED TO BE BASED ON THE FOLLOWING CALCULATION: ROOM VOLUME * 0.00181.
2. AFTER THE CARBON DIOXIDE CONCENTRATION HAS BEEN VERIFIED ADJUST FLOW SETTINGS AS REQUIRED TO MEET GROW ROOM SET POINTS.

MAINTENANCE:

1. PRESSURE REGULATORS: ADJUST REGULATOR AND MONITOR PRESSURE GAUGES TO ENSURE REGULATOR IS MAINTAINING PRESSURE. GAUGES SHOULD BE ZEROED TO ENSURE GAUGES HAVE NOT BEEN OVER PRESSURED AND DAMAGED. REGULATORS AND GAUGES SHOULD BE CHECKED EVERY 6 MONTHS.
2. SOLENOID VALVE TO BE TESTED FOR FUNCTION AND TO ENSURE TO BE LEAK FREE.
3. GAS DETECTORS USED WITH THE SYSTEM SHOULD BE INSPECTED TESTED PER THE MANUFACTURERS INSTRUCTIONS.

TROUBLESHOOTING:

PROBLEM	CAUSE	SOLUTION
REGULATOR WEEPING	LEAKING O-RING	REPAIR/REPLACE REGULATOR
REGULATOR NOT SEALING		
REGULATOR KNOB WON'T TURN	KNOB LOCKED	GENTLY PULL ON KNOB DIRECTLY AWAY TO UNLOCK IT.
SOLENOID WON'T OPEN	NO POWER	VERIFY POWER IS ACTIVE AND CHECK CONTROLLER.
EXCESSIVE SOLENOID NOISE*	INCORRECT VOLTAGE	CHECK VOLTAGE AND CORRECT.
	SOLENOID VALVE FAILING	REPLACE SOLENOID VALVE

IF YOU ARE CONTINUING TO HAVE ISSUES OR NEED ADDITIONAL SUPPORT CONTACT AIRGAS AT: **AskAES@Airgas.com**

WARNING:

1. THE WARNINGS IN THIS INSTALLATION AND MAINTENANCE (I&M) MANUAL ARE PROVIDED TO SUPPLEMENT THE SAFETY POLICIES OF THE END USER'S COMPANY, THE POTENTIAL ISSUES WITH EQUIPMENT AND MATERIALS WITHIN THE AREA WHERE THE EQUIPMENT IS LOCATED, RELEVANT SAFETY EQUIPMENT WITHIN THE AREA AND THE SAFE OF USE OF THE EQUIPMENT REFERENCED IN THIS I&M.
2. THE SAFETY DATA SHEET (SDS) FOR CARBON DIOXIDE HAS BEEN SUPPLIED WITH THE PRODUCT SUPPLY AGREEMENT (PSA). THE SDS SHEETS ARE TO BE READ CAREFULLY BEFORE USING THE SYSTEM OR EQUIPMENT TO BE FAMILIAR WITH THE RELEVANT HAZARDS ASSOCIATED WITH USING CARBON DIOXIDE. IF YOU HAVE NOT RECEIVED AN SDS CONTACT AIRGAS FOR A CURRENT VERSION OF THE SDS.
3. THE SYSTEM CONTAINS CARBON DIOXIDE UNDER PRESSURE. THERE MAY ALSO BE ELECTRICAL VOLTAGES UP TO 120 VAC. THE SYSTEM IS NOT TO BE USED BY UNTRAINED OPERATORS. USERS MUST BE AT A MINIMUM TRAINED IN THE FOLLOWING:
   - 3.1. OPERATION OF THE SYSTEM
   - 3.2. HANDLING AND USE OF CARBON DIOXIDE OR OTHER RELEVANT GASES OR LIQUIDS USED WITH THE SYSTEM.
   - 3.3. HANDLING OF GASES OR LIQUIDS UNDER PRESSURE.
   - 3.4. RELEVANT SAFETY EQUIPMENT, INCLUDING PERSONAL PROTECTIVE EQUIPMENT (PPE).
   - 3.5. EMERGENCY SHUTDOWN PROCEDURES, SWITCHES, VALVES OR OTHER RELEVANT ALARM SYSTEMS, SUCH AS GAS DETECTORS AND GAS DETECTION SYSTEMS.
4. DO NOT USE CARBON DIOXIDE IN A CONFINED SPACE WITHOUT THE USE OF APPROPRIATE GAS MONITORING. THE USE OF CARBON DIOXIDE GAS DETECTION IS STRONGLY RECOMMENDED.
5. CARBON DIOXIDE IS TOXIC. THE OSHA THRESHOLD LIMIT VALUE (TLV) IS 5,000 PPM.
6. THE SYSTEM HAS BEEN DESIGNED AND TESTED FOR SAFE AND EFFICIENT OPERATION. CHANGES NOT APPROVED BY AIRGAS WILL VOID THE WARRANTY AND MAY RESULT IN UNPREDICTABLE RESULTS.

REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
0	03/13/23	RELEASED FOR INSTALLATION	CGW	BNR	CGW

TOLERANCES UNLESS OTHERWISE NOTED.
DEBURR PART UNLESS OTHERWISE NOTED.
NORMAL MACHINE FINISH UNLESS OTHERWISE NOTED.

ANGLE	±1/2°
FRAC.	±1/64
.XX	±.010
.XXX	±.005
.XXXX	±.0005

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an Air Liquide company

SCALE NTS	ALTEC Engineering Solutions	DRAWN BY CGW
DATE 03/13/23		CH'KD BY BNR

CO2 INJECTION PANEL – SINGLE ROOM
INSTALLATION & MAINTENANCE MANUAL

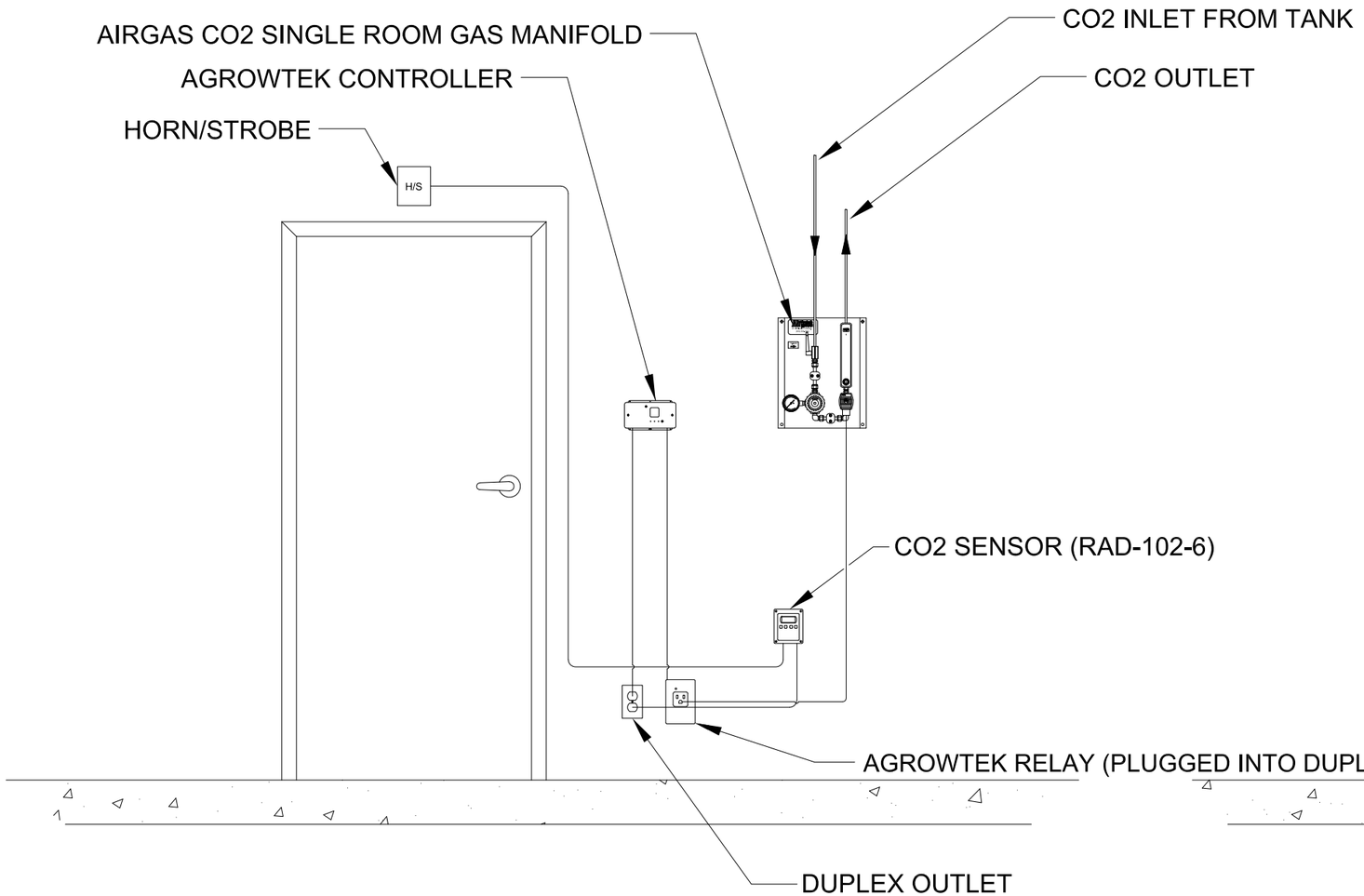
SHEET NUMBER	PROJECT NUMBER	DRAWING NUMBER
001:001		14–000–1009B

CO2 GAS SAFETY MONITOR
Description - RAD-102-6 CO2 Room Monitor
Wall Mountable
Dimension- 6.7" x 5.0" x 2.75"
Digital Display
Range - 0 to 50,000 ppm
Alarm Points
- 5,000 ppm
- 15,000 ppm
- 30,000 ppm
- Set Points Configurable

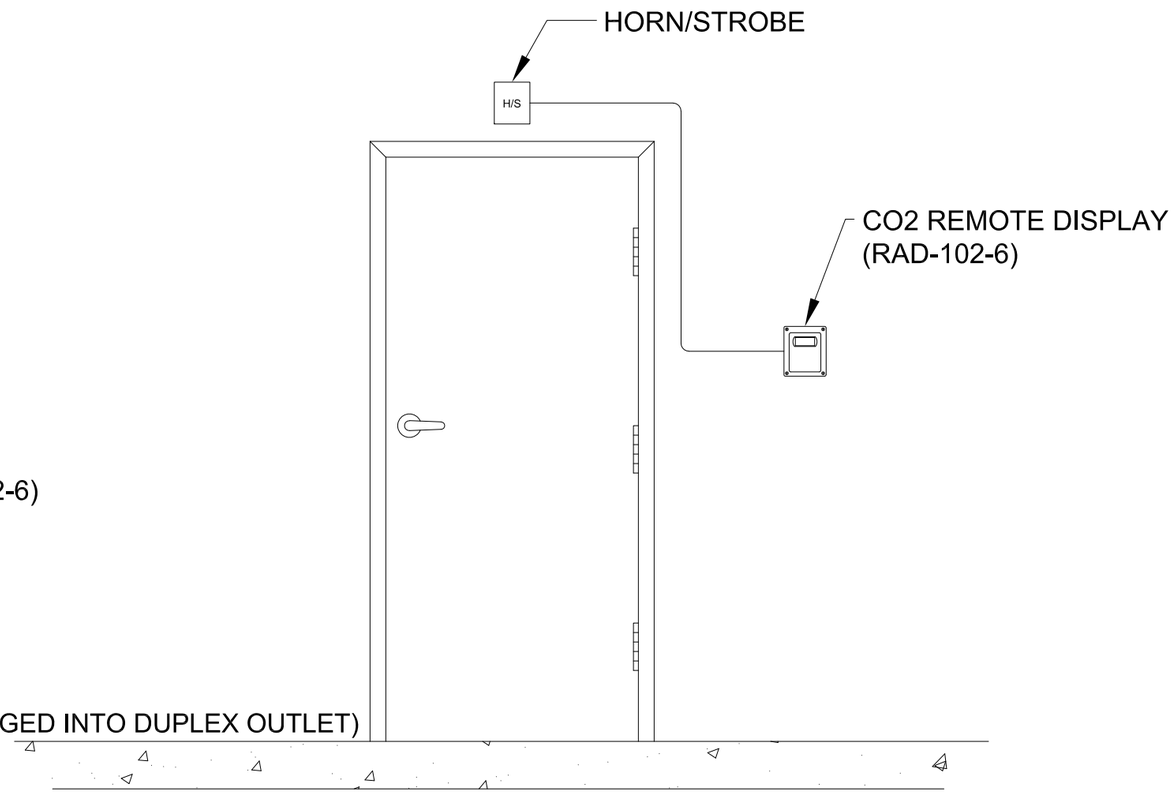
To Be Mounted 12" From The Floor.

AIRGAS CO2 SINGLE ROOM GAS MANIFOLD
Description - Single Point Gas Control (1 Inlet / 1 Outlets)
Inlet Pressure - 80-100 psig
Regulated Operating Pressure - 40 psig
Gas Delivery Rate - 0-200 scfh (0-23 lbs/hr)
Dimensions - 15" Tall x 12" Length
Wall Mountable
Inlet/Outlet Connection: 1/4" FNPT / Inlet on Left & Outlets on Right
Electrical Control Input: 110 VAC
See Drawing 04-000-1200C for General Arrangement

CO2 GAS PROCESS CONTROLLERS
Description - Agrowtek SXE Controller/RX1 Relay Module
Electrical Input: 110VAC/60Hz
Electrical Rating: 15A @ 120V
0-5,000ppm CO2 Set Point Range
Digital Display of CO2 ppm Levels in Room
+/-50 PPM Accuracy
Dimensions: Outlet Relay Module- 6"X4"X2"
Wall Mounted Controller- 7"X4"X3"
Mounted Inside Grow room/Near Power Outlet and CO2 Enrichment Panel



VIEW - INSIDE ROOM



VIEW - OUTSIDE ROOM

NOTES:

1. CO2 MONITORS, WARNING SIGNS, AUDIO/VISUAL ALARMS, E-STOPS AND SAFETY SHUT-OFF VALVES ARE RECOMMENDED TO BE INSTALLED IN ANY AREA WHERE CO2 LEVELS COULD INCREASE TO UNSAFE LEVELS.

REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY
2	12/06/18	CHG'D TO AGROWTEK CTRLR	MLF	BAF	CGW
1	06/04/18	REVISED STANDARD	MLF	BAF	CGW
0	11/16/17	ISSUED AS STANDARD	MLF	BAF	CGW

TOLERANCES UNLESS OTHERWISE NOTED.
DEBURR PART UNLESS OTHERWISE NOTED.
NORMAL MACHINE FINISH UNLESS OTHERWISE NOTED.

ANGLE	±1/2°
FRAC.	±1/64
.XX	±.010
.XXX	±.005
.XXXX	±.0005

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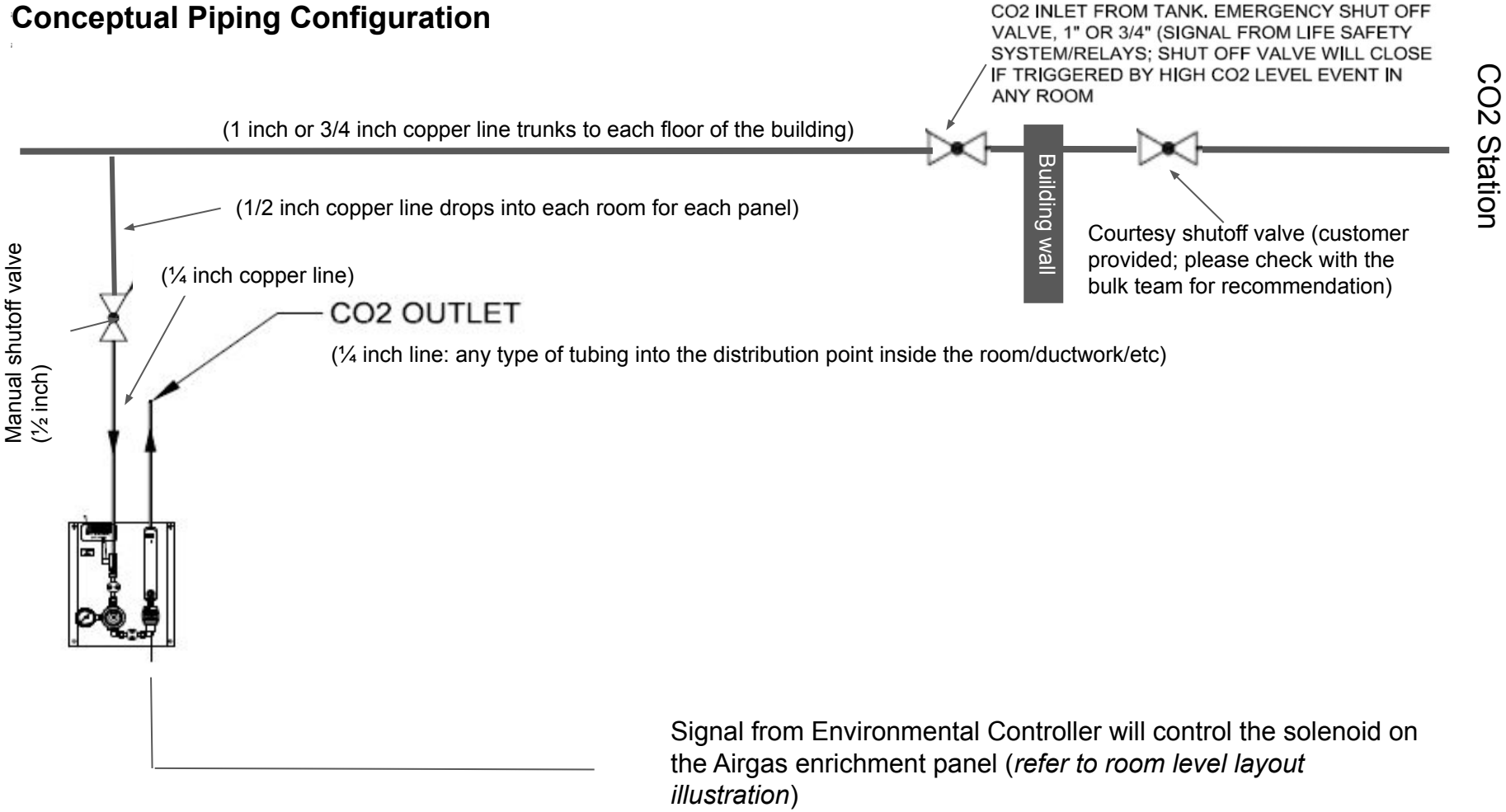
Airgas®
an Air Liquide company

SCALE NTS	ALTEC Engineering Solutions	DRAWN BY MLF
DATE 11/16/17		CH'KD BY BAF

SIMPLE CO2 SYSTEM TANK
GENERAL LAYOUT

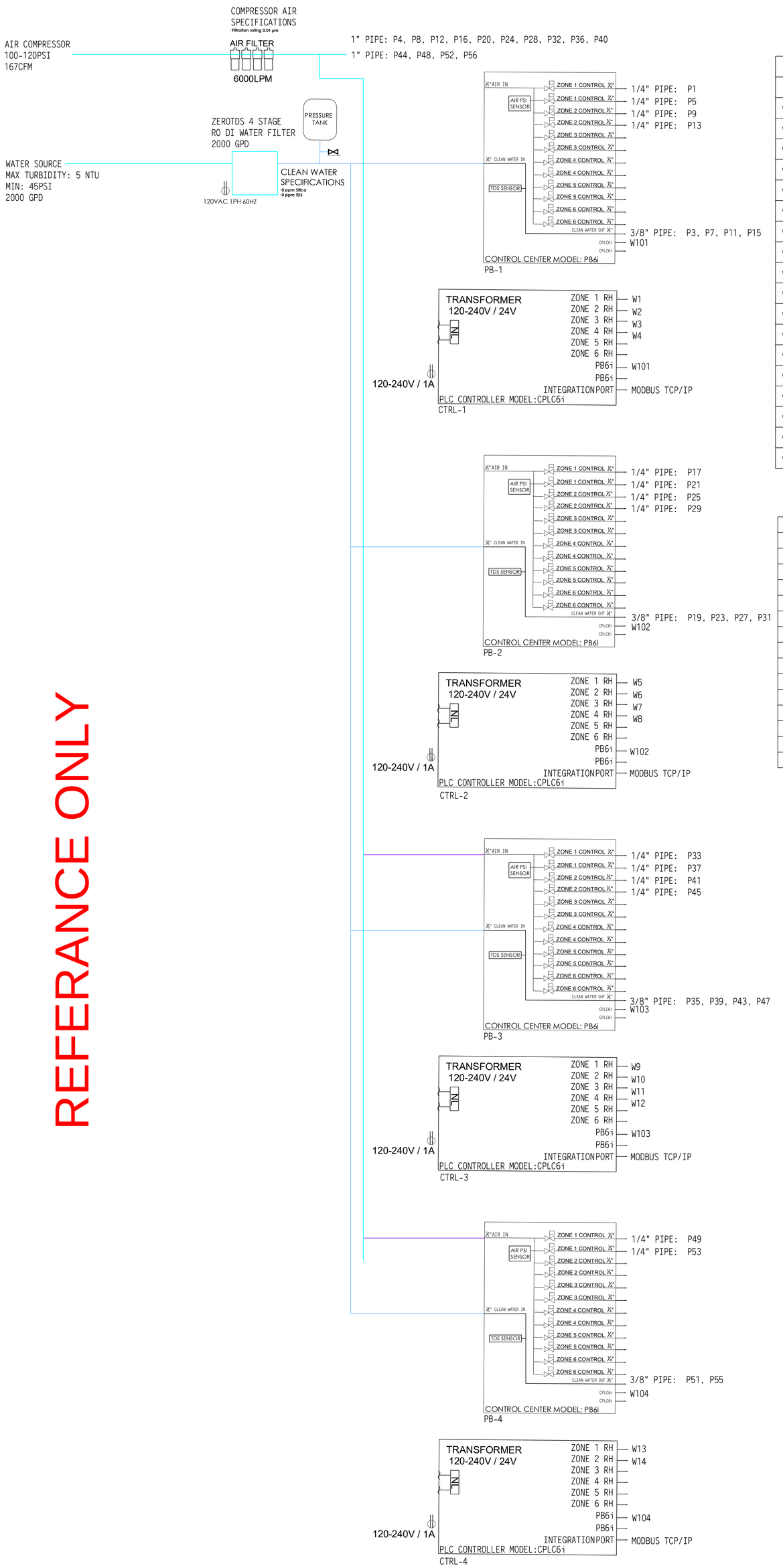
SHEET NUMBER	PROJECT NUMBER	DRAWING NUMBER
001:001		04–000–1005B

Conceptual Piping Configuration



*Type K Copper Lines with brazed fittings throughout the building up to the shut off valve inside the rooms

REFERANCE ONLY



WIRE		
WIRE NO	FROM	TO
W101	CTRL-1	PB-1
W102	CTRL-2	PB-2
W103	CTRL-3	PB-3
W104	CTRL-4	PB-4
W1	CTRL-1	RHSEN-1
W2	CTRL-1	RHSEN-2
W3	CTRL-1	RHSEN-3
W4	CTRL-1	RHSEN-4
W5	CTRL-2	RHSEN-5
W6	CTRL-2	RHSEN-6
W7	CTRL-2	RHSEN-7
W8	CTRL-2	RHSEN-8
W9	CTRL-3	RHSEN-9
W10	CTRL-3	RHSEN-10
W11	CTRL-3	RHSEN-11
W12	CTRL-3	RHSEN-12
W13	CTRL-4	RHSEN-13
W14	CTRL-4	RHSEN-14

PROJECT			
HU ZONE	ROOM DESC	CTRL	PB
1	GROW ROOM 1	1	1
2	GROW ROOM 2	1	1
3	GROW ROOM 3	1	1
4	GROW ROOM 4	1	1
5	GROW ROOM 5	2	2
6	GROW ROOM 6	2	2
7	GROW ROOM 7	2	2
8	GROW ROOM 8	2	2
9	GROW ROOM 9	3	3
10	VEG ROOM 1	3	3
11	VEG ROOM 2	3	3
12	NURSERY	3	3
13	TRIM	4	4
14	PACKAGING	4	4

REFERANCE ONLY

Smart fog	DRAWING NO	21731	TITLE	SMART FOG HUMIDIFICATION SYSTEM	www.smartfog.com	1"OD COMPRESSED AIR LINE / 1/2" OD COMPRESSED AIR LINE	1/4"OD COMPRESSED AIR CONTROL LINE A / 1/4"OD COMPRESSED AIR CONTROL LINE B	3/8" OD CLEAN WATER LINE / 22AWG [18 AWG >200'] 24VAC

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ALDEN GREEN HOUSE - BID PACKAGE TWO

11580 WALDEN AVE,
ALDEN, NY 14004

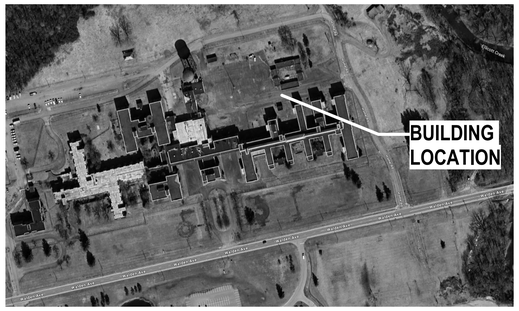
SYMBOL LEGEND

- DETAIL NUMBER / SIM / A101 / SHEET NUMBER — SECTION TAG
- 1 Ref / A600 / SHEET NUMBER — ELEVATION TAG
- TRUE NORTH / PROJECT NORTH — NORTH ARROW
- FINISH FACE OF SURFACES ALIGN
- A — STRUCTURAL GRID TAG
- ROOM NAME / 10000 — NUMBER / 150 SF — AREA — ROOM TAG
- 0000 — DOOR TAG
- P1 — WALL TAG
- W1 — WINDOW / LOUVER TAG
- 1 — REFER TO DRAWING NOTE

LOCATION MAP

PROJECT LOCATION

11580 WALDEN AVE,
ALDEN, NY 14004



GENERAL NOTES:

1. CONTRACT DOCUMENTS — ALL CONTRACTORS SHALL EXAMINE THE CONTRACT DOCUMENTS, AND REFERENCED, NON-CONTRACTUAL DOCUMENTS, AND SHALL BE INFORMED OF THE ENTIRE CONTENTS THEREOF PRIOR TO SUBMISSION OF PROPOSAL. ANY ERRORS OR AMBIGUITIES NOTED DURING SAID EXAMINATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT, PRIOR TO THE SUBMISSION OF A BID. THE ARCHITECT WILL ISSUE AN ADDENDUM OF INTERPRETATION OF THE CITED ERROR OR AMBIGUITY.

NO SUBSEQUENT CLAIM FOR EXTRA WORK WILL BE ALLOWED ON ACCOUNT OF CLAIMED MISUNDERSTANDING OF THE MEANING OR INTENT OF THE CONTRACT DOCUMENTS OF ANY PORTION THEREOF IF THE ITEM OCCASIONING THE CLAIM APPEARED IN, OR WAS INFERABLE FROM, SAID CONTRACT DOCUMENTS AS FURNISHED FOR BIDDING. CONTRACTORS PROPOSE TO PROVIDE ALL REQUIRED MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

2. CODES — ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE 2020 BUILDING CODES OF NEW YORK STATE, ICC/ANSI 117.1-2017, OSHA REGULATIONS, AND ALL AGENCIES HAVING JURISDICTION OF THIS PROJECT.

3.EXISTING CONDITIONS — ALL CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AT THE SITE PRIOR TO BID, COMMENCING WORK, AND FABRICATION OF ANY MATERIALS. CONTRACTORS SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE ARCHITECT PRIOR TO CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, EXISTING UTILITIES.

4.SAFETY — IMPLEMENTING JOB SITE SAFETY CONSTRUCTION PROCEDURES AND COMPLIANCE WITH ALL (OSHA) RELATED SAFETY REGULATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTORS AND THEIR SUBCONTRACTORS.

THE FOLLOWING SHALL BE MAINTAINED AND/OR PROVIDED IN COMPLIANCE WITH CURRENT OSHA STANDARDS IN ADDITION TO ALL OTHER GOVERNING CODES AND ORDINANCES:

- ADEQUATE EXITS AND UNOBSTRUCTED ACCESS TO SUCH SHALL BE MAINTAINED
- VISIBLE EXIT SIGNAGE SHALL BE PROVIDED OR MAINTAINED
- FIRE PROTECTION PROGRAM AS WELL AS EQUIPMENT SHALL BE PROVIDED BY CONTRACTOR
- ACCESS TO A SUFFICIENT WATER SUPPLY SHALL BE AVAILABLE UPON ACCUMULATION OF COMBUSTIBLE MATERIAL
- FIRE EXTINGUISHING DEVICES AND EQUIPMENT OF PROPER RATING, STANDARD, AND LOCATION
- SERVICE OF FIRE RESPONSE SYSTEMS SHALL BE MAINTAINED AND CHECKED DAILY TO INSURE THAT PROTECTION IS IN SERVICE. INSIDES OF ALL ELECTRICAL AND TELEPHONE ROOMS.

5. MEANS AND METHODS — THE MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTORS AND THEIR SUBCONTRACTORS. ALL CONTRACTORS ARE RESPONSIBLE TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FORMWORK, STAGING, BRACING, SHEETING AND SHORING, RESHORING, ETC.—THIS INCLUDES THAT REQUIRED FOR THE CONTRACTOR VEHICLES, FORKLIFTS, MOBILE CRANES, MATERIALS STORAGE, ETC.

6. COORDINATION — ALL CONTRACTORS AND THEIR SUBCONTRACTORS ARE RESPONSIBLE FOR THE THOROUGH COORDINATION OF THE WORK WITH EACH OTHER. OBTAIN ALL NECESSARY INFORMATION REQUIRED FOR A WELL-COORDINATED INSTALLATION OF THE WORK. NO CLAIMS FOR ADDITIONAL WORK WILL BE ACCEPTED FOR WORK RELATED TO SUCH COORDINATION.

7. JOB SITE — EACH CONTRACTOR SHALL KEEP THE JOB SITE FREE OF DEBRIS AND IS RESPONSIBLE FOR DAILY CLEAN UP. ROADWAYS AND SIDEWALKS SHALL BE KEPT FREE OF DEBRIS. TRASH CONTAINERS SHALL BE EMPTIED IN A TIMELY MANNER.

8. PROTECTION AND RESTORATION — ALL CONTRACTORS AND THEIR SUBCONTRACTORS SHALL PROTECT AND NOT DAMAGE EXISTING FINISHES, EQUIPMENT, PROPERTY, ETC. DURING THE WORK. ALL DAMAGED AREAS SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITIONS.

ALL CONTRACTORS SHALL RESTORE EXISTING WALL ASSEMBLIES TO MATCH EXISTING CONSTRUCTION AND FINISH AS REQUIRED AT ALL NEW PENETRATIONS AND OPENINGS. ALL ABANDONED OPENINGS AT WALLS, ROOF, OR FLOOR SHALL BE INFILLED WITH PERMANENT CONSTRUCTION.

WHERE REMOVAL OF EXISTING CONSTRUCTION RESULTS IN DEPRESSIONS AND/OR UNEVEN CONDITIONS, PATCH, LEVEL, AND FEATHER AREAS AS REQUIRED TO PROVIDE UNIFORMITY OF NEW CONSTRUCTION.

9. FIRE RATINGS — THE EXISTING MEANS OF FIRE RATING, INCLUDING BUT NOT LIMITED TO RATED WALL AND FLOOR ASSEMBLIES, FIRE STOPS, DRAFT STOPS, PENETRATION, AND FIRE SAFING, MUST BE MAINTAINED. FIRE ALARM, SPRINKLER AND STANDPIPE SYSTEMS SHALL BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES. FIRE PROTECTION SYSTEMS DISTURBED OR DAMAGED DUE TO CONSTRUCTION ACTIONS, SHALL BE REPAIRED BY THE CONTRACTOR TO MAINTAIN FIRE RATINGS AND PROTECTIONS.

10. FACILITY OPERATIONS — CARE SHALL BE TAKEN TO AVOID DISTURBANCE OF ADJACENT FUNCTIONS/BUILDINGS. ALL WORK, DELIVERIES AND OTHER CONSTRUCTION RELATED ACTIVITIES SHALL ADHERE IN STRICT ACCORDANCE TO LOCAL RESTRICTIONS AND CONDITIONS. CONTRACTORS ARE TO HAVE A COPY OF SAID REQUIREMENTS AND CONDITIONS AVAILABLE AT THE JOB SITE AT ALL TIMES FOR REVIEW.

11. QUALITY — ALL CONTRACTORS SHALL PROVIDE ALL MATERIALS INDICATED GRAPHICALLY OR AS NOTED. ALL MATERIALS USED IN CONSTRUCTION SHALL BE NEW AND FREE FROM DEFECTS. INSTALL ALL MATERIALS TO THE MANUFACTURERS'S RECOMMENDATIONS AND TO ACCEPTABLE PROFESSIONAL TRADE INDUSTRY STANDARDS FOR WORK OF SIMILAR SCOPE AND CHARACTER. WORK SHALL NOT VOID ANY WARRANTIES OR IMPEDE THE PERFORMANCE OF ANY INSTALLED SYSTEM.

ALL WORK OF THE PROJECT SHALL BE PERFORMED CAREFULLY AND SKILLFULLY BY WORKERS ADEPT IN THEIR TRADES. SHOULD ANY MATERIAL OR WORKMANSHIP BE FOUND TO BE DEFECTIVE, IT SHALL BE REPLACED BY THE CONTRACTOR AT THEIR OWN EXPENSE.

12. DRAWINGS — DO NOT SCALE DRAWINGS. ALL WALL, PARTITION, AND STRUCTURAL DIMENSIONS ARE ACTUAL, AND ARE DIMENSIONED TO THE FACE OF THE PARTITION, UNLESS INDICATED OTHERWISE. ALL DIMENSIONS, NOTES, AND DETAILS SHOWING A PORTION OF A DRAWING SHALL APPLY TYPICALLY TO ALL OPPOSITE HAND AND/OR SIMILAR CONDITIONS. CONTRACTORS SHALL VERIFY ALL DIMENSIONS IN THE FIELD AS REQUIRED FOR THE SCOPE OF WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

13. INCIDENTAL BLOCKING — PROVIDE ALL INCIDENTAL WOOD BLOCKING AS REQUIRED FOR ATTACHMENT OF FINISHES, AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO MILLWORK, CASEWORK, AND COUNTERTOPS.

14. INSPECTIONS — CONTRACTORS SHALL BE RESPONSIBLE FOR MAKING ARRANGEMENTS FOR ALL REQUIRED INSPECTIONS.

15. OWNER-PROVIDED EQUIPMENT — ALL CONTRACTORS SHALL OBTAIN ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT FROM OWNER PRIOR TO INSTALLATION.

16. HAZARDOUS MATERIALS — TESTING WAS PERFORMED PRIOR TO THE PROJECT TO IDENTIFY HAZARDOUS MATERIALS THAT MAY BE DISTURBED BY THE PLANNED DEMOLITION.

REFER TO THE SURVEY REPORT BY REQUEST TO THE OWNER FOR A LIST OF BUILDING COMPONENTS ASSOCIATED WITH THE PROPOSED RENOVATIONS IDENTIFIED TO BE ASBESTOS OR LEAD-CONTAINING, IF ANY.

PER THE REPORT: "ASBESTOS CONTAIN MATERIALS WERE NOT IDENTIFIED ABOVE 1% IN MATERIALS THAT WERE SAMPLED. LEAD BASED PAINT WAS NOT IDENTIFIED FOR AREAS THAT WERE TESTED. PCBS IN CAULK HAZARDS WERE ALSO NOT IDENTIFIED."

FURNISHING OF THIS INFORMATION IS NOT INTENDED TO RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITIES UNDER OSHA TO DETERMINE THE PRESENCE, LOCATION, AND QUANTITY OF EXISTING LEAD-CONTAINING MATERIALS THAT THEIR EMPLOYEES MAY BE EXPOSED TO, AND TO WARN THEIR EMPLOYEES OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF ASBESTOS OR LEAD-CONTAINING MATERIALS.

ALL CONTRACTORS ARE RESPONSIBLE FOR MAKING THEMSELVES AND THEIR EMPLOYEES AWARE OF THE PRESENCE, LOCATION, AND QUANTITY OF EXISTING ASBESTOS CONTAINING BUILDING MATERIALS, AND TO WARN THEIR EMPLOYEES OF THE POTENTIAL DANGERS OF EXPOSURE TO ASBESTOS. ANY DISTURBANCE OF ASBESTOS CONTAINING MATERIALS SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR, EMPLOYING CERTIFIED WORKERS.

CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION; INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD.

ANY QUESTIONABLE MATERIAL OR MATERIAL SUSPECTED TO CONTAIN ASBESTOS SHALL NOT BE DISTURBED AND SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR THE OWNERS REPRESENTATIVE FOR AN ACCURATE INTERPRETATION AND/OR SAMPLING AND ANALYSIS. ASBESTOS TESTING REPORTS ARE AVAILABLE BY REQUEST TO THE OWNER.

ABBREVIATIONS:

AB	ANCHOR BOLT
ABV	ABOVE
A/C	AIR CONDITIONING
ACT	ACOUSTICAL TILE OR PANEL
ADA	AMERICANS W/ DISABILITIES ACT
ADD	ADDENDUM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE / ALTERNATIVE
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BC	BUILDING CODE
BD	BOARD
BFF	BELOW FINISH FLOOR
BITUM	BITUMINOUS
BKSPL	BACKSPLASH
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM / BENCH MARK
BOS	BOTTOM OF STEEL
BTWN	BETWEEN
BTM	BOTTOM
BTU	BRITISH THERMAL UNIT
BUR	BUILTUP ROOF
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CG	CORNER GUARD
CGT	CERAMIC GLAZED TILE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CLS	CLOSURE
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
COND	CONDENSER
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR / CORRUGATED
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
DEMO	DEMOLISH / DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DL	DEAD LOAD
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN / EACH FACE
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EXTR	EXTRUDED / EXTRUSION
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDN	FOUNDATION

FE	FIRE EXTINGUISHER
FF	FINISHED FLOOR
FF&E	FURNITURE, FIXTURE, & EQUIPMENT
FIN	FINISH
FLR	FLOOR
FLM	FLOOR MAT
FOS	FACE OF STUD
FOW	FACE OF WALL
FR	FRAME
FT	FEET / FOOT
FTG	FOOTING
FURR	FURRING
FV	FIELD VERIFY
G	GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR / GRADE BEAM
GC	GENERAL CONTRACTOR
GL	GLASS
GND	GROUND
GR	GRADE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HIGH
HB	HOSE BIB
HC	HANDICAPPED
HM	HOLLOW METAL
HP	HIGH POINT / HORSEPOWER
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
IMP	INSULATED METAL PANEL
IN	INCH
INCL	INCLUDING / INCLUDED
INSUL	INSULATION / INSULATED
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
JAN	JANITOR
JT	JOINT
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LB	POUND
LF	LINEAR FEET / LINEAR FEET
LG	LONG
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIN	LINEAR
LKR	LOCKER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LL	LIVE LOAD
LOC	LOCATION
LP	LOW POINT
LT	LIGHT
LVR	LOUVER
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MED	MEDIUM
MET	METAL
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MHT	MOUNTING HEIGHT
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MATCH LINE
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED
OH	OVERHEAD
OPG	OPENING
OPP	OPPOSITE
OPH	OPPOSITE HAND
PC	PLUMBING CONTRACTOR
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORATED
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE

PLBG	PLUMBING
PNT	PAINT / PAINTED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PORCELAIN TILE / PAVER TILE
PVMT	PAVEMENT
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS / RISER / THERMAL RESISTANCE
RA	RETURN AIR
RAD	RADIATOR
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECPT	RECEPTACLE
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
RES	RESILIENT
REV	REVISION
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RL	ROOF LEADER
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
RV	ROOF VENT
SF	SQUARE FOOT / SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SP	SPACE / STAND PIPE
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
ST	STORM DRAINAGE LINE
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
TB	THROUGH BOLT
TEL	TELEPHONE
TER	TERRAZZO
T&G	TONGUE & GROOVE
THK	THICK
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOP	TOP OF PIER
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UC	UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WL	WIND LOAD

DRAWING LIST

NUMBER	SHEET NAME	INITIAL ISSUE DATE	REVISION HISTORY
G102	GENERAL INFORMATION	11/26/2025	
G103	OVERALL FLOOR PLAN AND BUILDING CODE INFORMATION	11/26/2025	
A101	FLOOR PLAN	11/26/2025	12/12/25
A101a	PARTIAL FLOOR PLAN AREA-A	11/26/2025	12/12/25
A101b	PARTIAL FLOOR PLAN AREA-B	11/26/2025	12/12/25
A102	OVERALL DIMENSION FLOOR PLAN	11/26/2025	12/12/25
A102a	PARTIAL DIMENSION FLOOR PLAN AREA-A	11/26/2025	12/12/25
A102b	PARTIAL DIMENSION FLOOR PLAN AREA-B	11/26/2025	12/12/25
A103	OVERALL EQUIPMENT AND FURNITURE PLAN	11/26/2025	12/12/25
A103a	PARTIAL EQUIPMENT AND FURNITURE PLAN AREA-A	11/26/2025	12/12/25
A103b	PARTIAL EQUIPMENT AND FURNITURE PLAN AREA-B	11/26/2025	12/12/25
A104	OVERALL REFLECTED CEILING PLAN	11/26/2025	12/12/25
A104a	PARTIAL REFLECTED CEILING PLAN AREA-A	11/26/2025	12/12/25
A104b	PARTIAL REFLECTED CEILING PLAN AREA-B	11/26/2025	
A105	ROOF PLAN AND DETAILS	11/26/2025	
A201	EXTERIOR ELEVATIONS	11/26/2025	
A301	BUILDING SECTIONS	11/26/2025	
A401	WALL SECTIONS	11/26/2025	
A402	WALL SECTIONS	11/26/2025	12/12/25
A403	WALL SECTIONS	11/26/2025	12/12/25
A410	CANOPY SECTION & DETAILS	11/26/2025	12/12/25
A411	STAIR DETAILS	11/26/2025	12/12/25
A412	CANOPY DETAILS	11/26/2025	12/12/25
A420	PLAN DETAILS	11/26/2025	
A421	ENLARGED DETAILS	11/26/2025	12/12/25
A450	ENLARGED FLOOR PLANS, DETAILS AND INTERIOR ELEVATIONS	11/26/2025	12/12/25
A451	ENLARGED FLOOR PLANS, DETAILS AND INTERIOR ELEVATIONS	11/26/2025	12/12/25
A452	STAIR DETAILS	11/26/2025	
A501	DOOR SCHEDULE, TYPES AND DETAILS	11/26/2025	12/12/25
A502	DOOR DETAILS	11/26/2025	12/12/25
A503	WINDOW SCHEDULE, TYPES AND DETAILS	11/26/2025	12/12/25
A601	OVERALL FINISHES PLAN	11/26/2025	
A602	ROOM FINISH SCHEDULE AND DETAILS	11/26/2025	12/12/25
F001	FIRE PROTECTION NOTES, SCHEDULE, LEGEND AND DETAILS	11/26/2025	
F101	OVERALL FIRST FLOOR FIRE PROTECTION PLAN	11/26/2025	
F102	OVERALL ATTIC SPACE/UPRIGHT FIRE PROTECTION PLAN	11/26/2025	
P002	PLUMBING NOTES AND SCHEDULES	11/26/2025	
P102	OVERALL FIRST FLOOR PLUMBING PLAN	11/26/2025	
P102a	PARTIAL FIRST FLOOR PLUMBING PLAN AREA A	11/26/2025	
P102b	PARTIAL FIRST FLOOR PLUMBING PLAN AREA B	11/26/2025	
P103	OVERALL PLUMBING ROOF PLAN	11/26/2025	
P401	ENLARGED PLUMBING PLANS	11/26/2025	
P502	PLUMBING DETAILS	11/26/2025	
M001	MECHANICAL NOTES, SYMBOLS AND LEGENDS	11/26/2025	
M002	MECHANICAL SCHEDULES	11/26/2025	
M101	OVERALL FIRST FLOOR MECHANICAL DUCTWORK PLAN	11/26/2025	
M101A	FIRST FLOOR MECHANICAL DUCTWORK PLAN - AREA A	11/26/2025	
M101B	FIRST FLOOR MECHANICAL DUCTWORK PLAN - AREA B	11/26/2025	
M102	OVERALL FIRST FLOOR MECHANICAL PIPING PLAN	11/26/2025	
M102A	FIRST FLOOR MECHANICAL PIPING AND EQUIPMENT PLAN - AREA A	11/26/2025	
M102B	FIRST FLOOR MECHANICAL PIPING AND EQUIPMENT PLAN - AREA B	11/26/2025	
M103	OVERALL ROOF MECHANICAL PLAN	11/26/2025	
M103A	ROOF MECHANICAL PLAN - AREA A	11/26/2025	
M103B	ROOF MECHANICAL PLAN - AREA B	11/26/2025	
M401	ENLARGED MECHANICAL PLANS	11/26/2025	
M501	MECHANICAL DETAILS	11/26/2025	
E001-2	SYMBOL LEGEND, DETAILS & SCHEDULES	11/26/2025	
E002-2	ELECTRICAL DETAILS	11/26/2025	
E003	ELECTRICAL DETAILS	11/26/2025	
E004	GROW LIGHTING ELECTRICAL DETAILS	11/26/2025	
E005	MECHANICAL EQUIPMENT CONNECTION SCHEDULE	11/26/2025	
E006	LIGHTING CONTROL DETAILS	11/26/2025	
E102	OVERALL FIRST FLOOR POWER & SYSTEMS PLAN	11/26/2025	
E102a	PARTIAL FIRST FLOOR POWER & SYSTEMS PLAN AREA-A	11/26/2025	12/12/25
E102b	PARTIAL FIRST FLOOR POWER & SYSTEMS PLAN AREA-B	11/26/2025	12/12/25
E103	OVERALL FIRST FLOOR COMMUNICATIONS & SECURITY PLAN	11/26/2025	
E103a	PARTIAL FIRST FLOOR COMMUNICATIONS & SECURITY PLAN AREA-A	11/26/2025	
E103b	PARTIAL FIRST FLOOR COMMUNICATIONS & SECURITY PLAN AREA-B	11/26/2025	
E104	ELECTRICAL ROOF PLAN	11/26/2025	
E201	OVERALL FIRST FLOOR LIGHTING PLAN	11/26/2025	
E201a	PARTIAL FIRST FLOOR LIGHTING PLAN AREA-A	11/26/2025	12/12/25
E201b	PARTIAL FIRST FLOOR LIGHTING PLAN AREA-B	11/26/2025	12/12/25
E202a	PARTIAL FIRST FLOOR LIGHTING PLAN FLOWER ROOMS 1, 2,3	11/26/2025	
E202b	PARTIAL FIRST FLOOR LIGHTING PLAN FLOWER ROOMS 4, 5, 6	11/26/2025	
E202c	PARTIAL FIRST FLOOR LIGHTING PLAN FLOWER ROOMS 7, 8, 9	11/26/2025	
E202d	PARTIAL FIRST FLOOR LIGHTING PLAN VEG ROOMS 1, 2	11/26/2025	
E304	ELECTRICAL SITE LIGHTING PLAN	11/26/2025	12/12/25
E305	ELECTRICAL SITE PLAN - COMMUNICATIONS CABLING	11/26/2025	12/12/25
E501	ONE-LINE DIAGRAM	11/26/2025	12/12/25
E601	PANEL SCHEDULES	11/26/2025	12/12/25
E602	PANEL SCHEDULES - EMERGENCY, GENERAL	11/26/2025	12/12/25
E603	PANEL SCHEDULES - FLOWER ROOMS	11/26/2025	12/12/25
E604	PANEL SCHEDULES - FLOWER ROOMS	11/26/2025	12/12/25
E605	PANEL SCHEDULES - PACKAGING CORRIDOR	11/26/2025	12/12/25
E606	PANEL SCHEDULES - PROCESS MECHANICAL	11/26/2025	
E607	PANEL SCHEDULES - VEG, FERT	11/26/2025	12/12/25
E608	PANEL SCHEDULES - MECHANICAL	11/26/2025	12/12/25
E609	PANEL SCHEDULES - OFFICE CORRIDOR	11/26/2025	12/12/25

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 12/05/2025
Project Number: TA# 24003
Sheet Title: GENERAL INFORMATION

Sheet Number: G102

BUILDING CODE REQUIREMENT

PROJECT IS DESIGNED IN COMPLIANCE WITH APPLICABLE PROVISIONS OF 2020 BUILDING CODE OF NEW YORK STATE

OCCUPANT LOAD:

270 OCCUPANTS

PLUMBING FIXTURES:

		REQUIRED	ACTUAL
B	FACTORY (F-1)		
	WATER CLOSETS	3	11 + 4 URINALS
	LAVATORIES	3	13
	DRINKING FOUNTAINS	1	1
	MOP SINK	1	3

EGRESS WIDTHS:

A	FACTORY (F-1)	54"	238"

BUILDING CODE REQUIREMENT

PROJECT IS DESIGNED IN COMPLIANCE WITH APPLICABLE PROVISIONS OF 2020 BUILDING CODE OF NEW YORK STATE

CONSTRUCTION TYPE: 2B

PROJECT TYPE: NEW CONSTRUCTION

OCCUPANCY CLASSIFICATION:

F-1 FACTORY

AUTOMATIC SPRINKLER SYSTEM: PROVIDED THROUGHOUT

MEANS OF EGRESS:

MAX TRAVEL DISTANCE (*TABLE 1017.2*) F-1 250 FT

CORRIDOR FIRE RATING: (*TABLE 1020.1*) F-1 0 HR

BUILDING AREAS (TABLE 506.2):

ZONE:	ACTUAL GSF	ALLOWABLE GSF
A FACTORY (F-1)	58,333 SF	62,000 SF

NOTE: BUSINESS & STORAGE USES ARE LESS THAN 10% OF BUILDING AREA.

SYMBOLS

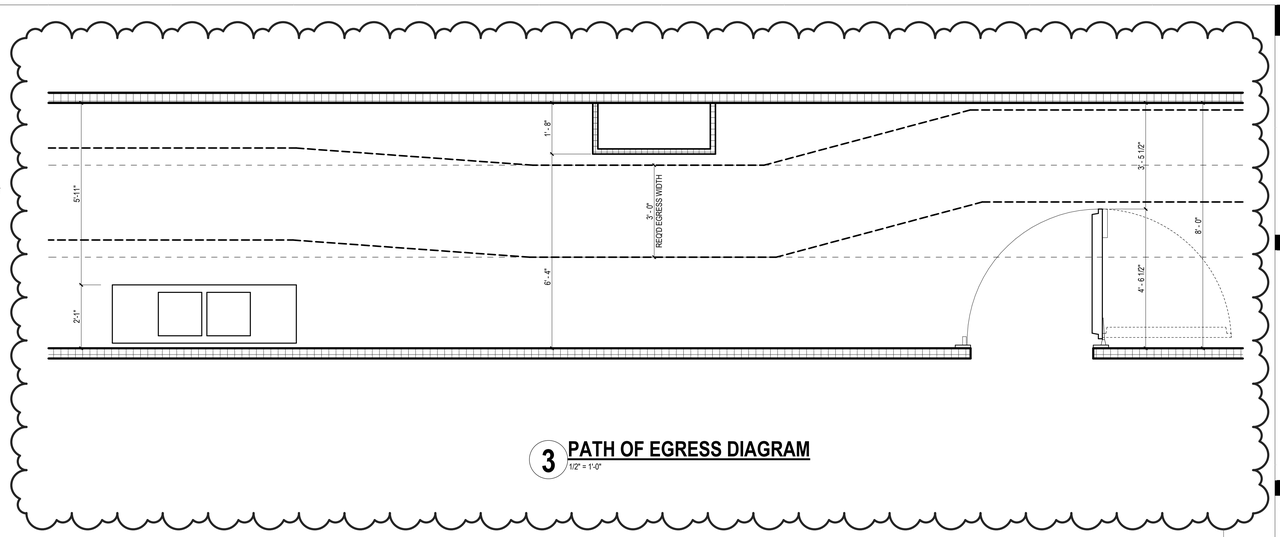
1 HOUR FIRE PARTITION

ROOM NAME ← ROOM NAME

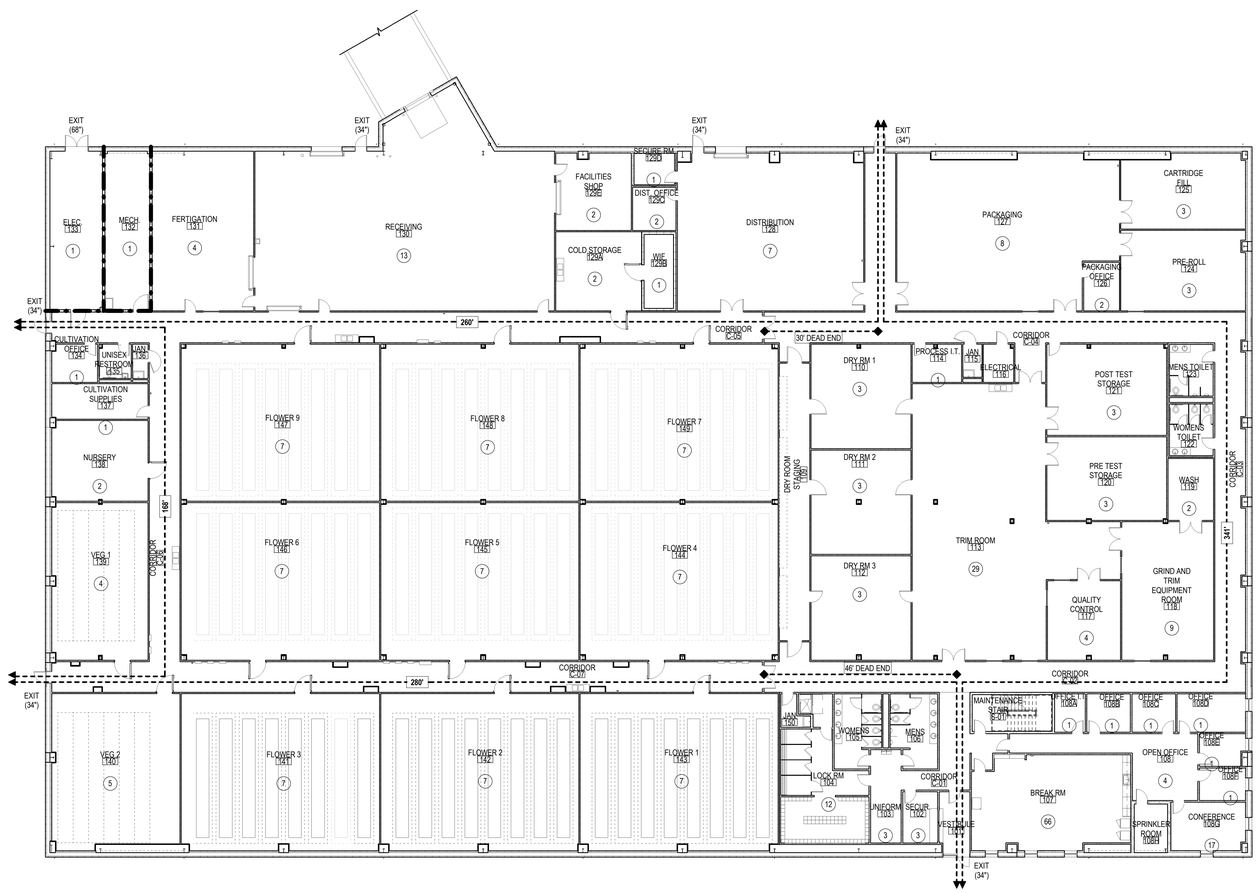
100 ← ROOM NUMBER

(#) ← CALCULATED ROOM OCCUPANCY

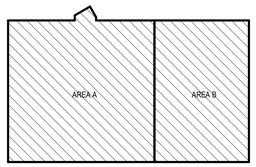
XXX ← EGRESS PATH



3 **PATH OF EGRESS DIAGRAM**
1/2" = 1'-0"



1 **FLOOR PLAN - OVERALL CODE ANALYSIS**
1/16" = 1'-0"



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Client: 11580 Walden Ave LLC

Project: Alden Green House

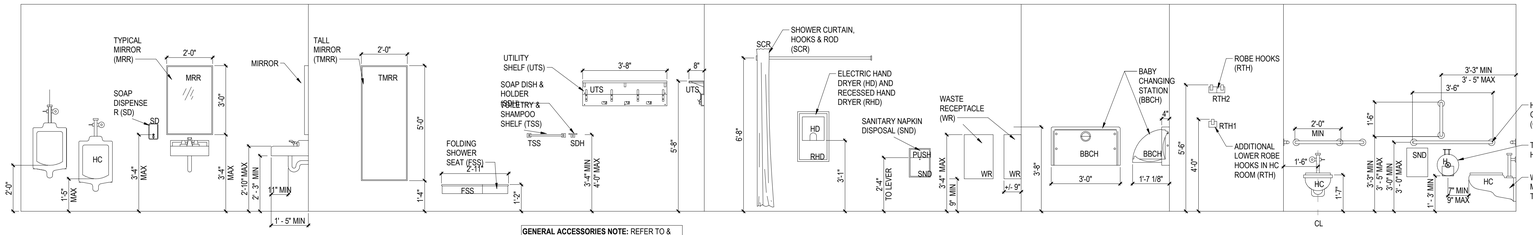
Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 10/10/2025
Project Number: TA# 24003
Sheet Title: OVERALL FLOOR PLAN AND BUILDING CODE INFORMATION

Sheet Number: G103



TOILET ACCESSORIES NOTES: PROVIDE SOLID WOOD BLOCKING FOR ALL TOILET ACCESSORIES MOUNTED IN GWB PARTITIONS. GROUT CMU CORES AT AREAS TO RECEIVE TOILET ACCESSORIES.

GENERAL ACCESSORIES NOTE: REFER TO & COORDINATE WITH MANUF. RECOMMENDATIONS FOR ACCESSIBLE MOUNTING HEIGHTS.

4 TYP MOUNTING HEIGHTS

3/8" = 1'-0"

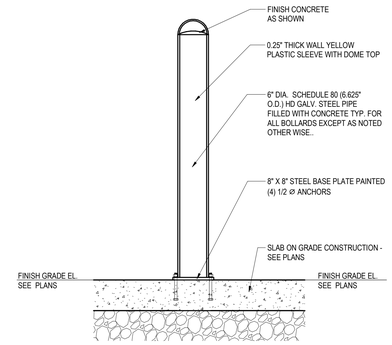
MISCELLANEOUS LINTEL SCHEDULE

(NON-LOAD BEARING WALLS ONLY)

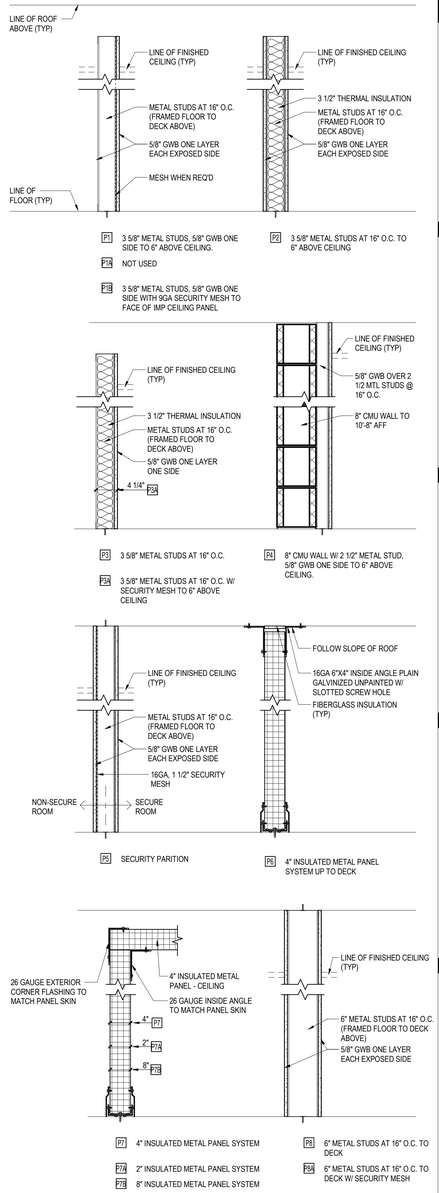
WALL THICKNESS	MASONRY OPENING			DETAIL
	UP TO 4'-0"	4'-1" TO 6'-0"	6'-1" TO 8'-0"	
4"	L 3 1/2 x 3 1/2 x 1/4 OR ST3 x 6.25			⊥ OR ⊥
6"	2 L'S 3 1/2 x 2 1/2 x 5/16	WT 7 x 11	WT 7 x 11	⊥⊥ OR ⊥
8"	2 L'S 3 1/2 x 3 1/2 x 1/4	2 L'S 4 x 3 1/2 x 5/16	2 L'S 5 x 3 1/2 x 5/16	⊥⊥
10"	L 5 x 3 1/2 x 1/4 L 4 x 4 x 1/4	L 5 x 3 1/2 x 5/16 L 4 x 4 x 5/16	L 5 x 5 x 5/16 L 4 x 4 x 5/16	⊥⊥
12"	3 L'S 3 1/2 x 3 1/2 x 5/16	3 L'S 4 x 3 1/2 x 5/16	3 L'S 6 x 3 1/2 x 5/16	⊥ ⊥⊥
BEARING LENGTH	4"	6"	8"	ALL ANGLES L.L.V.

LINTEL SCHEDULE NOTES:

1. HOT-DIP GALVANIZE ALL PIECES OF ALL LINTELS IN EXTERIOR WALLS.
2. LINTELS FOR OPENINGS LARGER THAN 8" X 8" FOR HVAC, ELECTRICAL AND PLUMBING SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. COORDINATE QUANTITY, LOCATION AND SIZES WITH ALL TRADES.
3. PROVIDE MASONRY BOND BEAM LINTELS WHERE INDICATED ON DRAWINGS. TYPICAL AT WINDOW AND DOOR MASONRY OPENINGS WHERE MAXIMUM MASONRY OPENING IS 6'-0".
4. LINTELS ON EXTERIOR WALLS SHALL HAVE A MINIMUM THICKNESS OF 5/16".
5. FOR OPENINGS ON MASONRY WALLS NOT MARKED ON PLAN, USE APPROPRIATE SIZE FROM THIS TABLE OR CONTACT ARCHITECT / ENGINEER.



TYPICAL INTERIOR BOLLARD

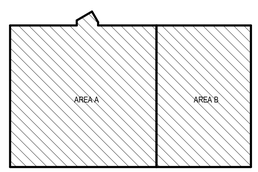


WALL TYPES

1" = 1'-0"

1 FLOOR PLAN

1/16" = 1'-0"



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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 WALDEN AVE ALDEN, NY 14004

Drawing History:

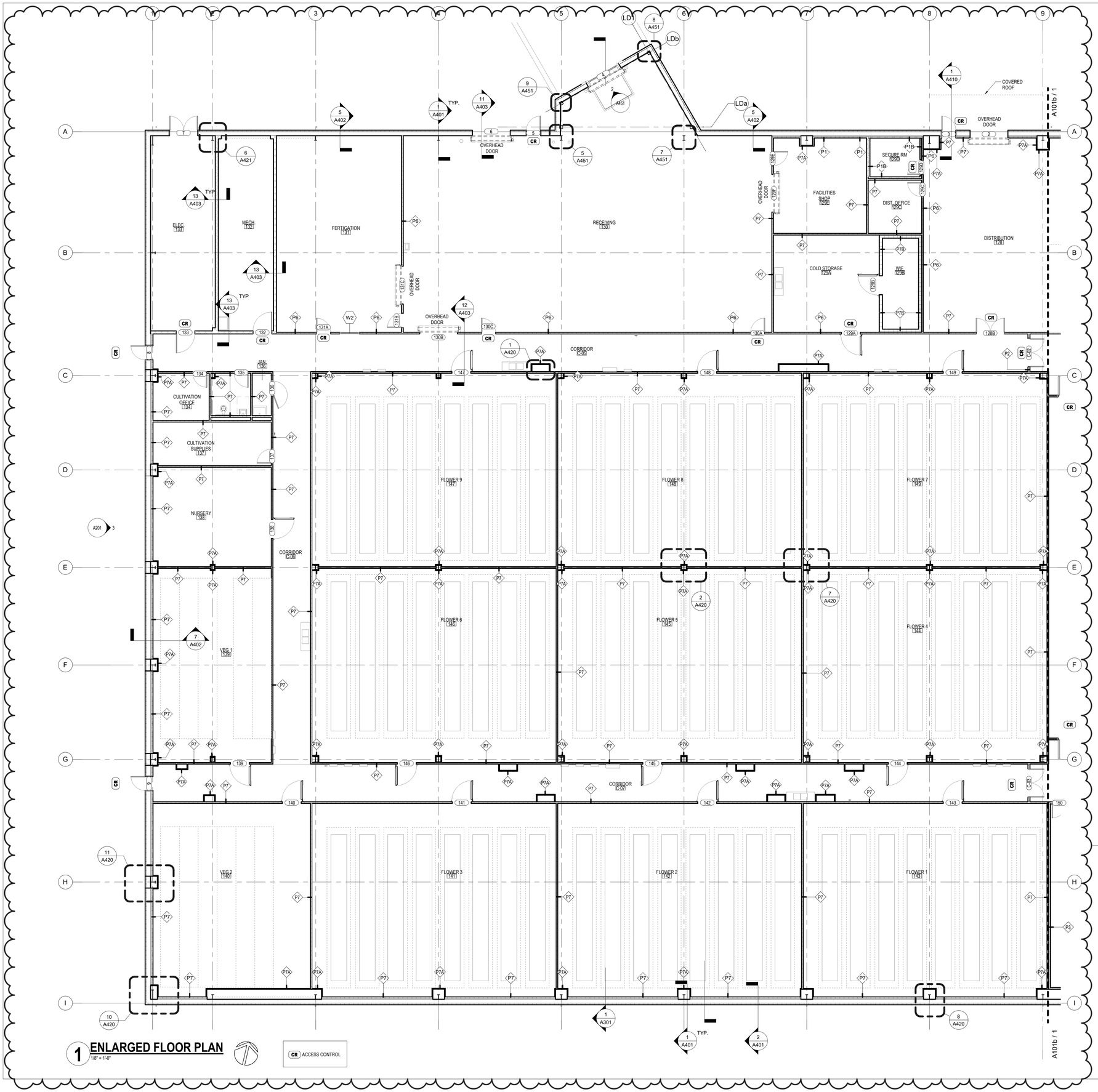
#	Date	Description
1	12/05/25	UNDERSLAB REV.
2	01/09/26	PACKAGE 2 REV.

Date: 10/10/2025

Project Number: TA# 24003

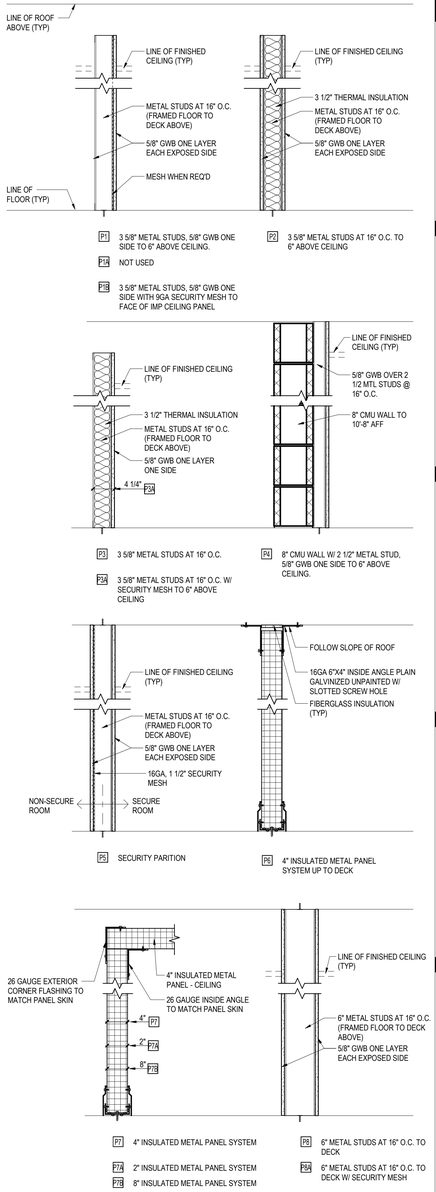
Sheet Title: FLOOR PLAN

Sheet Number: A101

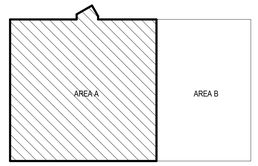


1 ENLARGED FLOOR PLAN
1/8" = 1'-0"

CR ACCESS CONTROL



WALL TYPES
1" = 1'-0"



KEY PLAN - AREA A
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Client: 11580 Walden Ave LLC

Project: Alden Green House

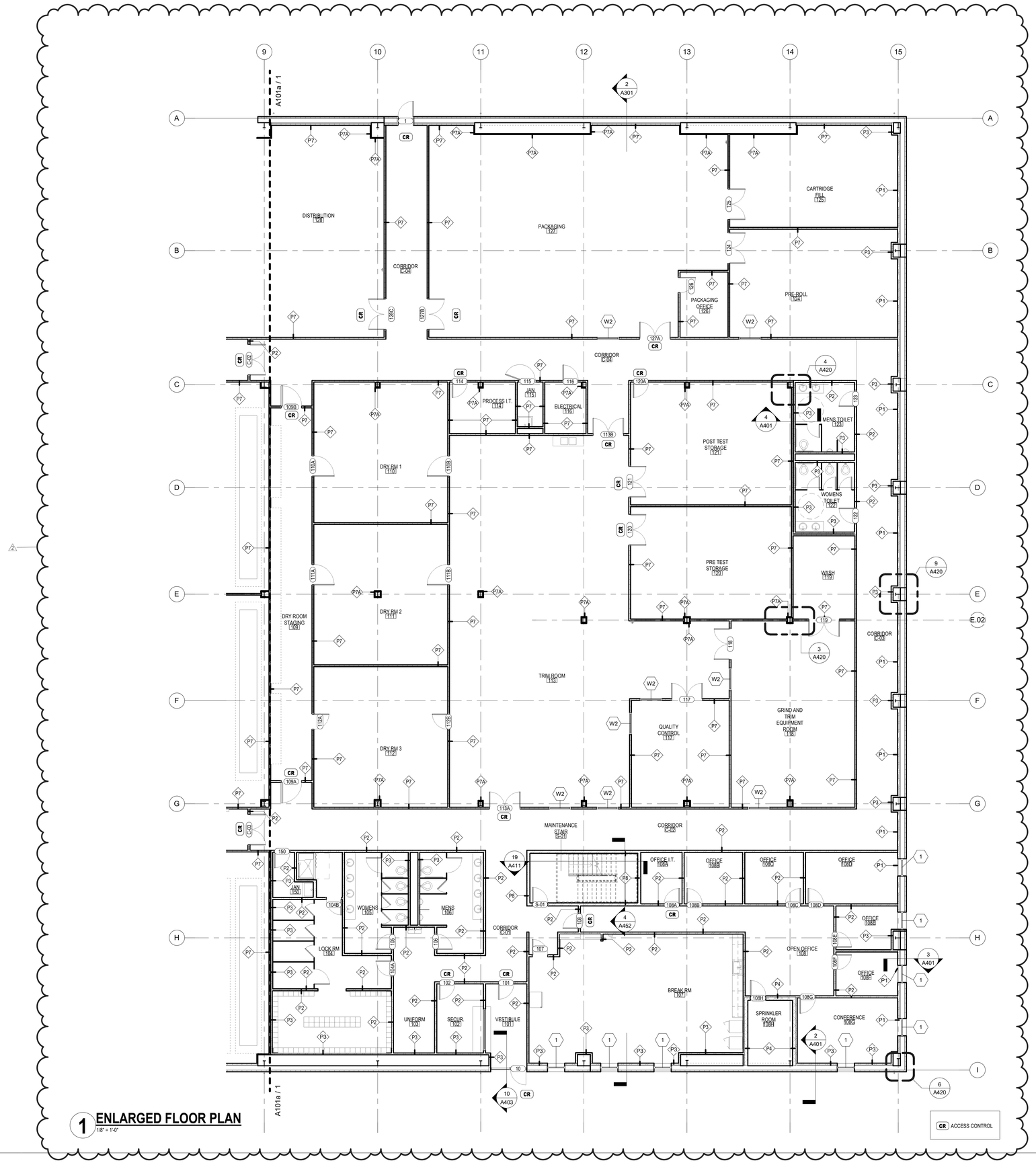
Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

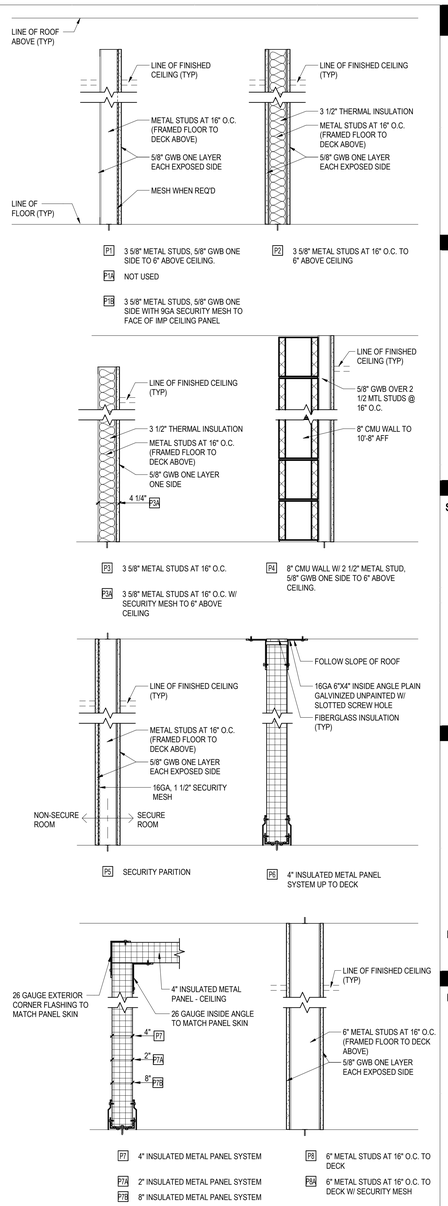
#	Date	Description
1	12/05/25	UNDERSLAB REV.
2	01/09/26	PACKAGE 2 REV.

Date: 12/02/2025
Project Number: TA# 24003
Sheet Title: PARTIAL FLOOR PLAN AREA-A

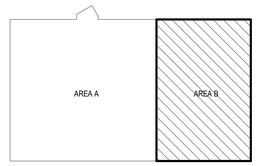
Sheet Number: A101a



1 ENLARGED FLOOR PLAN
1/8" = 1'-0"



WALL TYPES
1" = 1'-0"



KEY PLAN - AREA B
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Project: Alden Green House

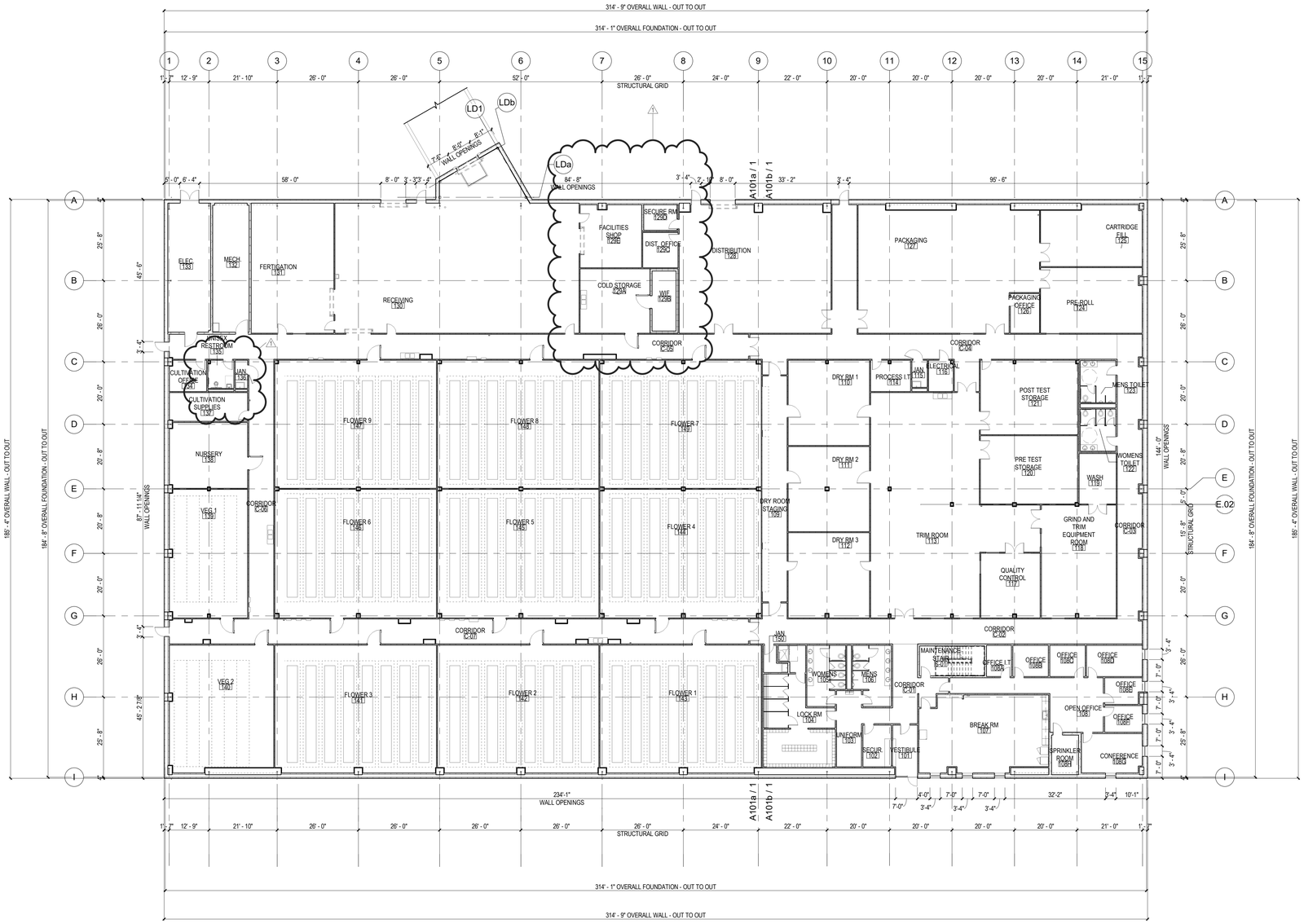
Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

#	Date	Description
1	12/05/25	UNDERSLAB REV.
2	01/09/26	PACKAGE 2 REV.

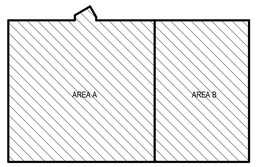
Date: 12/02/2025
Project Number: TA# 24003
Sheet Title: PARTIAL FLOOR PLAN AREA-B

Sheet Number: A101b



1 FLOOR PLAN

1/16" = 1'-0"



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Project: Alden Green House

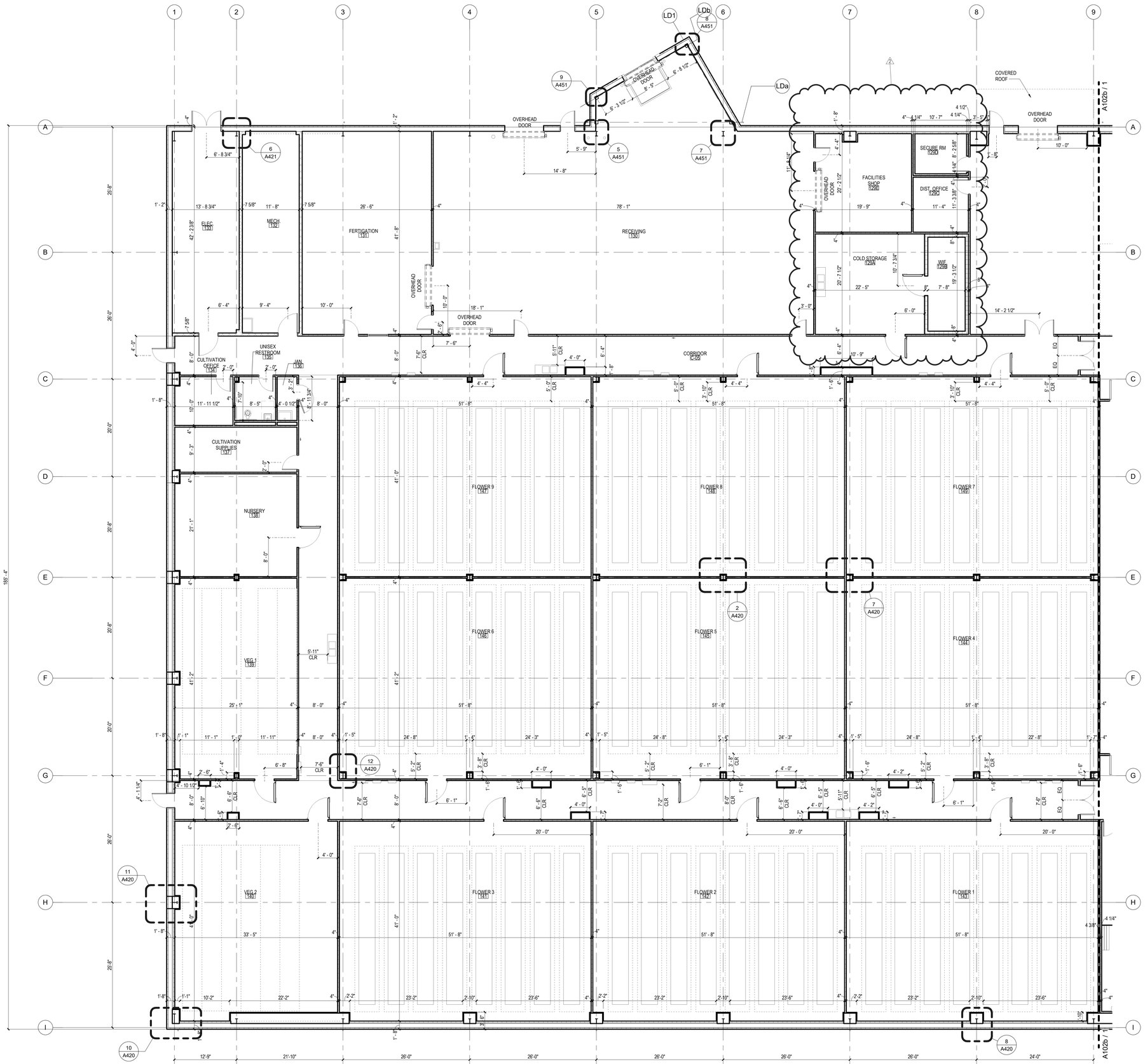
Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

#	Date	Description
1	01/09/26	PACKAGE 2 REV.

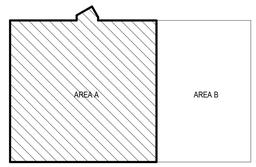
Date: 10/10/2025
Project Number: TA# 24003
Sheet Title: OVERALL DIMENSION FLOOR PLAN

Sheet Number: A102



1 ENLARGED FLOOR PLAN

1/8" = 1'-0"



KEY PLAN - AREA A

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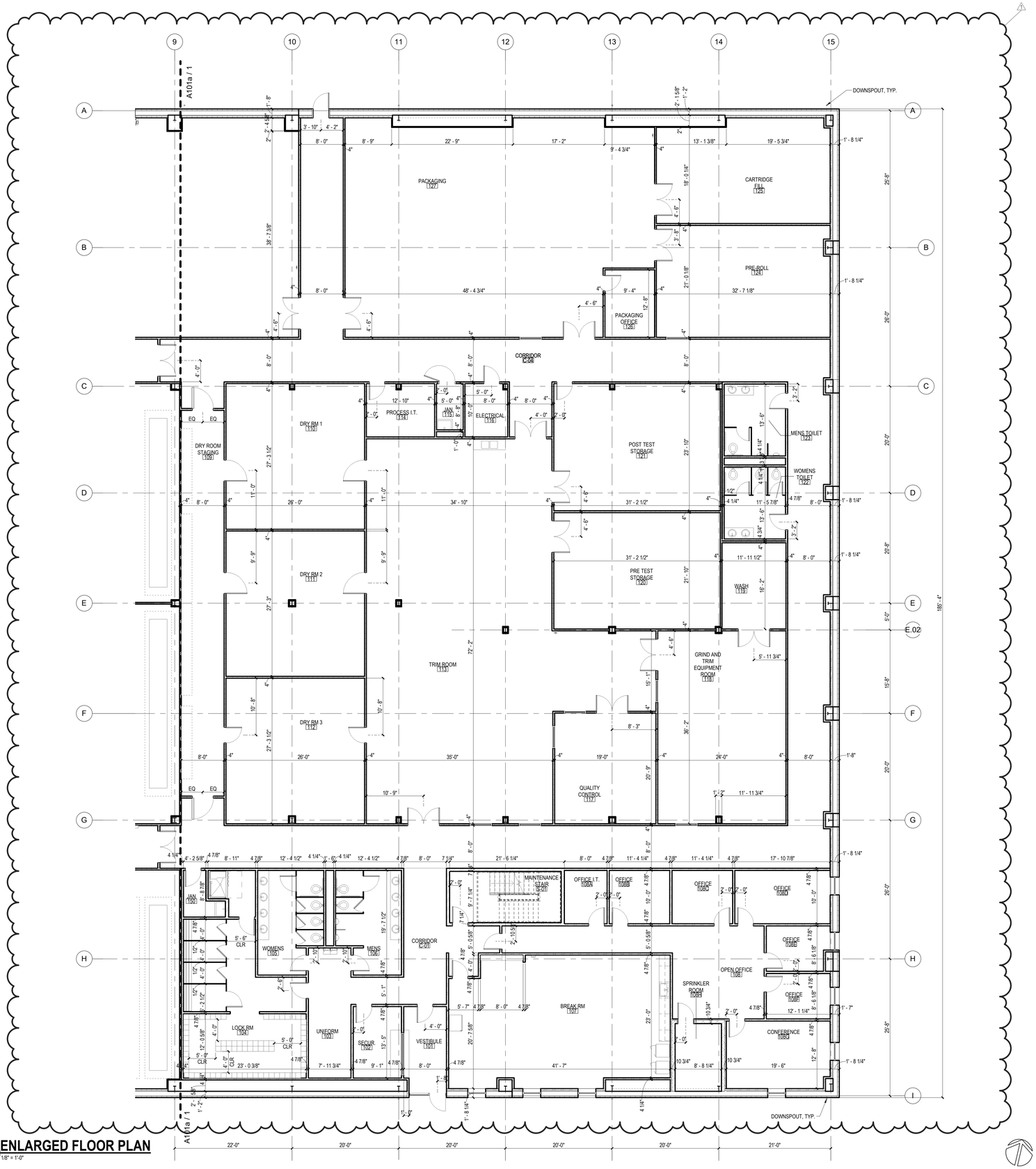
Drawing History:

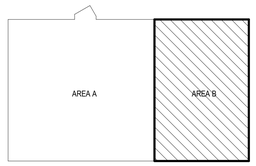
#	Date	Description
1	12/05/25	UNDERSLAB REV.
2	01/09/26	PACKAGE 2 REV.

Date: 10/10/2025
Project Number: TA# 24003
Sheet Title: PARTIAL DIMENSION FLOOR PLAN AREA-A

Sheet Number: A102a



1 **ENLARGED FLOOR PLAN**
1/8" = 1'-0"



KEY PLAN - AREA B
NOT TO SCALE

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Signature & Seal:

REGISTERED ARCHITECT
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028281-1
STATE OF NEW YORK

4/30/2026
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

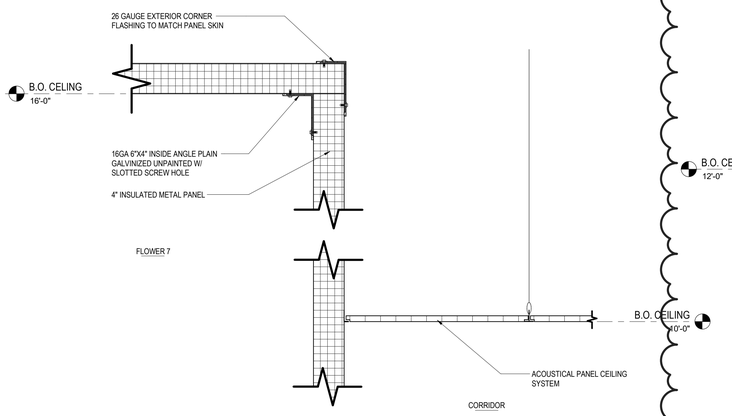
Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

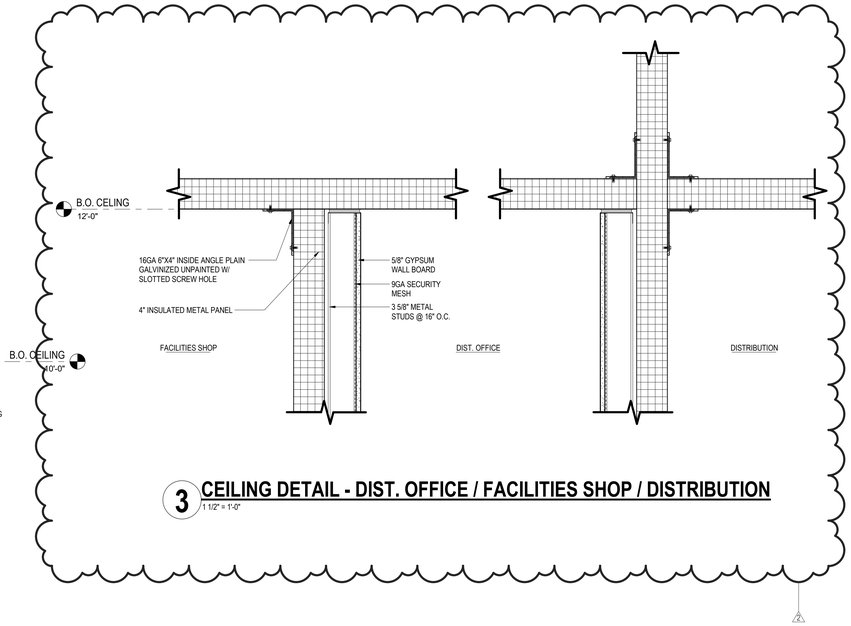
#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 10/10/2025
Project Number: TA# 24003
Sheet Title: PARTIAL DIMENSION FLOOR PLAN AREA-B

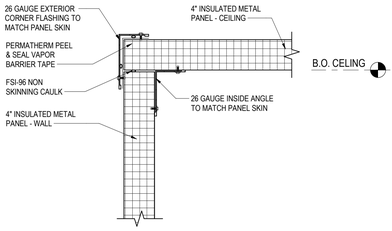
Sheet Number: A102b



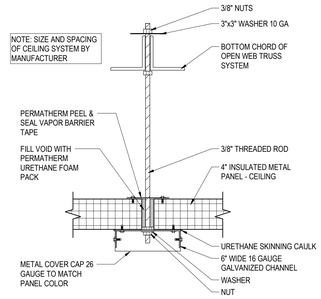
2 IMP / ACT CEILING DETAIL - FLOWER 7 / CORRIDOR
1 1/2" = 1'-0"



3 CEILING DETAIL - DIST. OFFICE / FACILITIES SHOP / DISTRIBUTION
1 1/2" = 1'-0"



5 TYP METAL PANEL WALL TO CEILING CONNECTION
1 1/2" = 1'-0"



4 TYP CEILING CHANNEL SUSPENDED METAL PANEL CEILING
1 1/2" = 1'-0"

GENERAL CEILING NOTES:

A. ALL LIGHTS FIXTURES TO BE INSTALLED CENTERED WITHIN ROOM/ AREA.

B. LIGHT FIXTURE FINISHES TO BE SELECTED BY ARCHITECT FROM FULL RANGE OF MANUFACTURING OFFERINGS.

C. COORDINATE ALL CEILING EQUIPMENT AND LAYOUT WITH ALL TRADES.

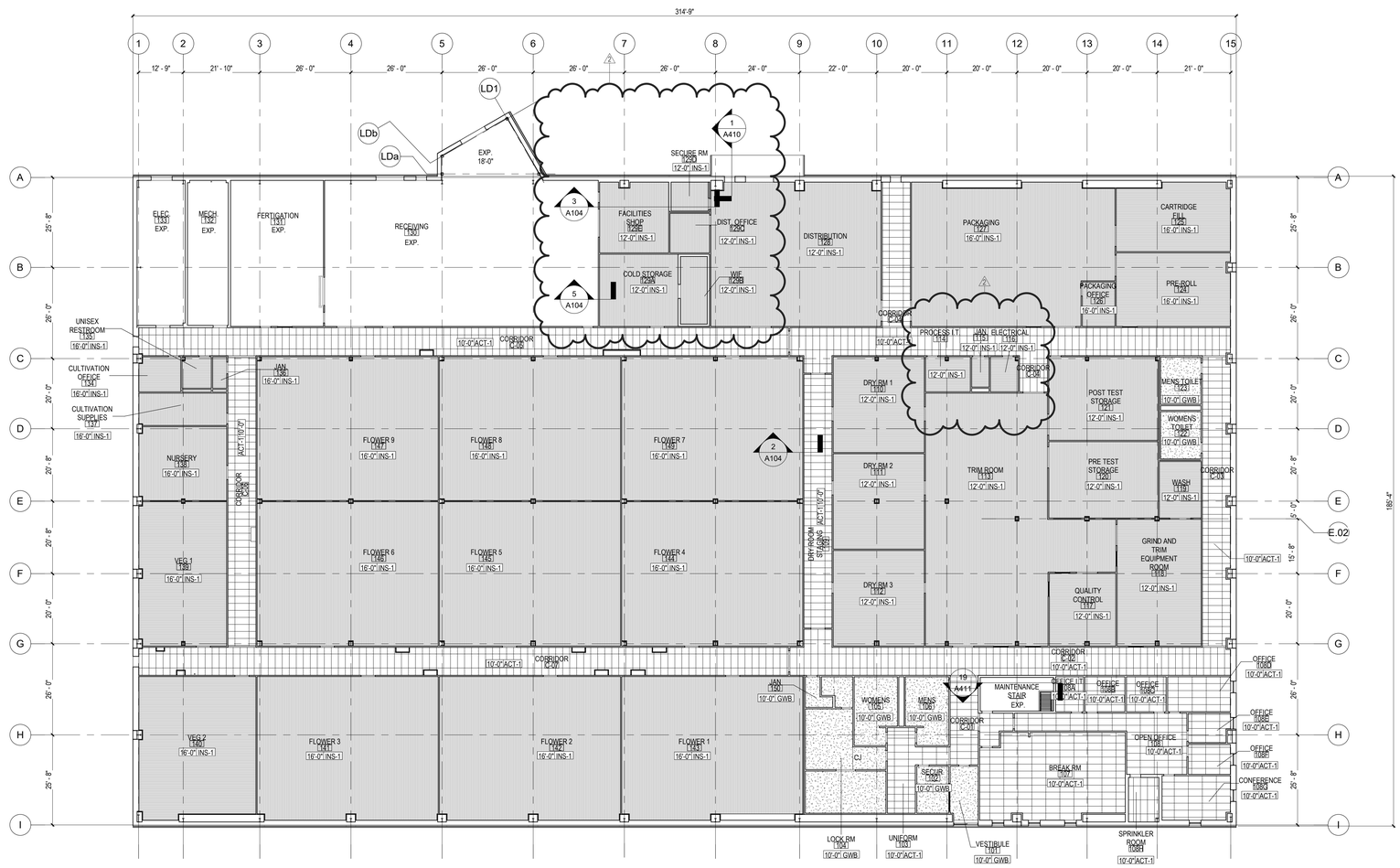
D. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.

E. COORDINATE INSTALLATION OF SPEAKERS, WIFI, AND SECURITY SYSTEMS WITH OWNER.

F. PREP, PRIME AND PAINT ALL GWB CEILINGS NOTED, TYP AT ALL NEW SOFFIT CONSTRUCTION.

G. PROVIDE HOLD DOWN CLIPS IN CEILING GRID AT CORRIDORS C-01 THRU C-07.

H. COORDINATE LOCATION OF ACCESS DOORS W/ MEP SYSTEMS AT ROOMS W/ GWB CEILINGS.



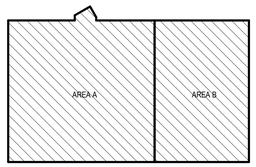
REFLECTED CEILING PLAN LEGEND	CEILING SYMBOL LEGEND
SUSPENDED ACOUSTIC TILE	SD SMOKE DETECTOR
INSULATED METAL PANEL	J JUNCTION BOX
EXPOSED DECK	OS OCCUPANCY SENSOR
GWB	S SPEAKER
	H THERMAL DETECTOR

CEILING EQUIPMENT LEGEND

- LINER WALL SCONCES
- LINEAR PENDANT LIGHTING FIXTURES
- SURFACE MOUNTED LIGHTING FIXTURES
- RECESSED LIGHTING FIXTURES
- SPRINKLER
- 10" x 10" ACCESS DOOR TYPE B
- RETURN AND SUPPLY DIFFUSERS
- FLUSH MOUNTED FIXTURES

PLAN DEPICTS CEILING HEIGHT AND MATERIAL ONLY. REFER TO MEP & FP DWGS FOR CEILING MOUNTED FIXTURES, DEVICES & EQUIPMENT.

1 1ST FLOOR REFLECTED CEILING PLAN
1/16" = 1'-0"



KEY PLAN
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Client: 11580 Walden Ave LLC

Project: Alden Green House

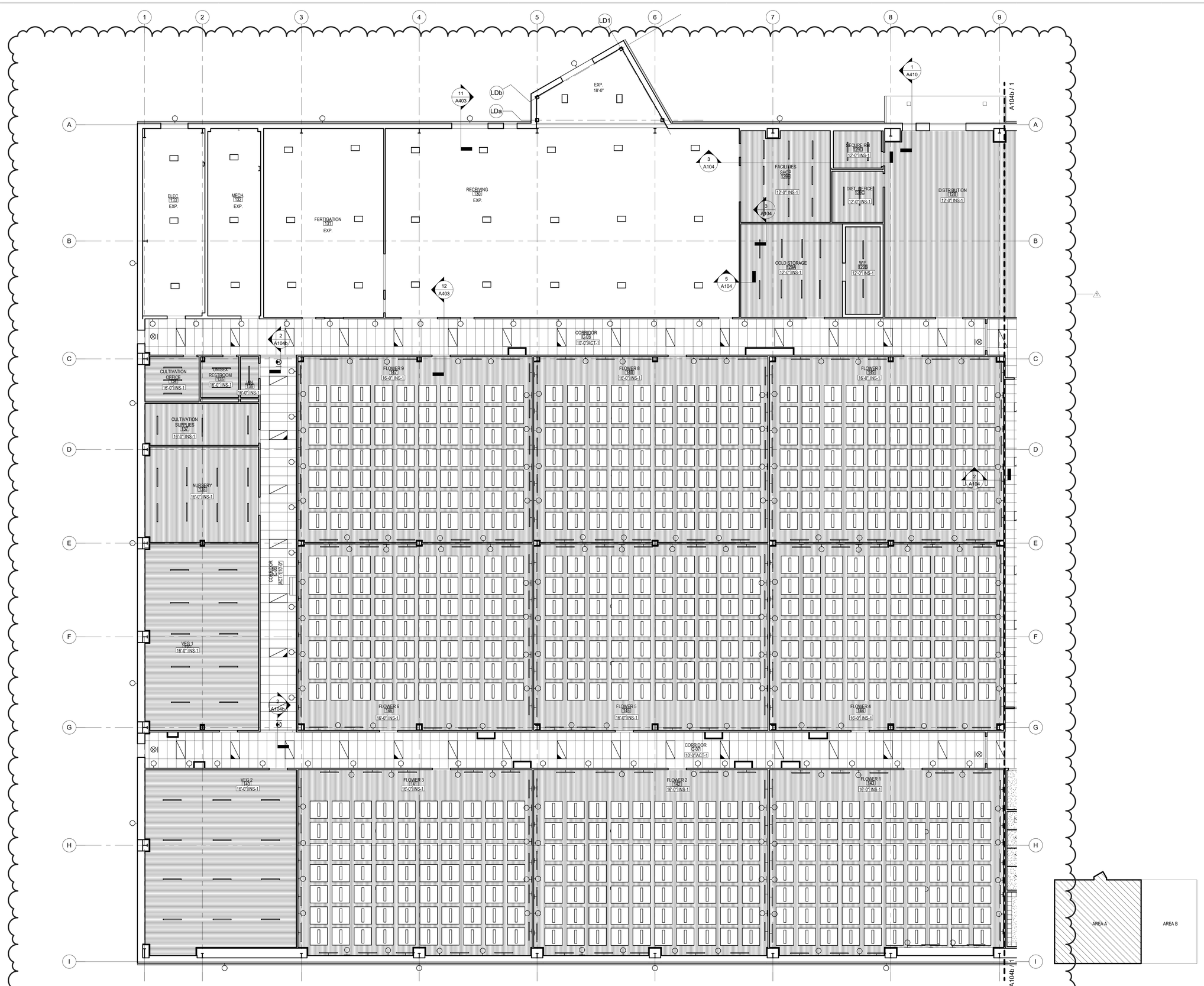
Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

#	Date	Description
1	12/05/25	UNDERSLAB REV.
2	01/09/26	PACKAGE 2 REV.

Date: 08/27/25
Project Number: TA# 24003
Sheet Title: OVERALL REFLECTED CEILING PLAN

Sheet Number: A104



1 1ST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

KEY PLAN - AREA A
1" = 80'-0"

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Client: 11580 Walden Ave LLC

Project: Alden Green House

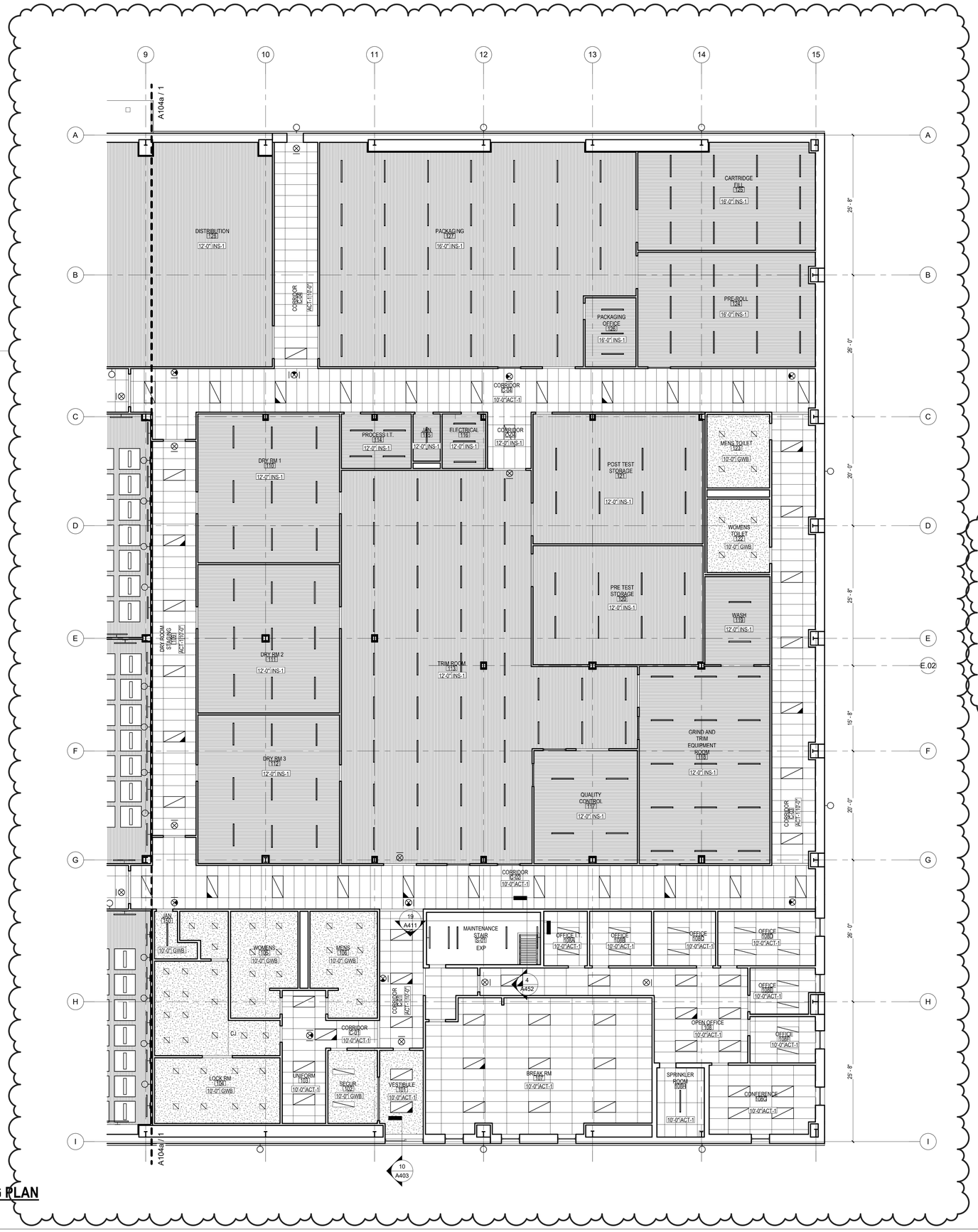
Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

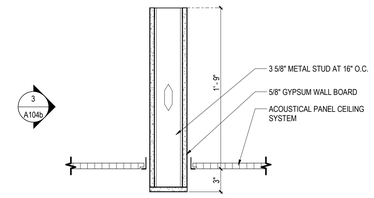
#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 08/07/25
Project Number: TA# 24003
Sheet Title: PARTIAL REFLECTED CEILING PLAN AREA-A

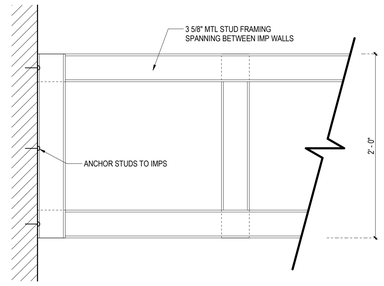
Sheet Number: A104a



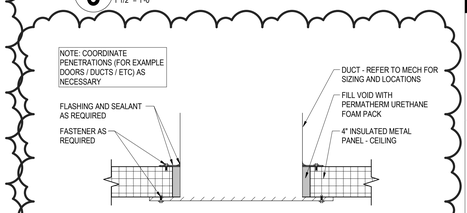
1 1ST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



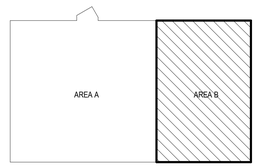
2 SECTION AT SOFFIT
1 1/2" = 1'-0"



3 ELEVATION AT SOFFIT FRAMING
1 1/2" = 1'-0"



4 TYP CEILING PENETRATION DETAIL
1 1/2" = 1'-0"



KEY PLAN - AREA B
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Client: 11580 Walden Ave LLC

Project: Alden Green House

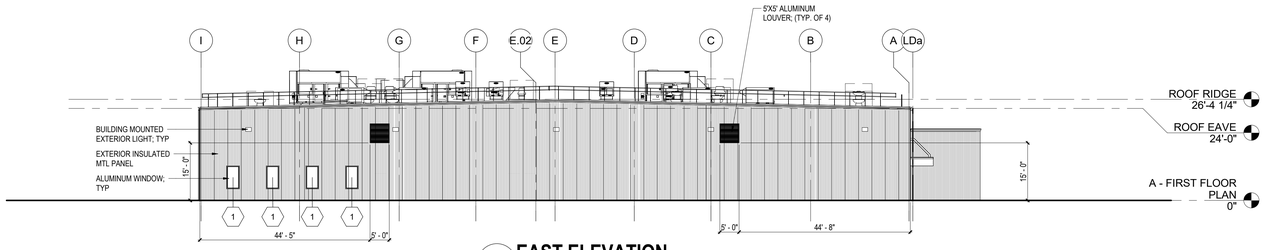
Project Address: 11580 WALDEN AVE ALDEN, NY 14004

Drawing History:

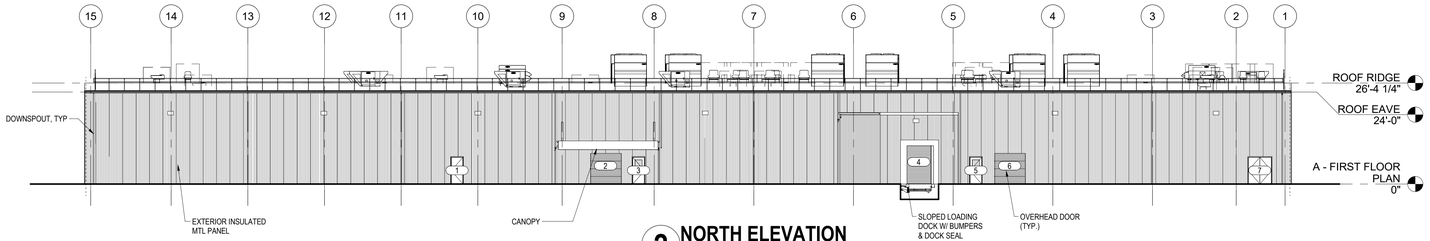
#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 08/07/25
Project Number: TA# 24003
Sheet Title: PARTIAL REFLECTED CEILING PLAN AREA-B

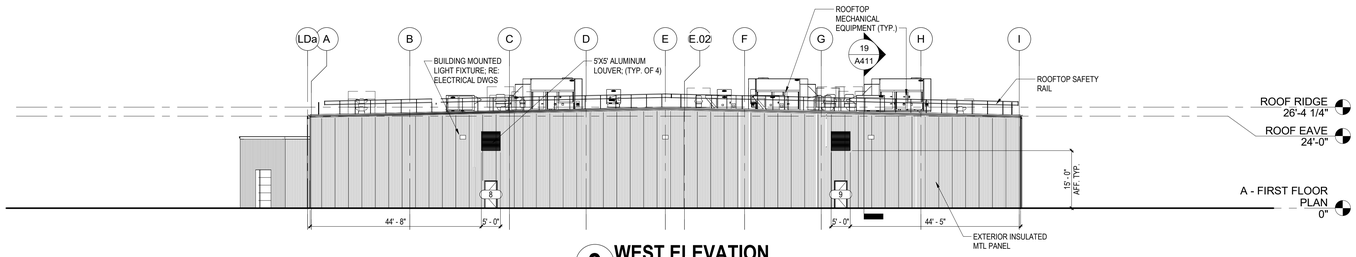
Sheet Number: A104b



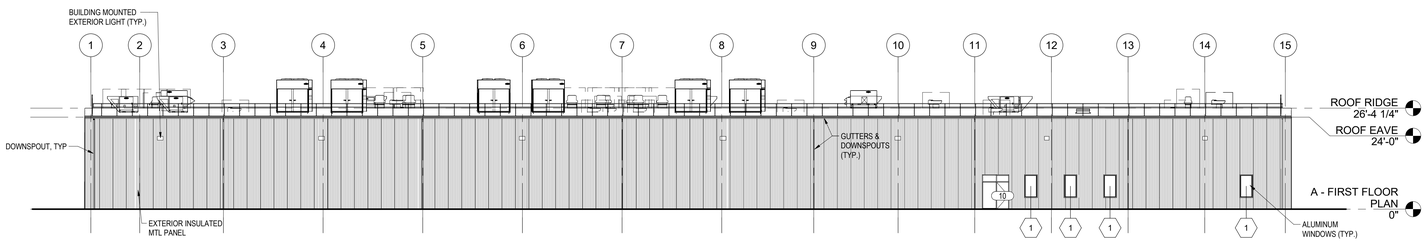
1 EAST ELEVATION
1/16" = 1'-0"



2 NORTH ELEVATION
1/16" = 1'-0"



3 WEST ELEVATION
1/16" = 1'-0"



4 SOUTH ELEVATION
1/16" = 1'-0"

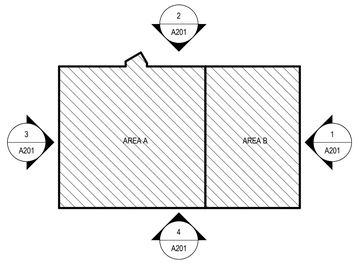
GENERAL NOTES

A. BUILDING ENVELOPE AND STRUCTURE BY PRE-ENGINEERED BUILDING (PEMB) MANUFACTURER UNLESS NOTED OTHERWISE.

B. REFER TO ENLARGED FLOOR PLANS, WALL SECTIONS, AND DETAILS FOR MORE INFORMATION.

C. COORDINATE EQUIPMENT, SIGNAGE, AND FURNITURE INSTALLATION WITH ALL TRADES AS REQUIRED.

D. ARCHITECT TO SELECT EXTERIOR INSULATED METAL PANEL FROM FULL RANGE OF PATTERNS AND COLORS.



KEY PLAN - ELEVATION
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Signature & Seal:

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

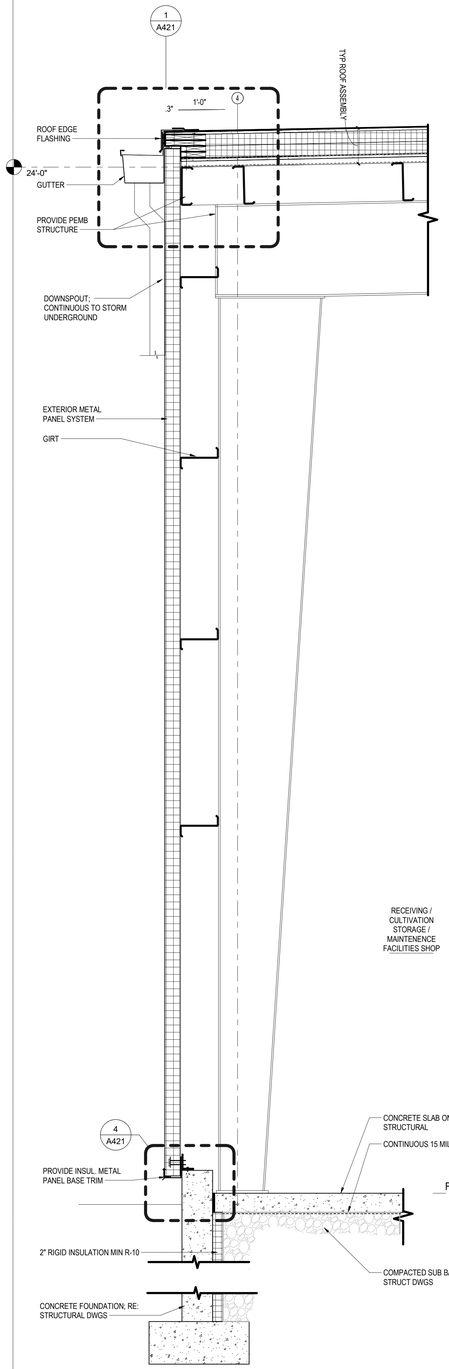
#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 10/10/2025
Project Number: TA# 24003
Sheet Title: EXTERIOR ELEVATIONS

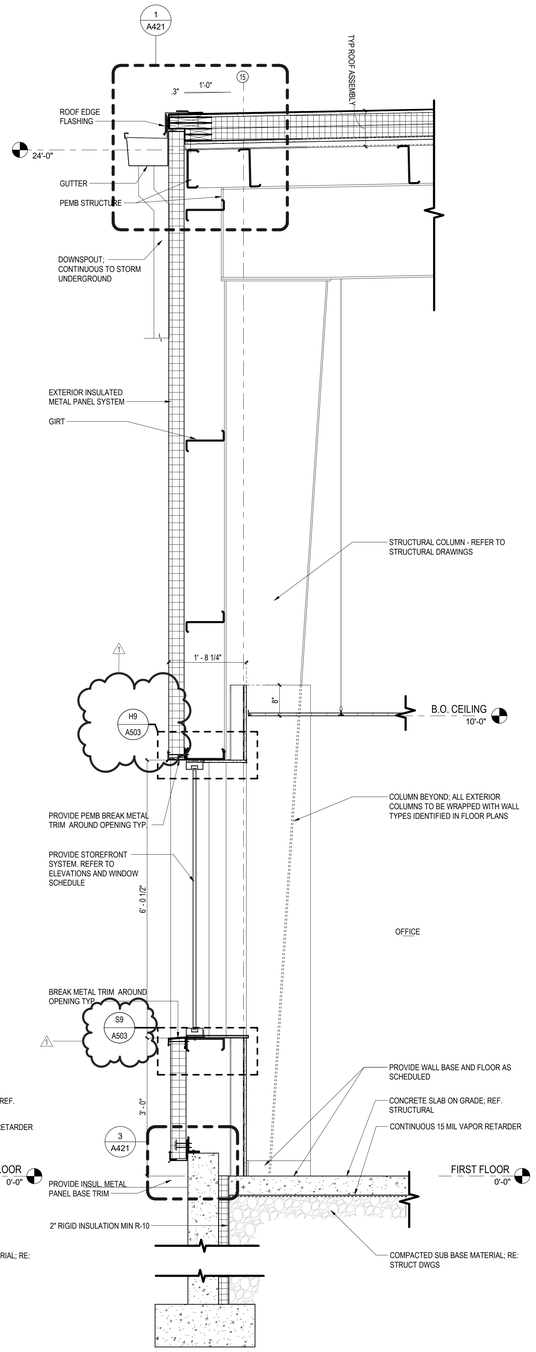
Sheet Number: A201

GENERAL NOTES

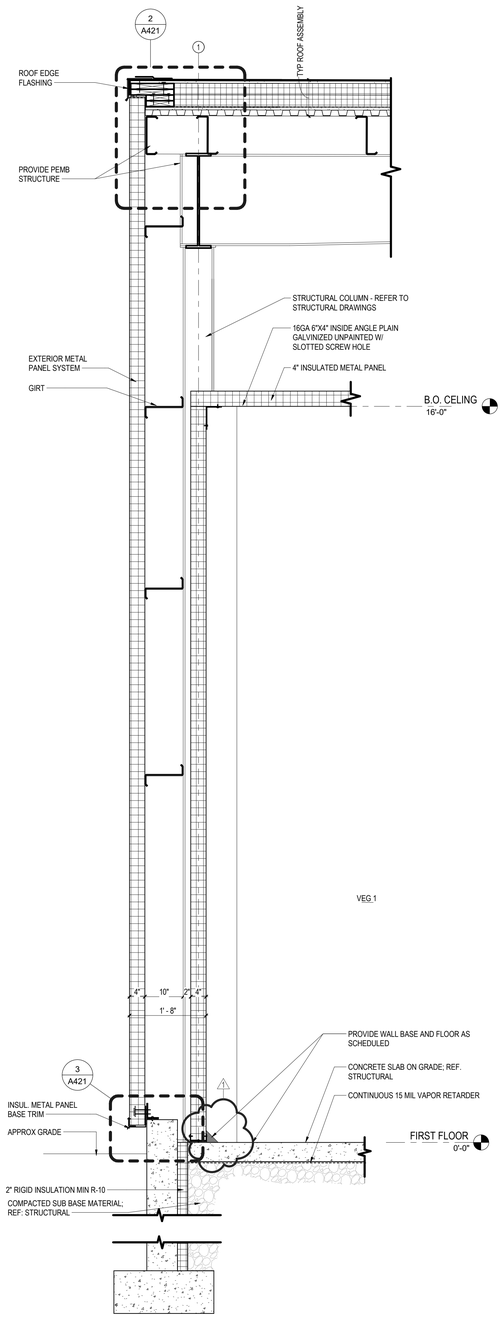
1. SEE DRAWING A101, A101A, A101B FOR LOCATION OF WALL SECTION CUTS



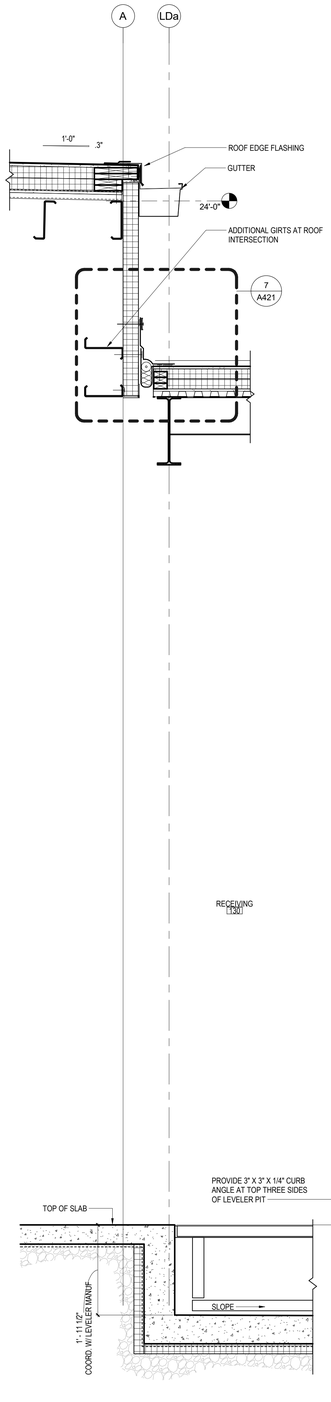
5 WALL SECTION - EXTERIOR WALL AT RECEIVING
3/4" = 1'-0"



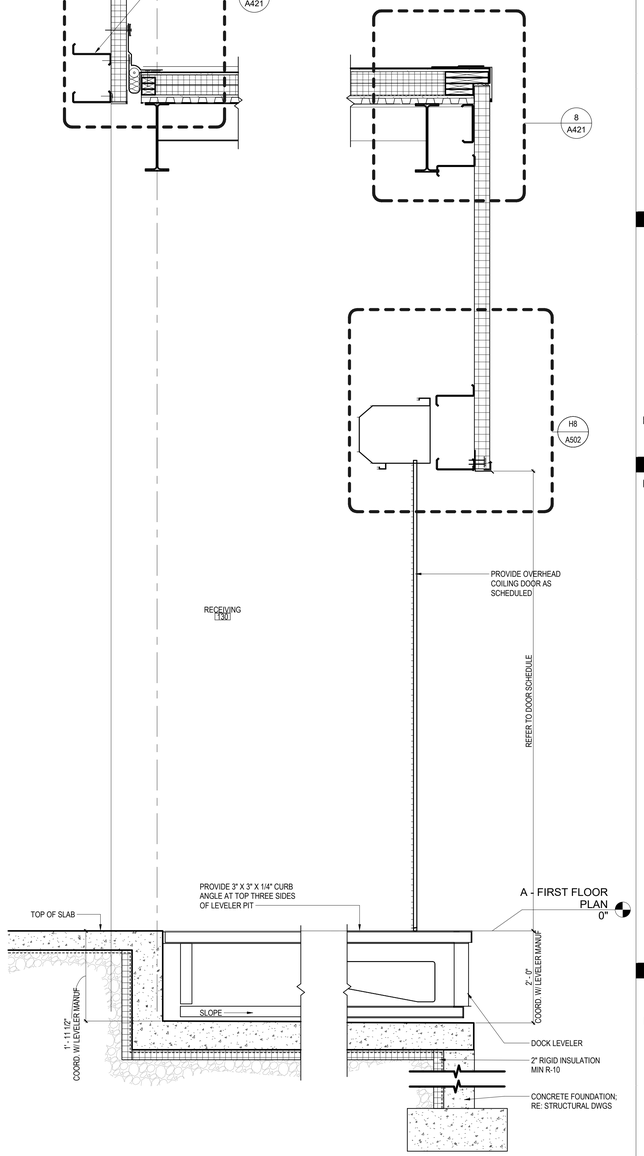
6 WALL SECTION - EXTERIOR WALL AT OFFICE
3/4" = 1'-0"



7 WALL SECTION - EXTERIOR WALL AT VEG 1
3/4" = 1'-0"



8 WALL SECTION - BUILDING TO LOADING DOCK
3/4" = 1'-0"



9 WALL SECTION - LOADING DOCK
3/4" = 1'-0"

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

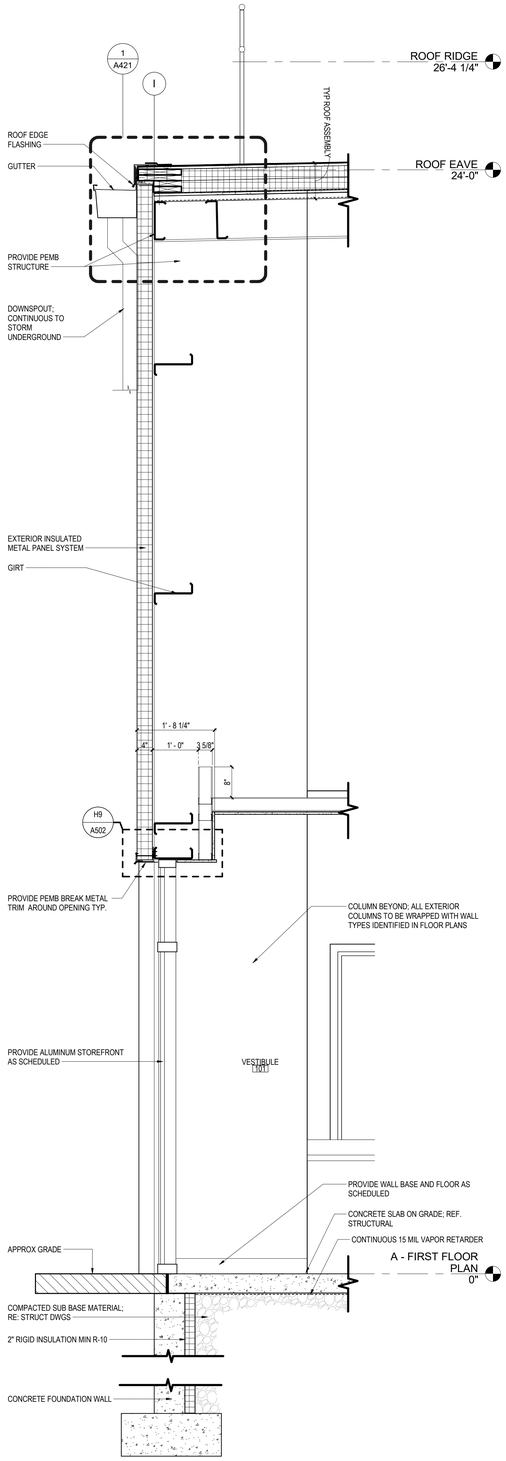
#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: NFC
Project Number: TA# 24003
Sheet Title: **WALL SECTIONS**

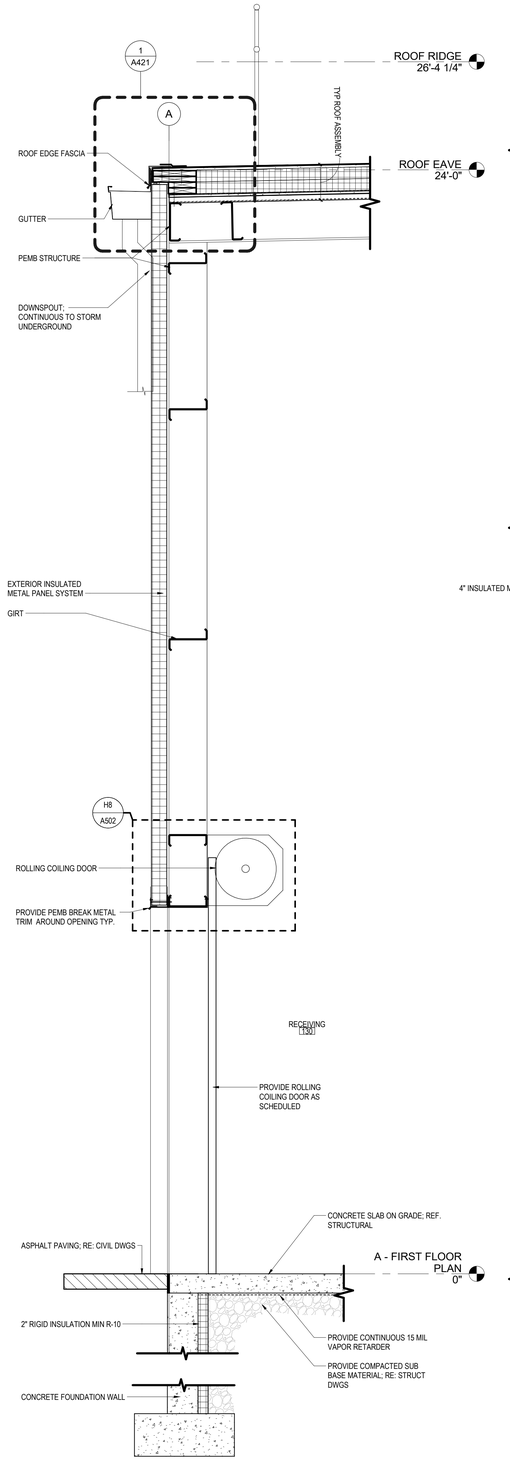
Sheet Number: **A402**

GENERAL NOTES

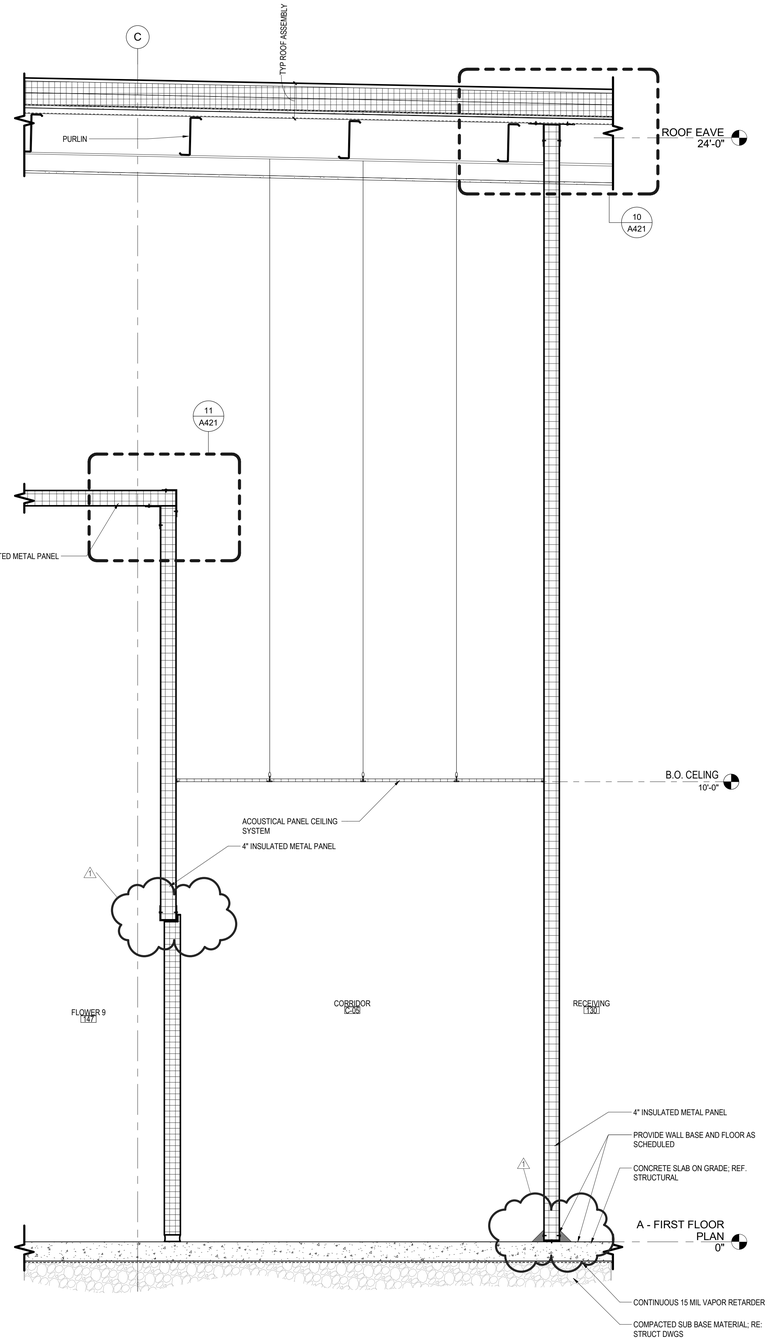
1. SEE DRAWING A101, A101A, A101B FOR LOCATION OF WALL SECTION CUTS



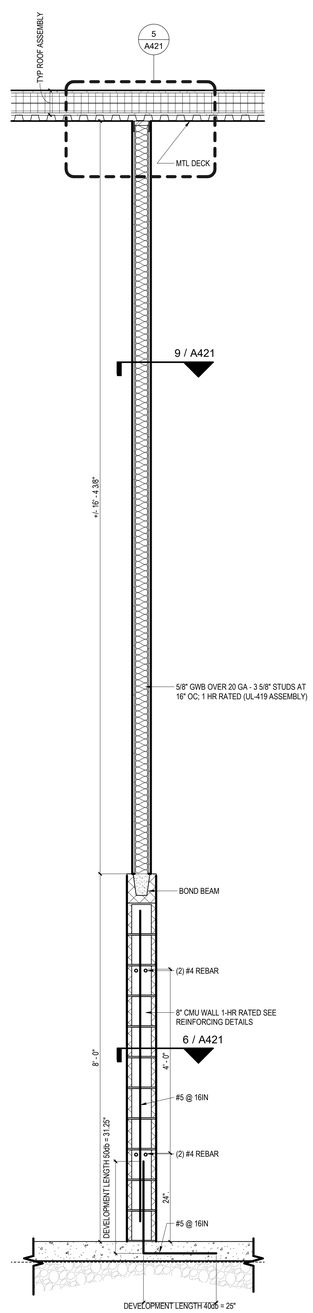
10 WALL SECTION - VESTIBULE
3/4" = 1'-0"



11 WALL SECTION - RECEIVING OVERHEAD DOOR
3/4" = 1'-0"



12 WALL SECTION - FLOWER 9 / CORRIDOR / RECEIVING
3/4" = 1'-0"



13 TYP RATED CMU WALL
3/4" = 1'-0"

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Client: 11580 Walden Ave LLC

Project: Alden Green House

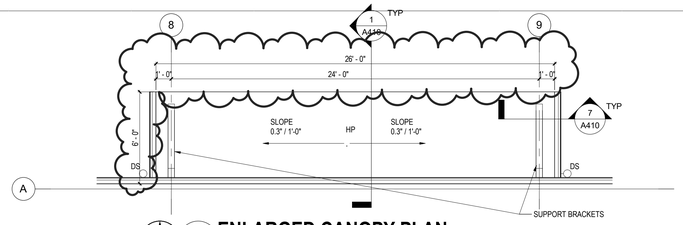
Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

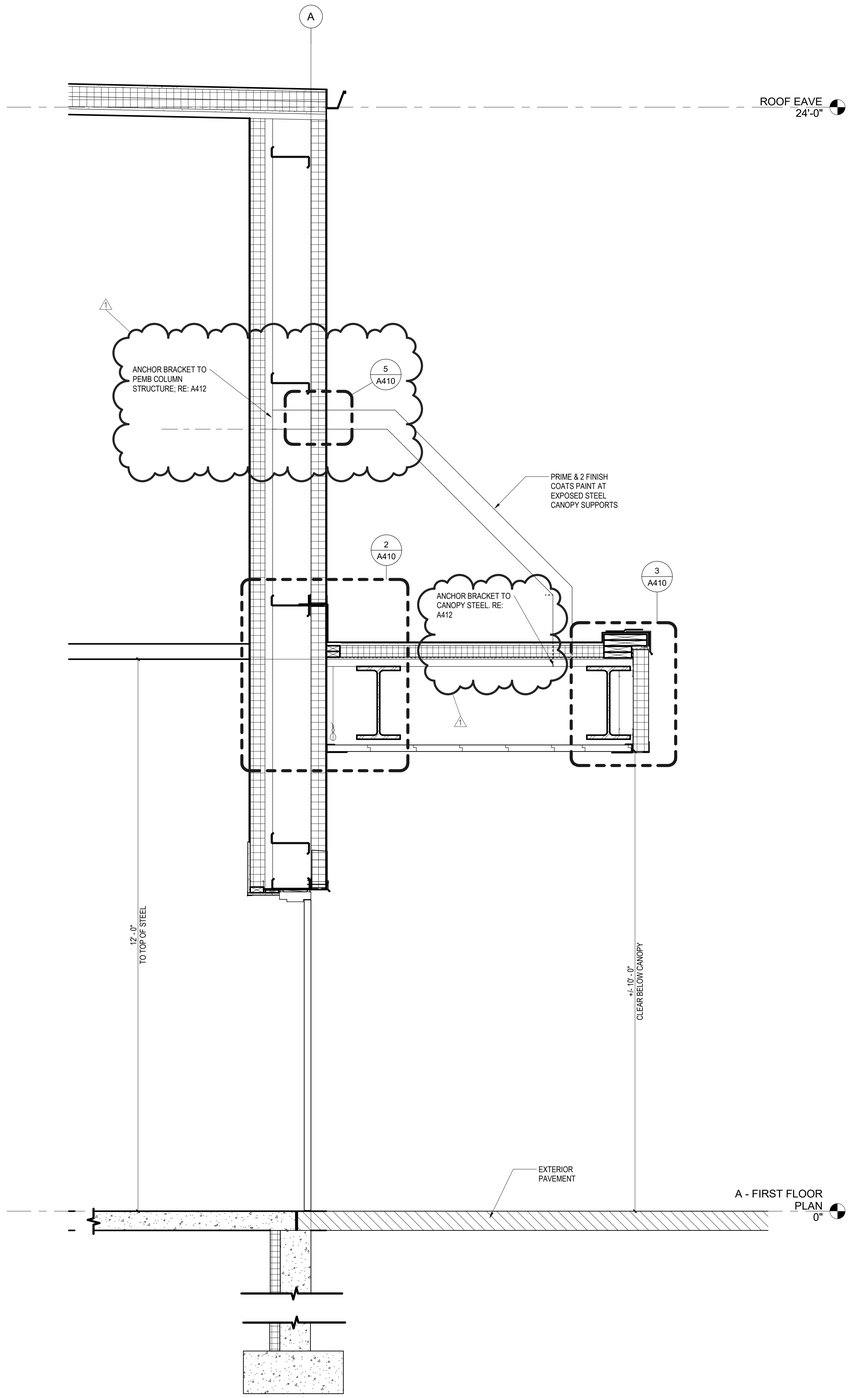
#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 10/21/25
Project Number: TA# 24003
Sheet Title: WALL SECTIONS

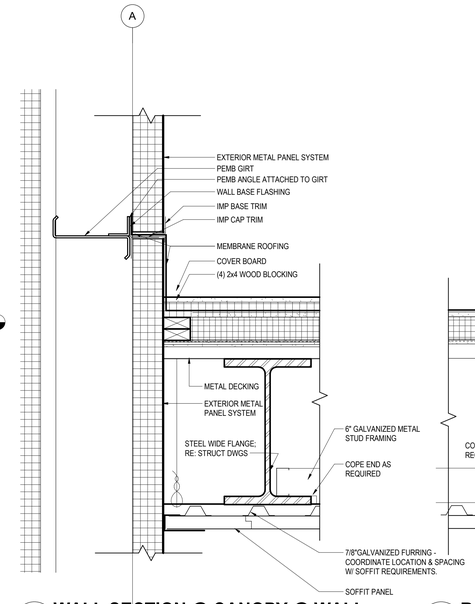
Sheet Number: A403



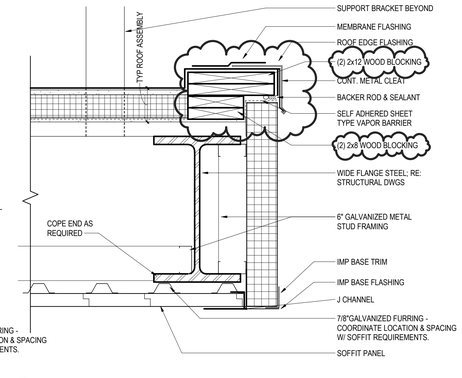
6 ENLARGED CANOPY PLAN
1/4" = 1'-0"
REFERENCED FROM SHEET: A105



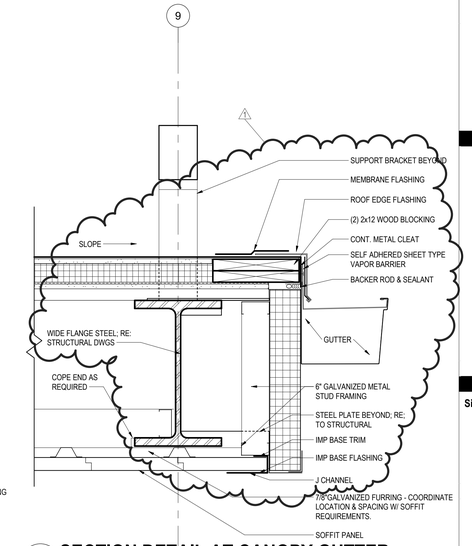
1 WALL SECTION @ CANOPY
3/4" = 1'-0"



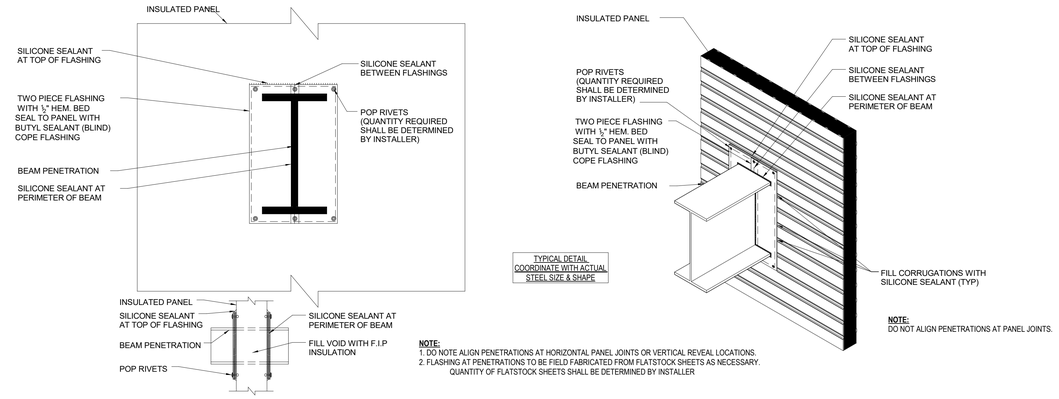
2 WALL SECTION @ CANOPY @ WALL
1 1/2" = 1'-0"



3 ROOF SECTION @ CANOPY @ ROOF EDGE
1 1/2" = 1'-0"



7 SECTION DETAIL AT CANOPY GUTTER
1 1/2" = 1'-0"

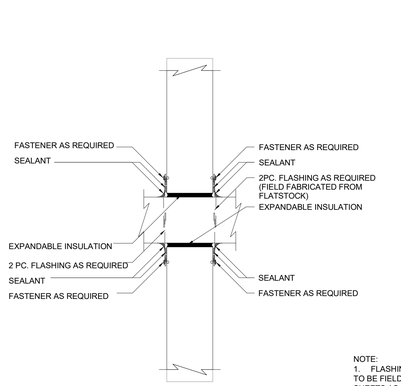


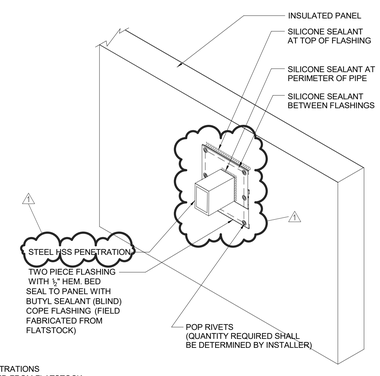
TYPICAL DETAIL
COORDINATE WITH ACTUAL
STEEL SIZE & SHAPE

NOTE:
1. DO NOTE ALIGN PENETRATIONS AT HORIZONTAL PANEL JOINTS OR VERTICAL REVEAL LOCATIONS.
2. FLASHING AT PENETRATIONS TO BE FIELD FABRICATED FROM FLATSTOCK SHEETS AS NECESSARY. QUANTITY OF FLATSTOCK SHEETS SHALL BE DETERMINED BY INSTALLER

NOTE:
DO NOT ALIGN PENETRATIONS AT PANEL JOINTS.

4 WIDE FLANGE PENETRATION AT WALL DETAIL
3" = 1'-0"





NOTE:
1. FLASHING AT PENETRATIONS TO BE FIELD FABRICATED FROM FLATSTOCK SHEETS AS NECESSARY. QUANTITY OF FLATSTOCK REQUIRED SHALL BE DETERMINED BY INSTALLER
2. DO NOT ALIGN PENETRATIONS AT HORIZONTAL PANEL JOINTS OR VERTICAL REVEAL LOCATION

5 HSS WALL PENETRATION DETAIL
3" = 1'-0"

NOTE:
REFER TO SHEET A412 FOR CANOPY STRUCTURAL DETAILS
HP HIGH POINT
DS DOWNSPOUT

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Signature & Seal:
REGISTERED ARCHITECT TIMOTHY MICHAEL MOSER 028216-1 STATE OF NEW YORK
4/30/2026
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 11/19/25
Project Number: TA# 24003
Sheet Title: CANOPY SECTION & DETAILS

Sheet Number: A410

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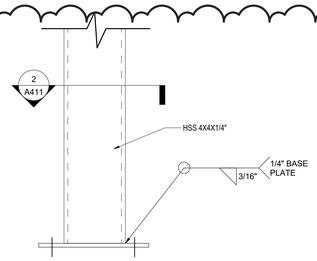
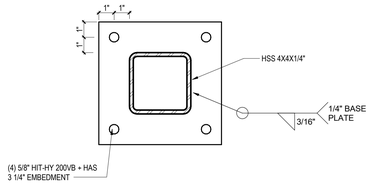
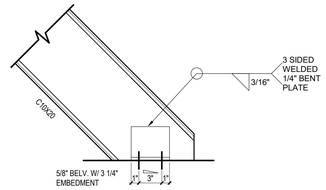


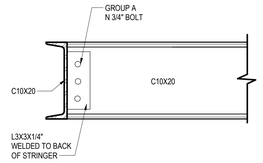
1 HSS COL. BASE
3" = 1'-0"



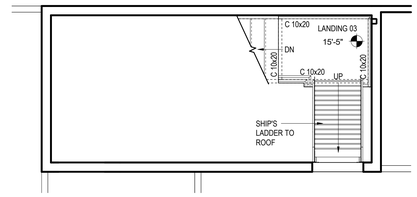
2 HSS COL. BASE PLATE
3" = 1'-0"



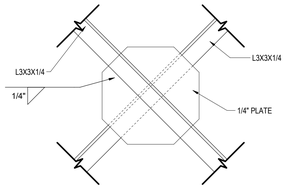
3 STRINGER BOTTOM CONN. AT SLAB
1 1/2" = 1'-0"



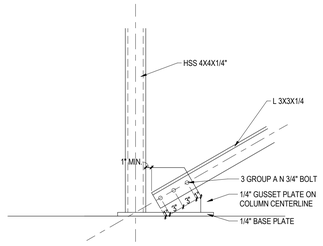
4 STAIR FRAMING DETAIL
1 1/2" = 1'-0"



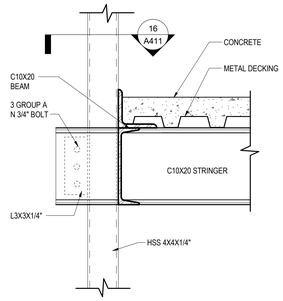
5 STAIR LANDING 03 / SHIP'S LADDER PLAN
1/4" = 1'-0"



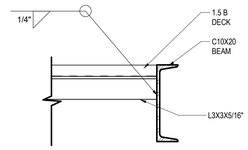
6 BRACING CONNCECTION
1" = 1'-0"



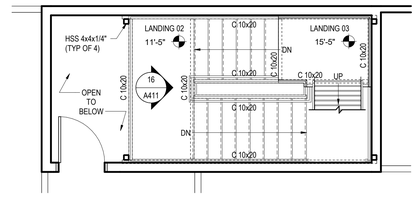
7 BRACING CONNCECTION @ COL. BASE
1" = 1'-0"



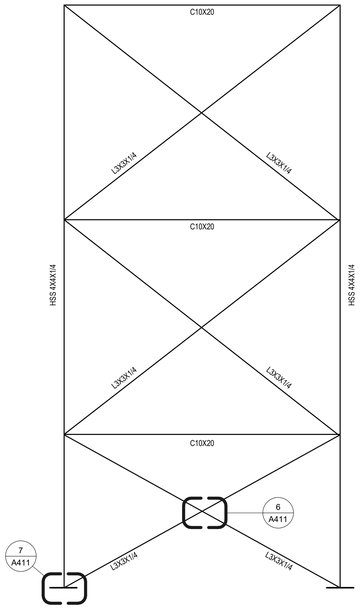
8 STAIR FRAMING DETAIL
1 1/2" = 1'-0"



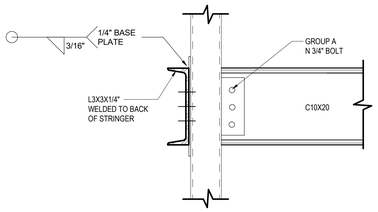
9 LANDING CONNECTION DETAIL
1 1/2" = 1'-0"



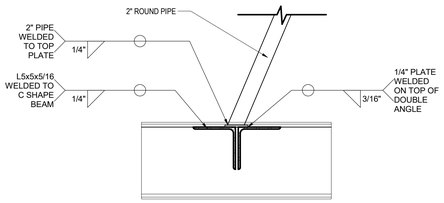
10 STAIR LANDING 02 TO STAIR LANDING 03 PLAN
1/4" = 1'-0"



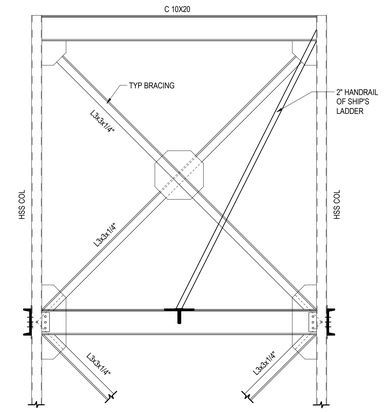
11 BRACING ELEVATION DETAIL
NOT TO SCALE



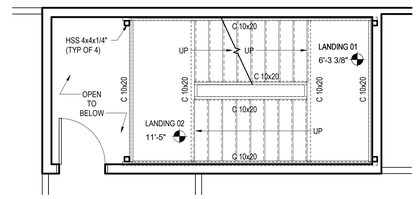
12 STAIR FRAMING DETAIL
1 1/2" = 1'-0"



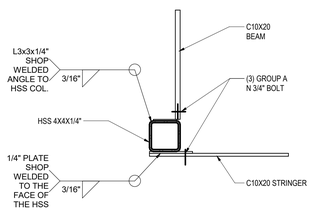
13 TOP LANDING CONNECTION DETAIL
1 1/2" = 1'-0"



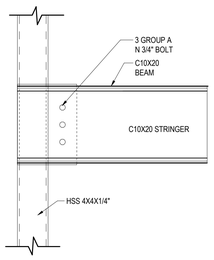
14 BRACING CONNECTION ELEVATION
1/2" = 1'-0"



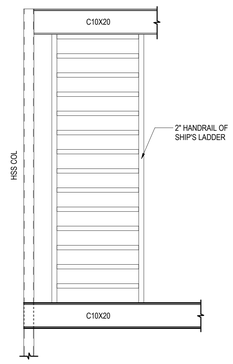
15 STAIR LANDING 01 TO STAIR LANDING 02 PLAN
1/4" = 1'-0"



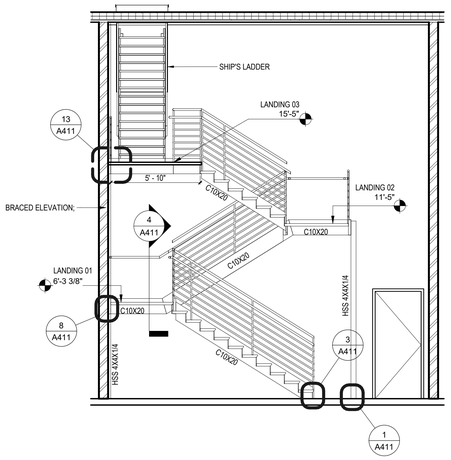
16 HSS COL. CONNECTION DETAIL
1 1/2" = 1'-0"



17 STAIR FRAMING DETAIL
1 1/2" = 1'-0"

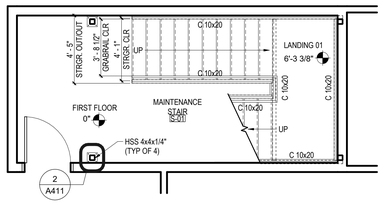


18 STAIR FRAMING DETAIL
1/2" = 1'-0"



19 STAIR SECTION KEY
1/4" = 1'-0"

NOTE:
STAIRS TO RECEIVE DTM PAINT.
STAIR LANDING FLOORS TO BE EPOXY-1.



20 FIRST FLOOR TO STAIR LANDING 01 PLAN
1/4" = 1'-0"

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Signature & Seal:

REGISTERED ARCHITECT
TIMOTHY MICHAEL MAIER
028281-1
STATE OF NEW YORK
4/30/2026
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

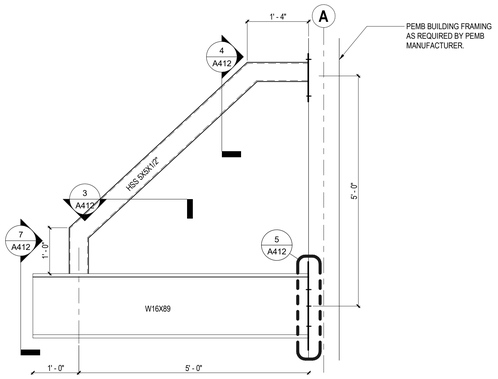
Drawing History:

#	Date	Description
1	01/09/26	PACKAGE 2 REV.

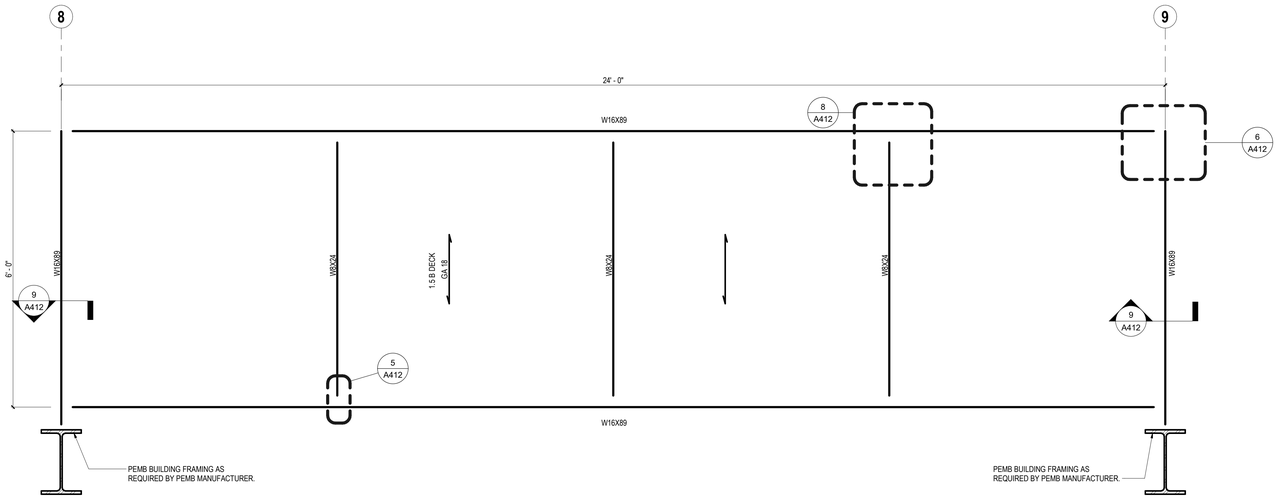
Date: 10/10/2025
Project Number: TA# 24003
Sheet Title: STAIR DETAILS

Sheet Number: A411

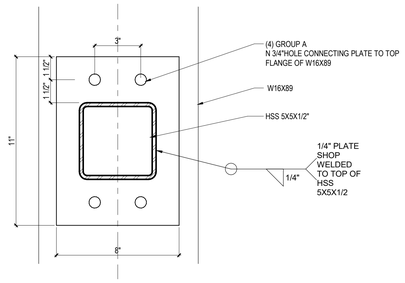
1/9/2026 4:13:03 PM



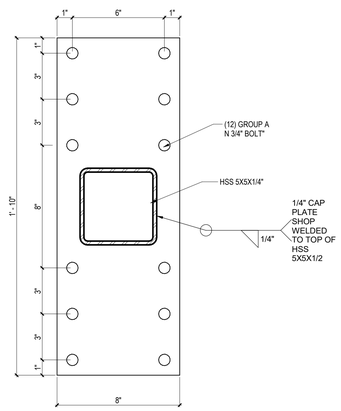
1 CANOPY SECTION
3/4" = 1'-0"



2 CANOPY FRAMING PLAN
3/4" = 1'-0"



3 CANOPY DETAIL
3" = 1'-0"



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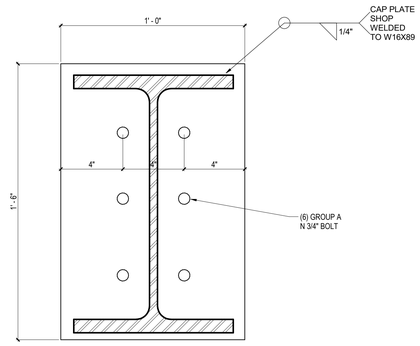
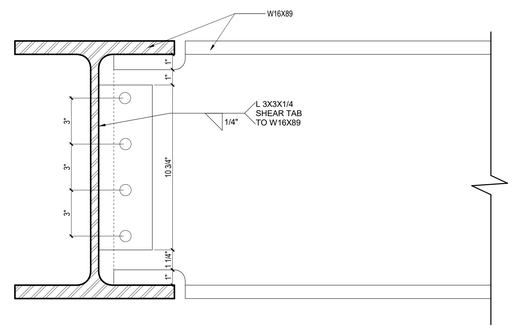
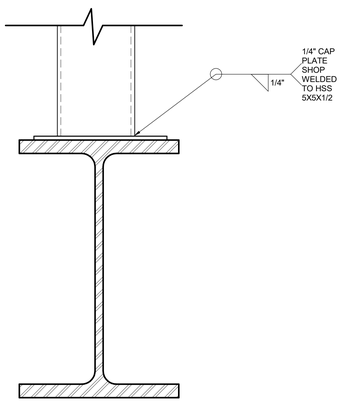
3" = 1'-0"



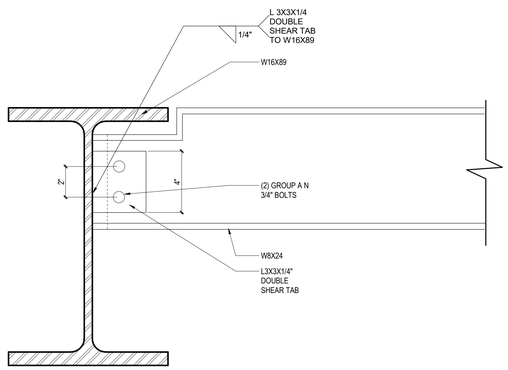
5 CANOPY DETAIL
3" = 1'-0"



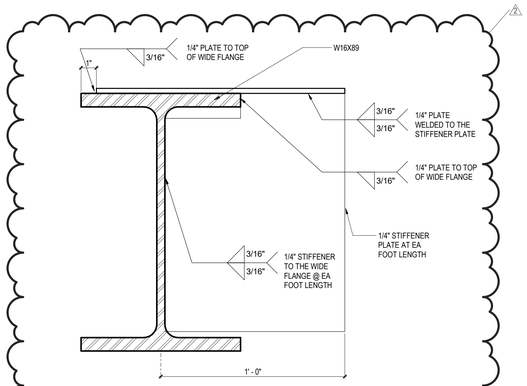
6 CANOPY DETAIL
3" = 1'-0"



7 CANOPY DETAIL
3" = 1'-0"



8 CANOPY DETAIL
3" = 1'-0"



9 CANOPY DETAIL
3" = 1'-0"

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BUFFALO, NY 14210

Signature & Seal:

REGISTERED ARCHITECT TIMOTHY MICHAEL MAIER 028216-1 STATE OF NEW YORK
4/30/2026
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 WALDEN AVE ALDEN, NY 14004

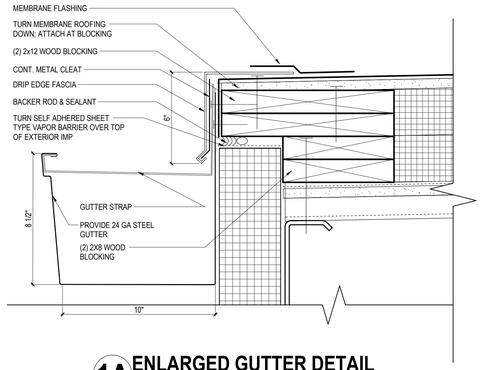
Drawing History:

#	Date	Description
1	12/05/25	UNDERSLAB REV.
2	01/09/26	PACKAGE 2 REV.

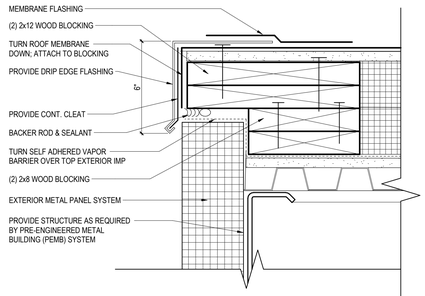
Date: 11/24/25
Project Number: TA# 24003
Sheet Title: CANOPY DETAILS

Sheet Number: A412

1/9/2026 4:13:04 PM



1A ENLARGED GUTTER DETAIL
3" = 1'-0"



2A ENLARGED RAKE DETAIL
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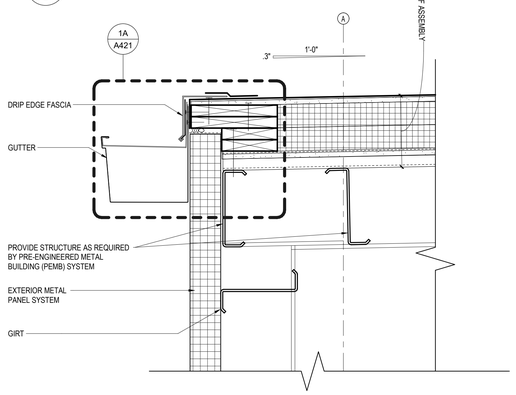
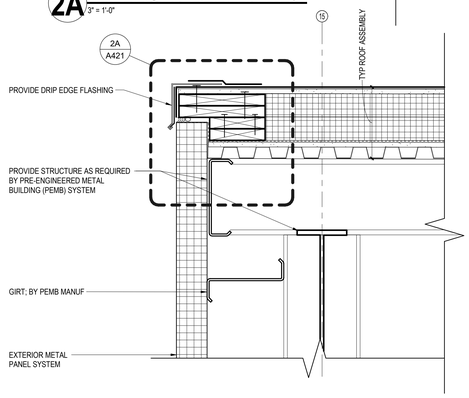


1 TYPICAL GUTTER DETAIL
1 1/2" = 1'-0"



2 TYPICAL RAKE DETAIL
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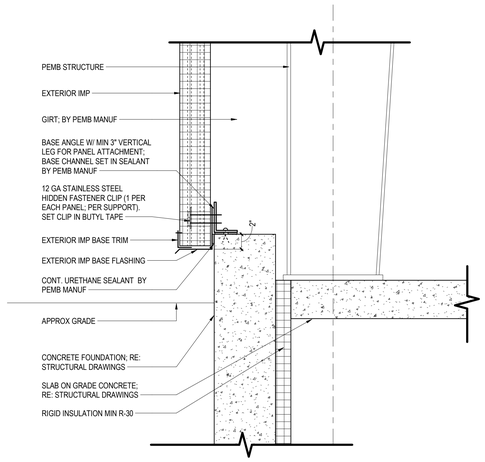
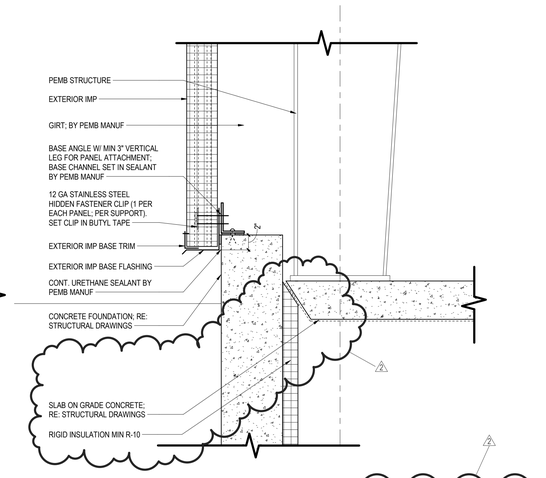
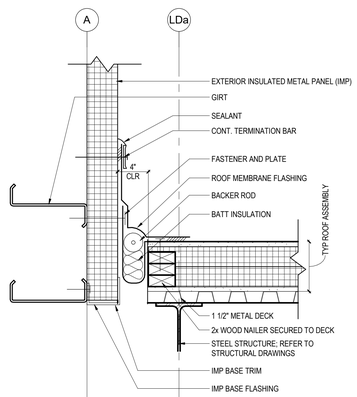


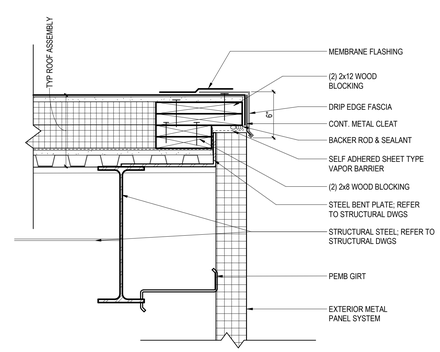
3 TYPICAL WALL BASE DETAIL - INSULATION
1 1/2" = 1'-0"



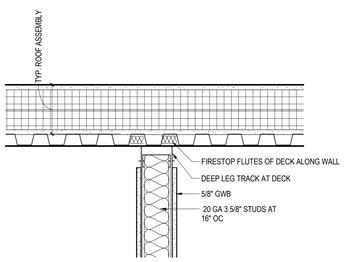
4 TYPICAL WALL BASE DETAIL - CANTED SLAB EDGE
1 1/2" = 1'-0"



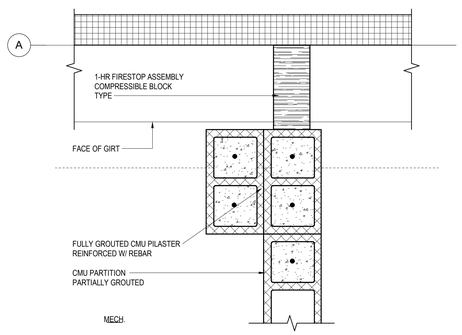
7 TYP EXPANSION JOINT DETAIL
1 1/2" = 1'-0"



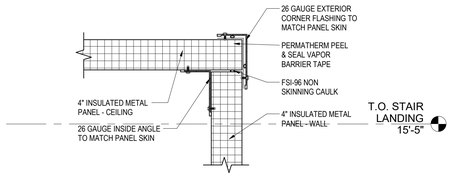
8 RAKE EDGE DETAIL @ LOADING DOCK
1 1/2" = 1'-0"



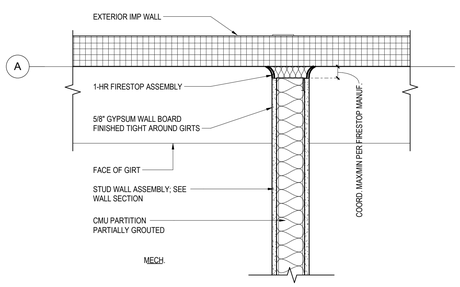
5 T.O. WALL 1 HR RATED DETAIL
1 1/2" = 1'-0"



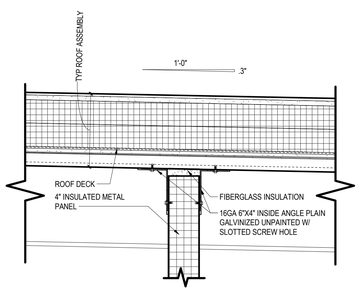
6 PLAN DETAIL @ RATED CMU WALL
1 1/2" = 1'-0"



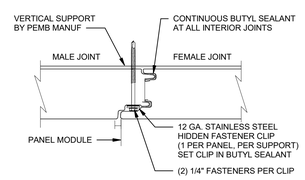
11 TYP INTERIOR IMP WALL TO CEILING DETAIL
1 1/2" = 1'-0"



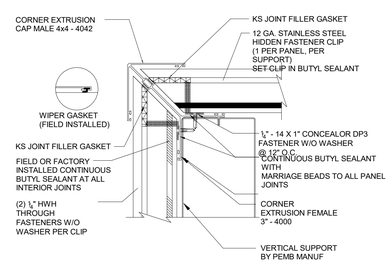
9 PLAN DETAIL @ RATED CMU WALL
1 1/2" = 1'-0"



10 TYP INTERIOR IMP WALL TO ROOF DECK
1 1/2" = 1'-0"



12 PANEL TO PANEL JOINT DETAIL
1 1/2" = 1'-0"



13 CORNER PANEL TO PANEL DETAIL
1 1/2" = 1'-0"

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Signature & Seal:

REGISTERED ARCHITECT TIMOTHY MICHAEL MAIER 028310-1 STATE OF NEW YORK

4/30/2026
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

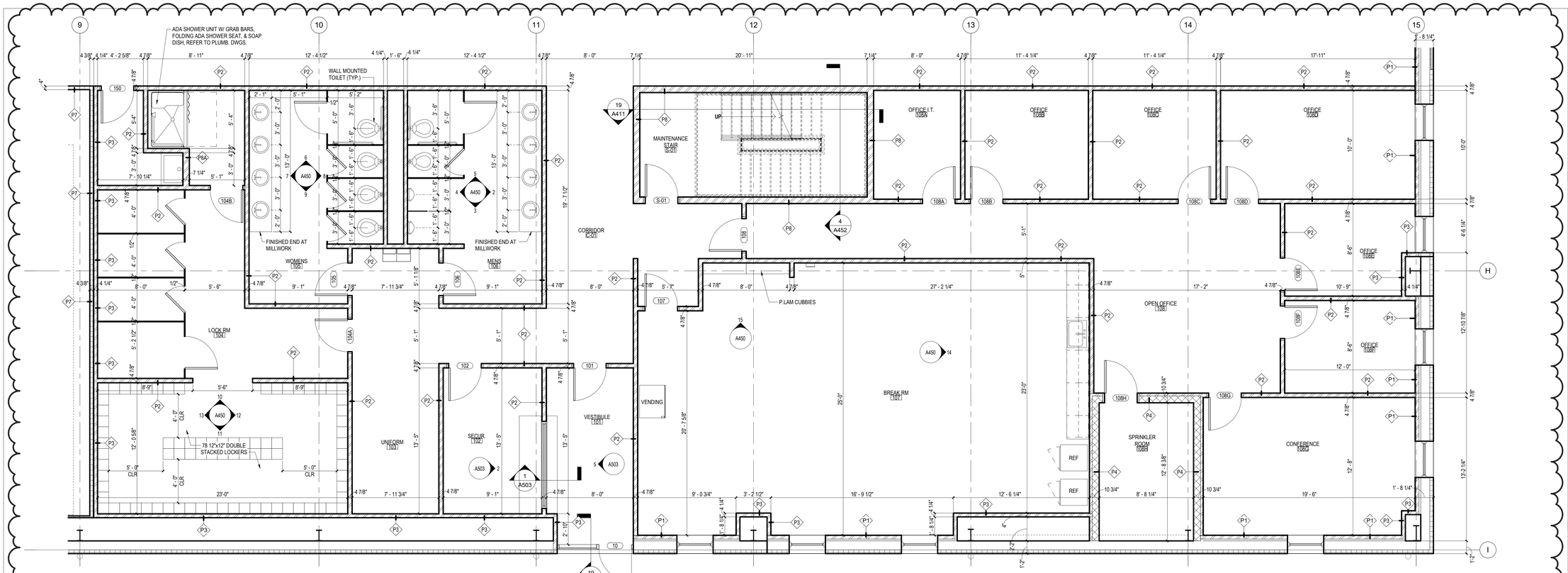
Drawing History:

#	Date	Description
1	12/05/25	UNDERSLAB REV.
2	01/09/26	PACKAGE 2 REV.

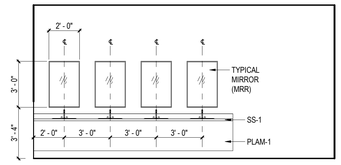
Date: 10/21/25
Project Number: TA# 24003
Sheet Title: ENLARGED DETAILS

Sheet Number: A421

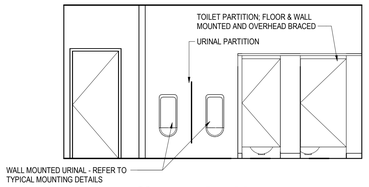
1/9/2026 4:13:09 PM



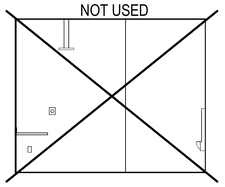
1 ENLARGED ADMIN. OFFICE PLAN
1/4" = 1'-0"



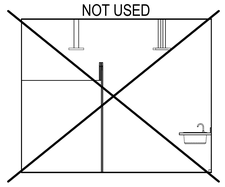
2 MENS TOILET
1/4" = 1'-0"



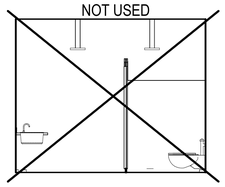
4 MENS TOILET
1/4" = 1'-0"



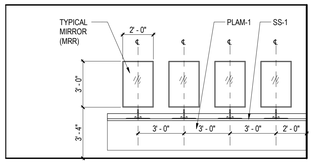
3 MENS TOILET
1/4" = 1'-0"



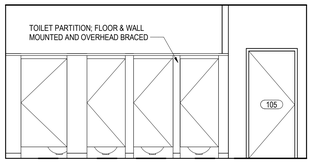
5 MENS TOILET
1/4" = 1'-0"



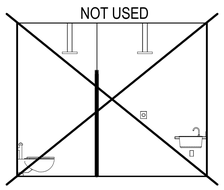
6 MENS TOILET
1/4" = 1'-0"



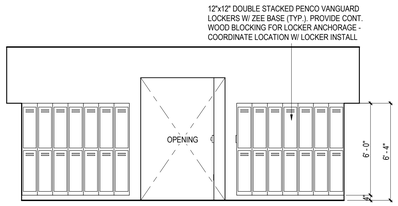
7 WOMENS TOILET
1/4" = 1'-0"



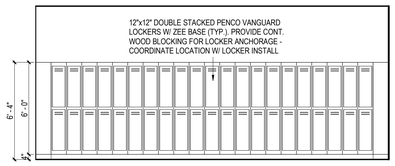
8 WOMENS TOILET
1/4" = 1'-0"



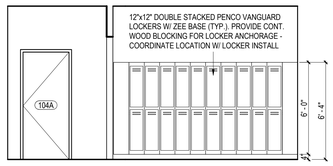
9 WOMENS TOILET
1/4" = 1'-0"



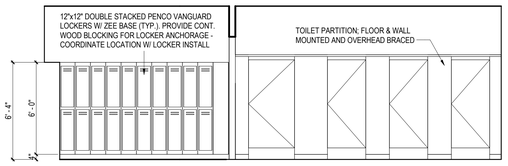
10 LOCKER RM
1/4" = 1'-0"



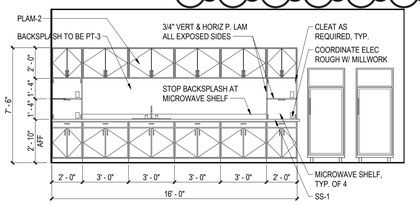
11 LOCKER RM
1/4" = 1'-0"



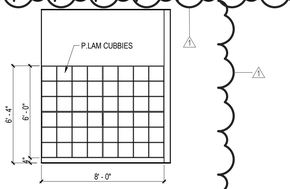
12 LOCKER RM
1/4" = 1'-0"



13 LOCKER RM
1/4" = 1'-0"



14 BREAK RM
1/4" = 1'-0"



15 BREAK RM CUBBIES
1/4" = 1'-0"

TOILET AND LOCKER ROOM ACCESSORIES SCHEDULE

GENERAL NOTE: REFER TO G003 FOR MOUNTING HEIGHTS & LOCATIONS
INSTALL ACCESSORIES PER MANUF. WRITTEN INSTRUCTION FOR ACCESSIBILITY.

GB-1 PRODUCT: GRAB BAR 1
MANUFACTURER: BRADLEY
FINISH: STAINLESS STEEL

MRR-1 PRODUCT: MIRROR 1
MANUFACTURER: BRADLEY
PRODUCT: FIXED TILE MIRROR WITH SHELF
SIZE: 24" x 36"

SD-1 PRODUCT: SOAP DISPENSER
MANUFACTURER: BRADLEY
MODEL: VERGE DECK-MOUNTED SOAP DISPENSER - METRO SERIES (6-3300)
FINISH: BRUSHED STAINLESS

PTD-1 PRODUCT: PAPER TOWEL DISPENSER/WASTE CONTAINER
MANUFACTURER: BRADLEY
MODEL: COMBINATION FOLDED PAPER TOWEL DISPENSER/WASTE CONTAINER 2A05 RECESSED

SCR-1 PRODUCT: SHOWER CURTAIN ROD 1
MANUFACTURER: BRADLEY
MODEL: 9538

SC-1 PRODUCT: SHOWER CURTAIN 1
MANUFACTURER: BRADLEY
PRODUCT: ANTIMICROBIAL VINYL SHOWER CURTAIN
COLOR: TO BE SELECTED

TP-1 PRODUCT: TOILET PARTITION 1
MANUFACTURER: GENERAL PARTITIONS
COLOR: MISTED ZEPHYR
NOTE: FLOOR AND WALL MOUNTED, OVERHEAD-BRACED

SND-1 PRODUCT: SANITARY NAPKIN DISPOSAL 1
MANUFACTURER: BRADLEY
MODEL: SURFACE MOUNTED 4722-15
FINISH: 22 GAUGE STAINLESS STEEL
NOTE: TYPICAL AT ALL WOMEN'S TOILET ROOMS

TTH-1 PRODUCT: TOILET TISSUE HOLDER 1
MANUFACTURER: BRADLEY
MODEL: TOILET TISSUE DISPENSER 523

LB-1 PRODUCT: ADA LOCKER BENCH
MANUFACTURER: PENCO
FINISH: HARDWOOD BENCH TOP WITH CLEAR LACQUER
SIZE: 24" DEEP SEAT
REFER TO PLAN FOR LENGTH. 42" MIN. REQ.
NOTE: HEAVY DUTY BENCH PEDESTALS SHALL BE ANCHORED TO FLOOR. SEATS WITHOUT BACKS MUST BE LOCATED ADJACENT A WALL.

GENERAL TOILET ROOM AND LOCKER ROOM NOTES:

A. ALL TOILET ROOM ACCESSORIES LISTED ARE BASIS OF DESIGN.

B. PROVIDE COAT HOOKS ON ALL PARTITION DOORS. REFER TO SPECIFICATIONS FOR DETAILS.

C. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO THE START OF CONSTRUCTION.

D. ALL DIMENSIONS ARE FACE OF FINISHED WALL, UNO.

E. FOR MOUNTING HEIGHTS REFER TO A101 TYPICAL MOUNTING HEIGHTS.

F. PROVIDE BLOCKING IN WALLS AS REQUIRED.

GENERAL CASEWORK NOTES:

A. ALL CABINET DOORS AND DRAWERS TO HAVE SOFT CLOSING HARDWARE.

B. PROVIDE FILLER PANELS AS NEEDED AT BOTH UPPER AND LOWER CABINETS TO MATCH ADJACENT CABINET FINISH.

C. PROVIDE BLOCKING IN WALLS AS REQ'D.

D. PROVIDE FINISHED END PANELS AT ALL EXPOSED ENDS OF CABINETRY.

E. ALL SOLID SURFACE COUNTERTOPS TO HAVE EASED EDGES.

F. ALL CABINET DOORS AND DRAWERS TO BE FLAT PANELS, FULL OVERLAY.

G. INSTALL ALL BASE AND FLOOR FINISHES UNDER ALL APPLIANCES AND CASEWORK LOCATIONS (TYP.).

H. PROVIDE TRIM, FILLER PANELS, AND FINISHED END PANELS AT CASEWORK TO ACCOMMODATE APPLIANCE OPENINGS.

I. COORDINATE ALL APPLIANCE OPENINGS FOR APPLIANCES THAT ARE NOT INCLUDED IN CONTRACT/OWNER PROVIDED WITH OWNER.

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REGISTERED ARCHITECT TIMOTHY MICHAEL MOSER 028281-1 STATE OF NEW YORK
4/30/2026
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

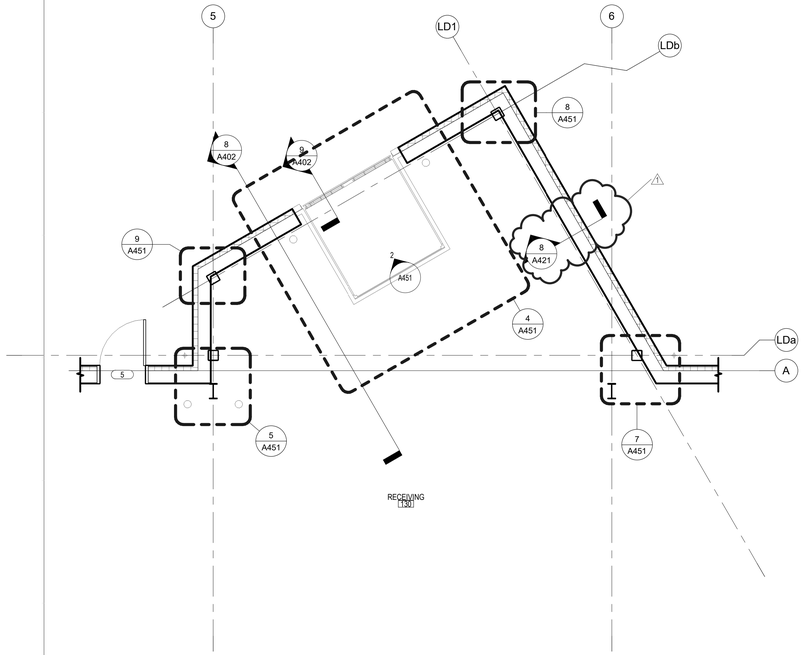
Project Address: 11580 WALDEN AVE ALDEN, NY 14004

Drawing History:

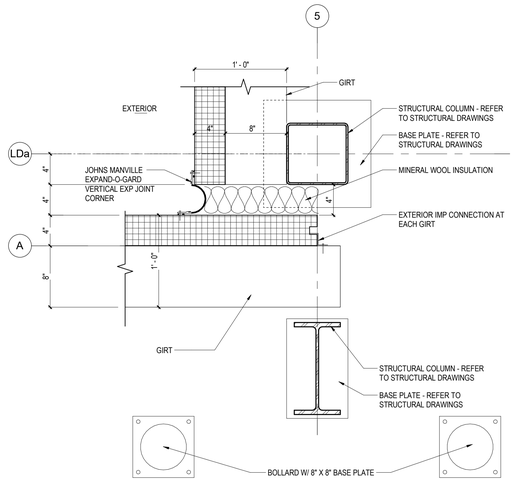
#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: NFC
Project Number: TA# 24003
Sheet Title: ENLARGED FLOOR PLANS, DETAILS AND INTERIOR ELEVATIONS

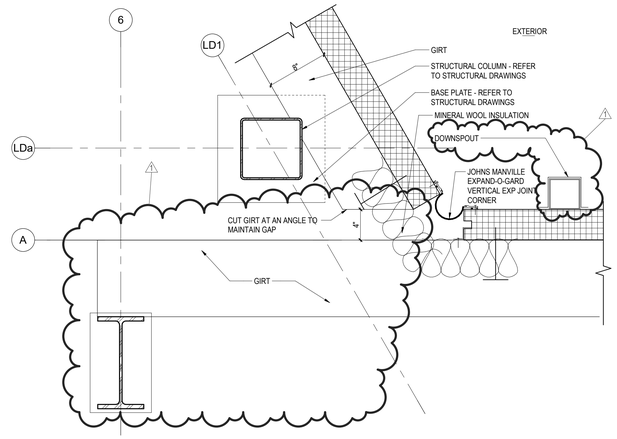
Sheet Number: A450



1 ENLARGED FLOOR PLAN - DEEP DOCK AREA
1/4" = 1'-0"

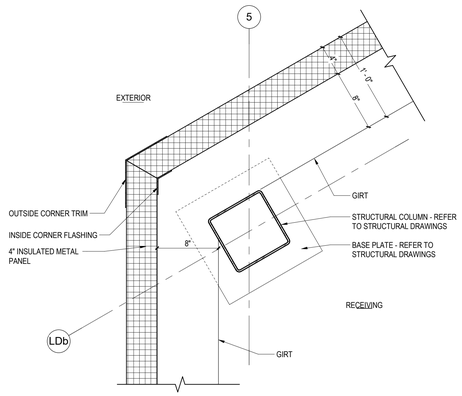


5 COLUMN DETAIL AT RECEIVING & FACILITIES
1 1/2" = 1'-0"

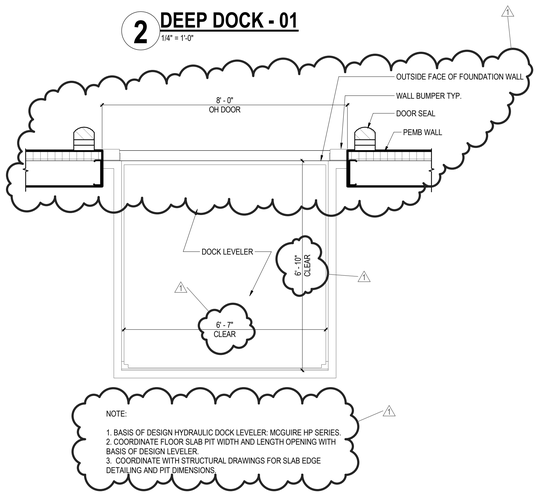


7 COLUMN DETAIL AT RECEIVING & FACILITIES
1 1/2" = 1'-0"

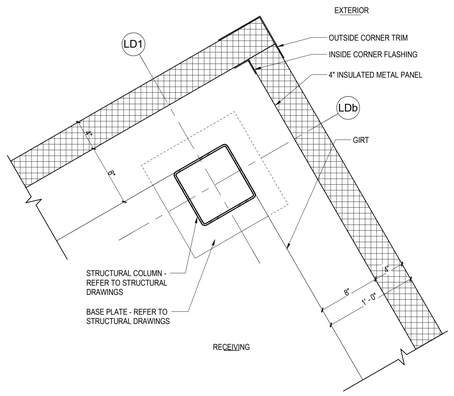
2 DEEP DOCK - 01
1/4" = 1'-0"



9 COLUMN DETAIL AT RECEIVING & FACILITIES
1 1/2" = 1'-0"



4 DOCK LEVELER
1/2" = 1'-0"



8 COLUMN DETAIL AT RECEIVING & FACILITIES
1 1/2" = 1'-0"

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Signature & Seal:

REGISTERED ARCHITECT TIMOTHY MICHAEL MOOR 028310-1 STATE OF NEW YORK
4/30/2026
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: NFC
Project Number: TA# 24003
Sheet Title: ENLARGED FLOOR PLANS, DETAILS AND INTERIOR ELEVATIONS

Sheet Number: A451

DOOR SCHEDULE

DOOR NO.	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	HARDWARE GROUP	FIRE RATING	REMARKS	DOOR NO.
1	3'-0"	7'-0"	F	INSUL. HM	1	HM	H7	J7	T2	01	-	A	1
2	8'-0"	8'-0"	OH1	STEEL	--	--	H8 SIM	J8 SIM	T1	29	-		2
3	3'-0"	7'-0"	V	INSUL. HM	1	HM	H7	J7	T2	01	-	A	3
4	8'-0"	10'-0"	OH1	STEEL	--	--	H8	J8	T5	29	-		4
5	3'-0"	7'-0"	V	INSUL. HM	1	HM	H7 SIM	J8 SIM	T2	01	-	A	5
6	8'-0"	8'-0"	OH1	STEEL	--	--	H8	J8	T1	02	-		6
7	6'-0"	7'-0"	V	INSUL. HM	1	HM	H7	J7	T2	02	-		7
8	3'-0"	7'-0"	F	INSUL. HM	1	HM	H7	J7	T2	01	-	A	8
9	3'-0"	7'-0"	F	INSUL. HM	1	HM	H7	J7	T2	01	-	A	9
10	3'-0"	7'-0"	FG2	AL	AL1	AL	H9	J9	T3 & T4	AL-01	-	A	10
101	3'-0"	7'-0"	V	HM	1	HM	H6	J6	-	03	-	A	101
102	3'-0"	7'-0"	F	HM	1	HM	H6	J6	-	04	-	A	102
104A	3'-0"	7'-0"	F	HM	1	HM	H6	J6	-	05	-		104A
104B	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	06	-		104B
105	3'-0"	7'-0"	F	HM	1	HM	H6	J6	-	05	-		105
106	3'-0"	7'-0"	F	HM	1	HM	H6	J6	-	05	-		106
107	3'-0"	7'-0"	HG	HM	1	HM	H6	J6	-	07	-		107
108	3'-0"	7'-0"	HG	HM	1	HM	H6	J6	-	08	-	A	108
108A	3'-0"	7'-0"	HG	HM	1	HM	H6	J6	-	09	-	A	108A
108B	3'-0"	7'-0"	HG	HM	1	HM	H6	J6	-	09	-		108B
108C	3'-0"	7'-0"	HG	HM	1	HM	H6	J6	-	09	-		108C
108D	3'-0"	7'-0"	HG	HM	1	HM	H6	J6	-	09	-		108D
108E	3'-0"	7'-0"	HG	HM	1	HM	H6	J6	-	09	-		108E
108F	3'-0"	7'-0"	HG	HM	1	HM	H6	J6	-	09	-		108F
108G	3'-0"	7'-0"	HG	HM	1	HM	H6	J6	-	10	-		108G
108H	3'-0"	7'-0"	F	HM	2	HM	H6	J6	-	11	-		108H
109A	4'-0"	7'-0"	F	HM	1	HM	H7	J1	-	12	-	A	109A
109B	4'-0"	7'-0"	F	HM	1	HM	H7	J1	-	12	-	A	109B
110A	4'-0"	7'-0"	F	HM	1	HM	H5	J5	-	13	-		110A
110B	4'-0"	7'-0"	F	HM	1	HM	H5	J5	-	13	-		110B
111A	4'-0"	7'-0"	F	HM	1	HM	H5	J5	-	13	-		111A
111B	4'-0"	7'-0"	F	HM	1	HM	H5	J5	-	13	-		111B
112A	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	14	-		112A
112B	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	14	-		112B
113A	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	15	-	A	113A
113B	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	16	-	A	113B
114	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	08	-	A	114
115	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	19	-		115
116	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	20	-		116
117	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	17	-		117
118	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	16	-		118
119	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	16	-		119
120	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	15	-	A	120
120A	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	18	-	A	120A
121	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	15	-	A	121
122	3'-0"	7'-0"	F	HM	1	HM	H6	J6	-	05	-		122
123	3'-0"	7'-0"	F	HM	1	HM	H6	J6	-	05	-		123
124	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	15	-		124
125	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	15	-		125
126	3'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	21	-		126
127A	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	15	-	A	127A
127B	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	15	-	A	127B
128B	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	22	-	A	128B
128C	6'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	22	-	A	128C
129A	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-	A	129A
129B	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		129B
129C	3'-0"	7'-0"	HG	HM	1	HM	H4	J4	-	23	-	A	129C
129D	3'-0"	7'-0"	HG	HM	1	HM	H10	J10	-	23	-	A	129D
129E	3'-0"	7'-0"	HG	HM	1	HM	H6	J6	-	23	-		129E
129F	8'-0"	8'-0"	OH2	STEEL	3	BMRP	H8	J8	-	29	-		129F
130A	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	24	-	A	130A
130B	8'-0"	8'-0"	OH2	STEEL	3	BMRP	H3	J3	-	29	-		130B
130C	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	24	-	A	130C
131A	3'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	24	-	A	131A
131B	3'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	24	-		131B
131C	8'-0"	8'-0"	OH2	STEEL	--	BMRP	H3	J3	-	29	-		131C
132	4'-0"	7'-0"	F	HM	1	HM	H2	J2	-	25	1-HR RATED	A	132
133	4'-0"	7'-0"	F	HM	2	HM	H2	J2	-	26	1-HR RATED	A	133
134	3'-0"	7'-0"	HG	HM	1	HM	H5	J5	-	23	-		134
135	3'-0"	7'-0"	N	HM	1	HM	H5	J5	-	06	-		135
136	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	19	-		136
137	3'-0"	7'-0"	F	HM	1	HM	H5	J5	-	27	-		137
138	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		138
139	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		139
140	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		140
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142	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		142
143	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		143
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145	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		145
146	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		146
147	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		147
148	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		148
149	4'-0"	7'-0"	P	INS METAL	3	BMRP	H1	J1	-	29	-		149
150	3'-0"	7'-0"	F	HM	1	HM	H6	J6	-	27	-		150
C-02	6'-0"	7'-0"	N	HM	1	HM	H6	J6	-	28	-	A	C-02
C-03	6'-0"	7'-0"	N	HM	1	HM	H6	J6	-	28	-	A	C-03
S-01	3'-0"	7'-0"	F	HM	1	HM	H4	J4	-	27	-		S-01

REMARKS:

A. DOOR CONTROLLED BY ELECTRONIC ACCESS CONTROL SYSTEM.

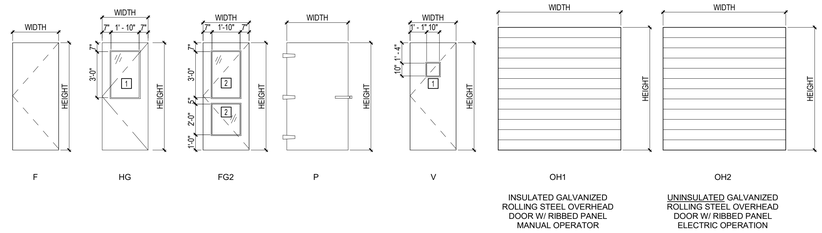
GENERAL NOTES:

A. ALL INTERIOR AND EXTERIOR HM DOORS & FRAMES ARE TO BE PRIMED AND PAINTED, SEE FINISHES FOR COLOR SELECTION(S).

B. COORDINATE INSTALLATION AND WIRING OF ALL DOOR HARDWARE AND ACCESS CONTROL SYSTEM DEVICES.

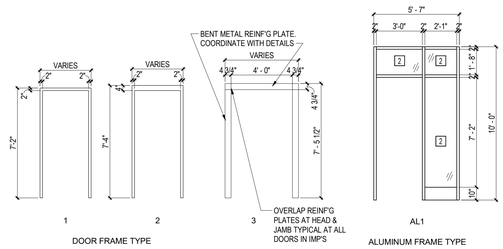
C. ALL INTERIOR AND EXTERIOR OH DOORS & TRACKS ARE TO BE FACTORY FINISHED.

D. NOT ALL OPENINGS REQUIRED TO HAVE BENT METAL REINF'G PLATES ARE SCHEDULED AS SUCH. REFER TO DETAILS TO COORDINATE THIS REQMT.



DOOR TYPES

1/4" = 1'-0"



FRAME TYPES

1/4" = 1'-0"

GLAZING SCHEDULE		
TYPE	THICKNESS	DESCRIPTION
1	1/4"	TEMPERED CLEAR VISION GLASS
2	1"	INSULATED TEMPERED SAFETY GLASS

GLAZING TYPES

NOT TO SCALE

ABBREVIATIONS:

INSUL. HM	INSULATED HOLLOW METAL
AL	ALUMINUM STOREFRONT
INS. METAL	INSULATED COOLER TYPE DOOR ASSEMBLY
HM	HOLLOW METAL
BMRP	BENT METAL REINF'G PLATE

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Signature & Seal:

REGISTERED ARCHITECT TIMOTHY MICHAEL MAHER 035281-1 STATE OF NEW YORK
4/30/2026
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

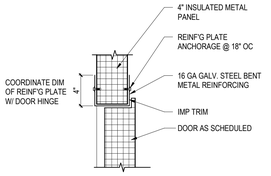
Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 12/02/2025
Project Number: TA# 24003
Sheet Title: DOOR SCHEDULE, TYPES AND DETAILS

Sheet Number: A501



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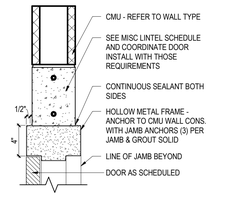

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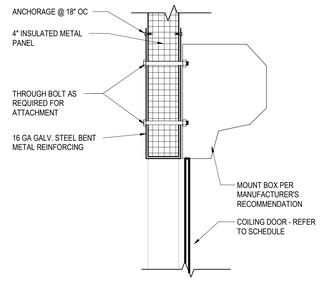

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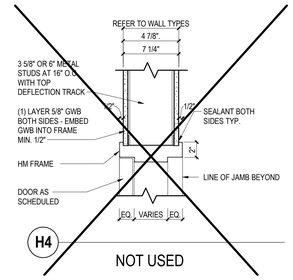

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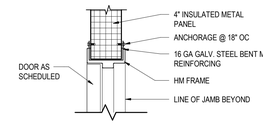

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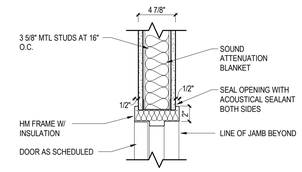

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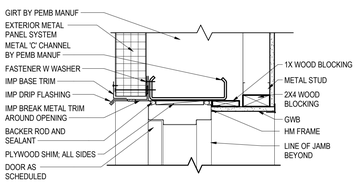

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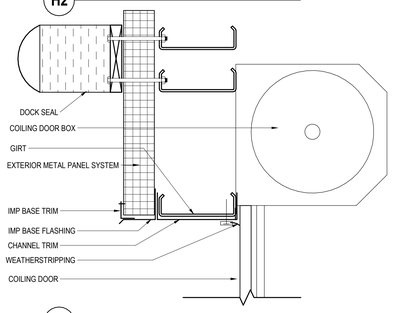

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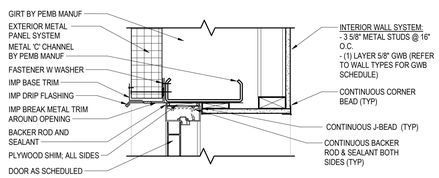

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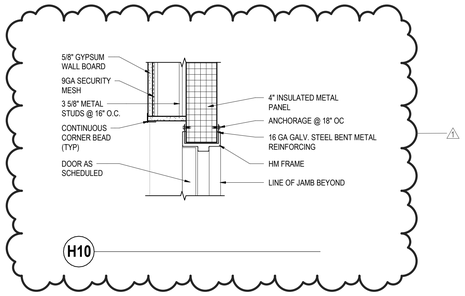

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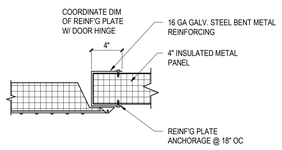

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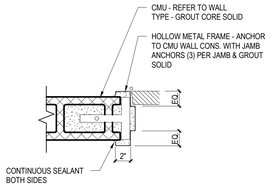

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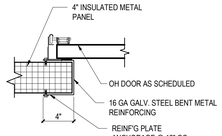

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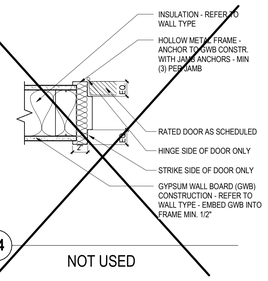

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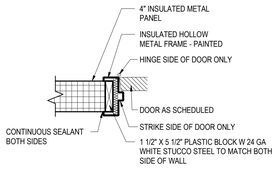

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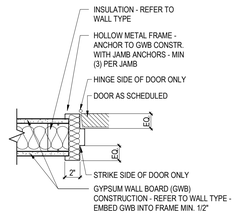

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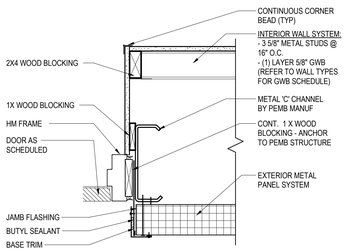

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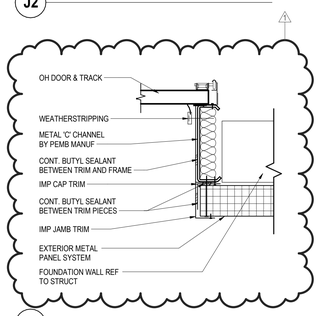

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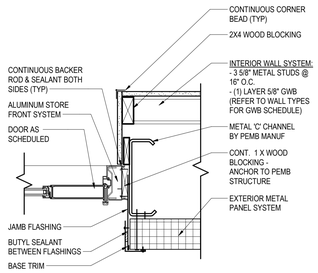

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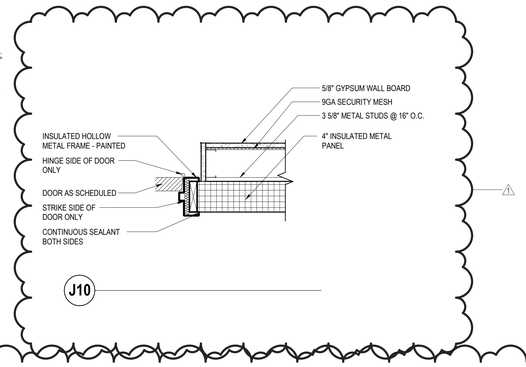

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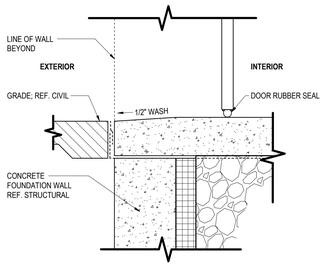
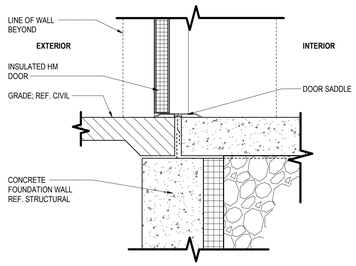


T1 - TYP. OVERHEAD DOOR THRESHOLD DETAIL



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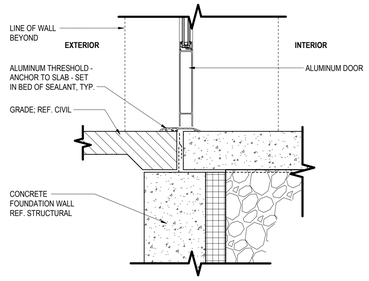

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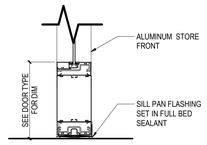

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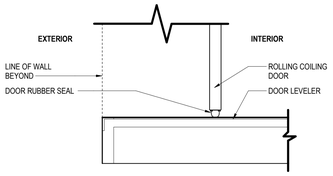

T5 - ROLLING COILING DOOR THRESHOLD - RECEIVING

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755 SENECA ST.
SUITE 200
BUFFALO, NY 14210

Signature & Seal:

REGISTERED ARCHITECT TIMOTHY MICHAEL NOON 035281-1 STATE OF NEW YORK

4/30/2026
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

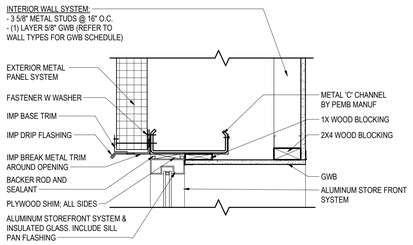
Project Address: 11580 WALDEN AVE ALDEN, NY 14004

Drawing History:

#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 12/02/2025
Project Number: TA# 24003
Sheet Title: DOOR DETAILS

Sheet Number: A502



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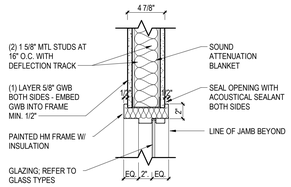

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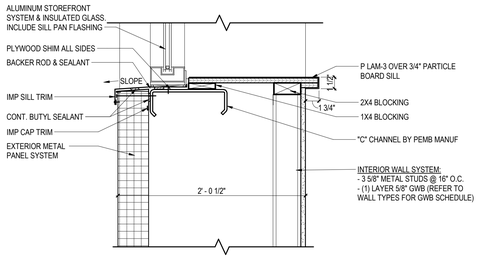

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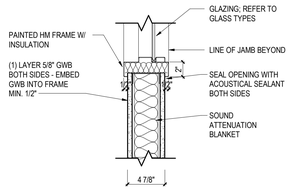

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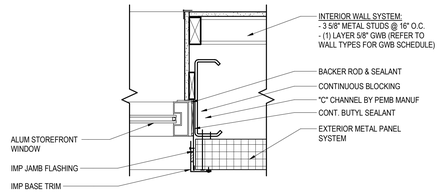
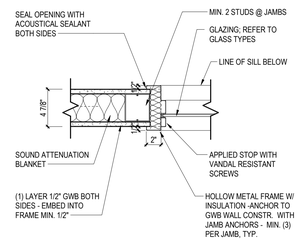


J9



J10

GENERAL WINDOW NOTES:

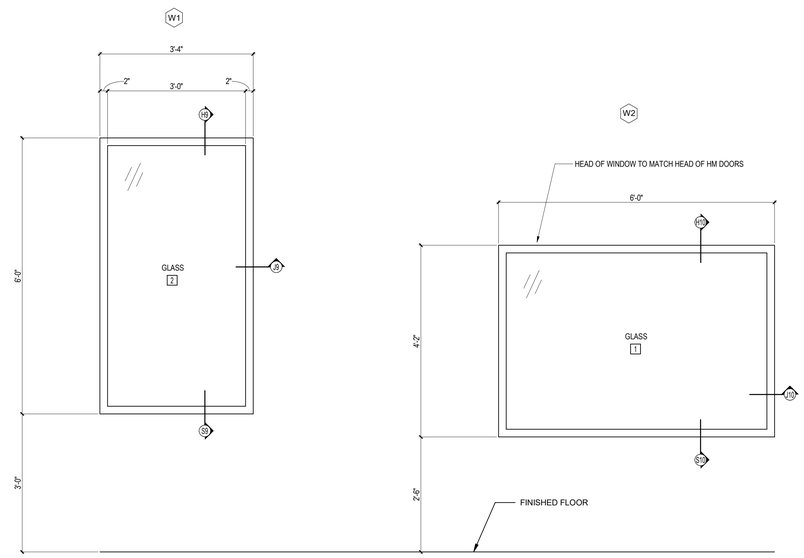
1. PRIME AND PAINT ALL HM FRAMES

WINDOW SCHEDULE				
MARK	WIDTH	HEIGHT	SILL HEIGHT AFF	NOTES
W1	3'-4"	6'-0"	3'-0"	EXTERIOR
W2	6'-0"	4'-2"	3'-0"	INTERIOR
W3	8'-0"	4'-7"	2'-7"	W/ BEAL TRAY AND SPEAK THRU GRILLE

GLASS TYPES:

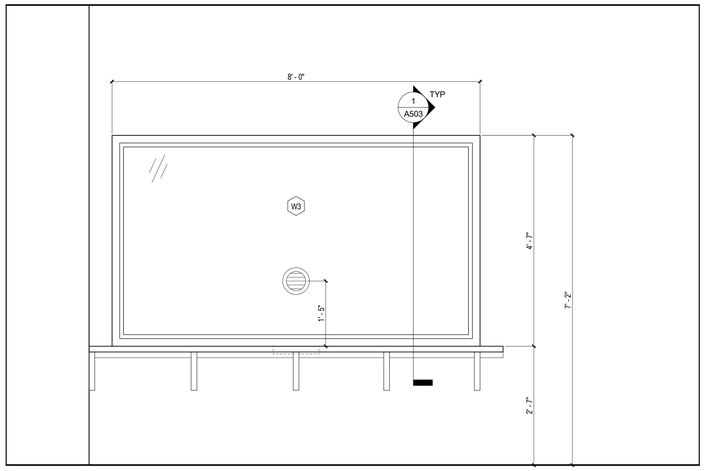
GL1 - 1/4" CLEAR TEMPERED GLASS

GL2 - 1" LOW-E COATED CLEAR INSULATED LAMINATED GLASS



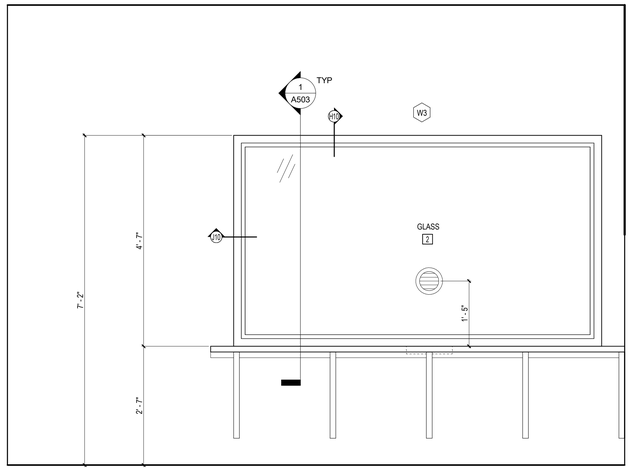
WINDOW ELEVATIONS

3/4" = 1'-0"



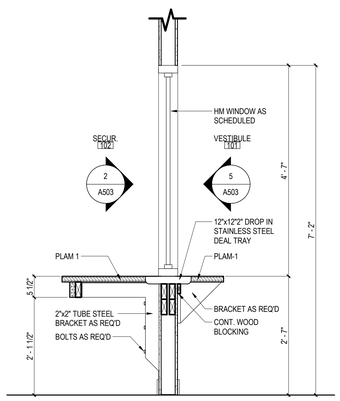
5 VESTIBULE COUNTER ELEVATION

3/4" = 1'-0"



2 SECUR. COUNTER ELEVATION

3/4" = 1'-0"



1 SECTION AT RECEPTION COUNTER

3/4" = 1'-0"

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4/30/2026
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: NFC

Project Number: TA# 24003

Sheet Title: WINDOW SCHEDULE, TYPES AND DETAILS

Sheet Number: A503

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH
101	VESTIBULE	EPOXY-1	RB-1	PT-2	GWB, PT-4
102	SECUR.	EPOXY-1	RB-1	PT-2	GWB, PT-4
103	UNIFORM	EPOXY-1	EB-1	PT-2	ACT-1
104	LOCK RM	EPOXY-1	RB-1	PT-2	GWB, PT-4
105	WOMENS	EPOXY-1	EB-1	CT-1 TO 8'-0", PT-2 ABOVE	GWB, PT-4
106	MENS	EPOXY-1	EB-1	CT-1 TO 8'-0", PT-2 ABOVE	GWB, PT-4
107	BREAK RM	LVT-1	RB-1	PT-2, PT-3	ACT-1
108	OPEN OFFICE	LVT-1	RB-1	PT-2	ACT-1
108A	OFFICE I.T.	EPOXY-1	EB-1	PT-2	ACT-1
108B	OFFICE	CPT-1	RB-1	PT-2	ACT-1
108C	OFFICE	CPT-1	RB-1	PT-2	ACT-1
108D	OFFICE	CPT-1	RB-1	PT-2	ACT-1
108E	OFFICE	CPT-1	RB-1	PT-2	ACT-1
108F	OFFICE	CPT-1	RB-1	PT-2	ACT-1
108G	CONFERENCE	CPT-1	RB-1	PT-2	ACT-1
108H	SPRINKLER ROOM	EPOXY-1	EB-1	INS-1	ACT-1
109	DRY ROOM STAGING	EPOXY-1	EB-1	INS-1	ACT-1
110	DRY RM 1	EPOXY-1	EB-1	INS-1	INS-1
111	DRY RM 2	EPOXY-1	EB-1	INS-1	INS-1
112	DRY RM 3	EPOXY-1	EB-1	INS-1	INS-1
113	TRIM ROOM	EPOXY-1	EB-1	INS-1	INS-1
114	PROCESS I.T.	EPOXY-1	EB-1	INS-1	INS-1
115	JAN	EPOXY-1	EB-1	INS-1	INS-1
116	ELECTRICAL	EPOXY-1	EB-1	INS-1	INS-1
117	QUALITY CONTROL	EPOXY-1	EB-1	INS-1	INS-1
118	GRIND AND TRIM EQUIPMENT ROOM	EPOXY-1	EB-1	INS-1	INS-1
119	WASH	EPOXY-1	EB-1	INS-1	INS-1
120	PRE TEST STORAGE	EPOXY-1	EB-1	INS-1	INS-1
121	POST TEST STORAGE	EPOXY-1	EB-1	INS-1	INS-1
122	WOMENS TOILET	EPOXY-1	EB-1	CT-1 TO 8'-0", PT-2 ABOVE	GWB, PT-4
123	MENS TOILET	EPOXY-1	EB-1	CT-1 TO 8'-0", PT-2 ABOVE	GWB, PT-4
124	PRE-ROLL	EPOXY-1	EB-1	INS-1	INS-1
125	CARTRIDGE FILL	EPOXY-1	EB-1	INS-1	INS-1
126	PACKAGING OFFICE	EPOXY-1	EB-1	INS-1	INS-1
127	PACKAGING	EPOXY-1	EB-1	INS-1	INS-1
128	DISTRIBUTION	EPOXY-1	EB-1	INS-1	INS-1
129A	COLD STORAGE	EPOXY-1	EB-1	INS-1	INS-1
129B	WIF	EPOXY-1	EB-1	INS-1	INS-1
129C	DIST. OFFICE	EPOXY-1	EB-1	INS-1	INS-1
129D	SECURE RM	EPOXY-1	EB-1	PT-2	GWB, PT-4
129E	FACILITIES SHOP	EPOXY-1	EB-1	PT-2	ACT-1
130	RECEIVING	EPOXY-1	EB-1	INS-1	EXPOSED
131	FERTIGATION	EPOXY-1	EB-1	INS-1	EXPOSED
132	MECH.	EPOXY-1	EB-1	INS-1	EXPOSED
133	ELEC.	EPOXY-1	EB-1	INS-1	EXPOSED
134	CULTIVATION OFFICE	EPOXY-1	EB-1	INS-1	INS-1
135	UNISEX RESTROOM	EPOXY-1	EB-1	INS-1	INS-1
136	JAN.	EPOXY-1	EB-1	INS-1	INS-1
137	CULTIVATION SUPPLIES	EPOXY-1	EB-1	INS-1	ACT-1
138	NURSERY	EPOXY-1	EB-1	INS-1	INS-1
139	VEG 1	EPOXY-1	EB-1	INS-1	INS-1
140	VEG 2	EPOXY-1	EB-1	INS-1	INS-1
141	FLOWER 3	EPOXY-1	EB-1	INS-1	INS-1
142	FLOWER 2	EPOXY-1	EB-1	INS-1	INS-1
143	FLOWER 1	EPOXY-1	EB-1	INS-1	INS-1
144	FLOWER 4	EPOXY-1	EB-1	INS-1	INS-1
145	FLOWER 5	EPOXY-1	EB-1	INS-1	INS-1
146	FLOWER 6	EPOXY-1	EB-1	INS-1	INS-1
147	FLOWER 9	EPOXY-1	EB-1	INS-1	INS-1
148	FLOWER 8	EPOXY-1	EB-1	INS-1	INS-1
149	FLOWER 7	EPOXY-1	EB-1	INS-1	INS-1
150	JAN	EPOXY-1	EB-1	INS-1	INS-1
C-01	CORRIDOR	EPOXY-1	EB-1	PT-2	ACT-1
C-02	CORRIDOR	EPOXY-1	EB-1	INS-1	ACT-1
C-03	CORRIDOR	EPOXY-1	EB-1	INS-1	ACT-1
C-04	CORRIDOR	EPOXY-1	EB-1	INS-1	ACT-1
C-05	CORRIDOR	EPOXY-1	EB-1	INS-1	ACT-1
C-06	CORRIDOR	EPOXY-1	EB-1	INS-1	ACT-1
C-07	CORRIDOR	EPOXY-1	EB-1	PT-2	ACT-1
S-01	MAINTENANCE STAIR	EPOXY-1	RB-1	PT-2	EXPOSED

FINISH DETAIL NOTES:

A. REFER TO FINISH SCHEDULE FOR MATERIAL LOCATIONS.

B. REFER TO FINISH FLOOR PLAN FOR TRANSITION STRIP AND WALL PANEL LOCATIONS.

C. ALL TRANSITION STRIPS SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS.

D. TRANSITION STRIP FINISH TO BE SELECTED BY ARCHITECT AND MAY VARY AT EACH LOCATION.

E. ALL WALL PROTECTION PANELS TO HAVE ASSOCIATED TRIM PIECES FROM MANUFACTURER TO MATCH PANELS IN COLOR AND FINISH.

F. REFER TO FINISH SCHEDULE FOR BASE LOCATIONS.

G. SIGNAGE TO BE ADA COMPLIANT. COORDINATE WITH OWNER FOR SIZES, INFORMATION AND LOCATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

H. TYPICAL ROOM SIGNAGE TO BE LOCATED AT EVERY DOOR. COORDINATE WITH OWNER FOR FINAL DESIGN AND LOCATIONS.

I. ALL DOORS AND DOOR FRAMES TO RECEIVE PT-1

J. ALL HM FRAMES TO RECEIVE PT-1

GENERAL FINISH NOTES:

A. REFERENCE REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND FINISHES.

B. FLOORING INSTALLATION - EVENLY DISTRIBUTE THROUGHOUT THE ROOM, STARTING WITH FULL SIZE TILES AT THE ENTRY U.N.O.

C. AREA SF IN FINISH SCHEDULE IS AN ESTIMATION. CONTRACTOR TO VERIFY.

D. WALLS WITH PEMB* METAL LINER PANEL SYSTEM ON THE INTERIOR ARE NOT TO BE PAINTED.

E. CONTRACTOR TO PROVIDE AND INSTALL MATERIALS BASED ON MANUFACTURER'S RECOMMENDATIONS. ALL SURFACES TO BE PREPARED PRIOR TO INSTALLATION OF FINISH MATERIALS PER MANUFACTURER RECOMMENDATIONS IN ORDER TO MAINTAIN PRODUCT WARRANTY.

F. PROVIDE TRANSITIONS AS REQ'D BETWEEN DIFFERENT FLOOR MATERIALS.

G. INSTALL ALL FLOOR AND BASE FINISHES UNDER ALL APPLIANCE AND CASEWORK LOCATIONS, TYP.

H. PROVIDE ROLLER TYPE WINDOW COVERING AT ALL WINDOWS IN EXTERIOR WALLS.

I. PROVIDE SEALANT AND JOINT PREP AT ALL JOINTS IN FLOORS SCHEDULED FOR EPOXY FINISH.

FINISH MATERIALS:

FLOOR:

EPOXY-1 MATERIAL: SELF LEVELING SEAMLESS FLOOR
MANUFACTURER: SHERWIN WILLIAMS
RESUFLOR GARD SL SYSTEM
COLOR: STEEL GRAY

LVT-1 MATERIAL: LUXURY VINYL TILE
MANUFACTURER: INTERFACE
COLLECTION: STUDIO SET
COLOR: TITANIUM A00705
SIZE: 25CM X 1M

CPT-1 MATERIAL: CARPET
MANUFACTURER: INTERFACE
COLLECTION: OPEN ROAD
STYLE: FREE REIGN
COLOR: CHARCOAL 108397
SIZE: 25CM X 1M

CEILING:

INS-1 MATERIAL: INSULATED METAL PANEL
MANUFACTURER: PERMATHERM
METAL TYPE: 26 GA GALVANIZED
PROFILE: CLASSIC SHADOW LINES
TEXTURE: SMOOTH
COLOR: POLAR WHITE

WALL:

PT-1 MATERIAL: PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: DEEP FOREST BROWN

PT-2 MATERIAL: PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: PURE WHITE

PT-3 MATERIAL: PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: JADE DRAGON

PT-4 MATERIAL: PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: CEILING BRIGHT WHITE

INS-1 MATERIAL: INSULATED METAL PANEL
MANUFACTURER: PERMATHERM
METAL TYPE: 26 GA GALVANIZED
PROFILE: CLASSIC SHADOW LINES
TEXTURE: SMOOTH
COLOR: POLAR WHITE

CT-1 MATERIAL: CERAMIC TILE 1
MANUFACTURER: DALTILE
COLLECTION: COLOR WHEEL
STYLE: LINEAR
COLOR: ARCTIC WHITE
SIZE: 8X24

G-1 MATERIAL: GROUT
MANUFACTURER: LATICRETE
COLOR: SMOKE GREY 89

BASE:

RB-1 MATERIAL: RUBBER BASE 1
MANUFACTURER: ROPPE
COLOR: 100 BLACK
STYLE: PINNACLE STANDARD TOE
SIZE: 6"

EB-1 MATERIAL: SEAMLESS WALL COATING
MANUFACTURER: SHERWIN WILLIAMS
RESUFLOR COVE REZ
COLOR: STEEL GRAY

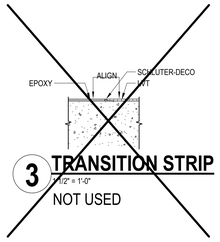
CASEWORK:

PLAM-1 MATERIAL: PLASTIC LAMINATE 1
MANUFACTURER: WILSONART
COLOR: NEWLANDS 8308K-17

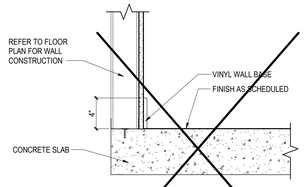
PLAM-2 MATERIAL: PLASTIC LAMINATE 2
MANUFACTURER: WILSONART
COLOR: PLATINUM D315-60

PLAM-3 MATERIAL: PLASTIC LAMINATE 3
MANUFACTURER: WILSONART
COLOR: FEATHER VELVET 1501-4

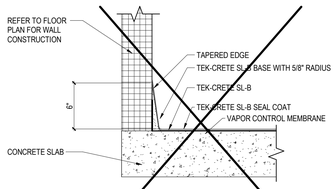
SS-1 MATERIAL: SOLID SURFACE 1
MANUFACTURER: CORIAN
COLOR: SILVER BIRCH



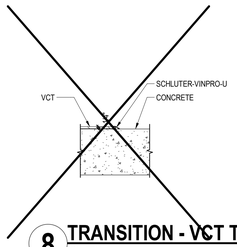
3 TRANSITION STRIP
1 1/2" = 1'-0"
NOT USED



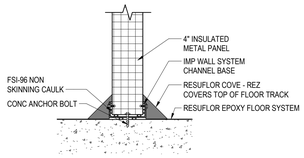
4 VINYL BASE FLOOR DETAIL AT STUD WALL
1 1/2" = 1'-0"
NOT USED



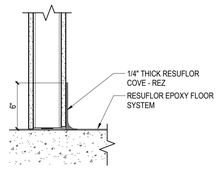
5 EPOXY COVE BASE DETAIL
1 1/2" = 1'-0"
NOT USED



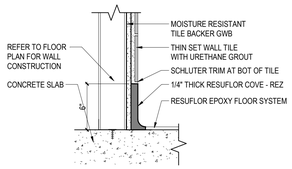
8 TRANSITION - VCT TO CONC
1 1/2" = 1'-0"
NOT USED



6 TYP METAL PANEL BASE DETAIL - EPOXY FLOOR & BASE
1 1/2" = 1'-0"



9 TYPICAL ROOMS W/ EPOXY FLOOR AT GWB WALLS DETAIL
1 1/2" = 1'-0"



7 TYPICAL ROOMS W/ EPOXY FLOOR & TILE WALLS
1 1/2" = 1'-0"

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REGISTERED ARCHITECT TIMOTHY MICHAEL MOSER 028216-1 STATE OF NEW YORK
4/30/2026
TRAUTMAN ASSOCIATES

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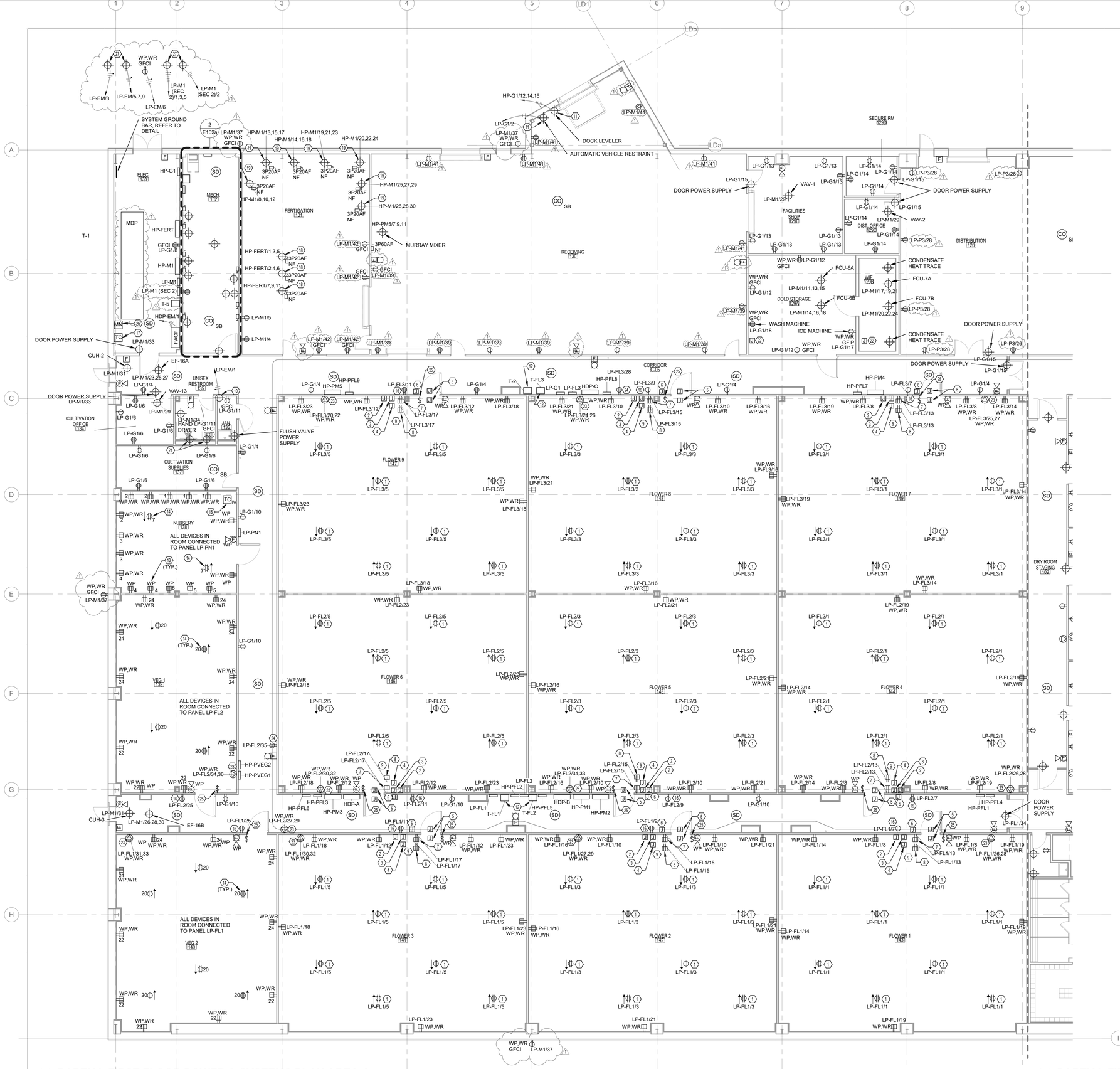
Project Address: 11580 WALDEN AVE
ALDEN, NY 14004

Drawing History:

#	Date	Description
1	01/09/26	PACKAGE 2 REV.

Date: 11/26/25
Project Number: TA# 24003
Sheet Title: ROOM FINISH SCHEDULE AND DETAILS

Sheet Number: A602


SYSTEM GROUND BAR, REFER TO DETAIL
DOCK LEVELER
AUTOMATIC VEHICLE RESTRAINT
DOOR POWER SUPPLY
MURRAY MIXER
FLUSH VALVE POWER SUPPLY
ALL DEVICES IN ROOM CONNECTED TO PANEL LP-PN1
ALL DEVICES IN ROOM CONNECTED TO PANEL LP-FL2
ALL DEVICES IN ROOM CONNECTED TO PANEL LP-FL1
CONDENSATE HEAT TRACE
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MECH 132
FERTIGATION 131
RECEIVING 130
FACILITIES SHOP 129E
DIST. OFFICE 129C
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CUH-2
CUH-3
PR-1B
PR-1A
B-1
P-1B
P-1A
R.O. SKID
LP-M1/33
LP-M1/31
LP-M1/6,8
LP-M1/3
LP-M1/32
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EF-16B
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LP-M1 (SEC 2)/2
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HP-PM2
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HP-FERT1
HP-FERT/1,3,5
HP-FERT/2,4,6
HP-FERT/7,9,11
HP-M1/8,10,12
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HP-M1
HP-M1/11,13,15
HP-M1/17,19,21
HP-M1/20,22,24
HP-M1/14,16,18
HP-M1/32,34,36
HP-M1/37,39,41
HP-M1/2,4,6
HP-M1/7,9,11
HP-M1/1
HP-M1/2
HP-M1/6,8
HP-M1/3
HP-M1/31
HP-M1/33
HP-M1/31,33
HP-M1/26,28,30
HP-M1/37
HP-M1/23,25,27
HP-M1/31
HP-M1/33
HP-M1/37
HP-M1/34
HP-M1/41
HP-M1/42
HP-M1/39
HP-M1/29

1 **PARTIAL FIRST FLOOR PLAN COMMUNICATIONS & SECURITY PLAN AREA-A**
1/8" = 1'-0"

GENERAL ELECTRICAL NOTES:

A. PROVIDE BRANCH CIRCUITING FOR ALL DEVICES SHOWN. BRANCH WIRING IS, IN GENERAL, NOT SHOWN WITH THE FOLLOWING UNDERSTANDING: THE CONTRACTOR SHALL "CIRCUIT UP" ALL DEVICES SHOWN IN THE MOST EFFECTIVE ROUTING, BASED ON CONSTRUCTION CONDITIONS AND/OR RESTRICTIONS.
B. THE USE OF EXPOSED RACEWAYS IN FINISHED AREAS IS NOT ACCEPTABLE UNLESS ALL OTHER METHODS OF RACEWAY CONCEALMENT HAVE BEEN EXHAUSTED. ALL CONDUIT/WIRE/CABLING SHALL BE RUN WITHIN THE CEILING AND WALL SPACES.
C. THE CONTRACTOR SHALL PERFORM ALL WORK TO THE 2017 EDITION OF THE NEC.
D. THE CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES, AND SHALL REVIEW TRADE DRAWINGS FOR COORDINATION PURPOSES.
E. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT WIRING SHALL BE #12 AWG MINIMUM
F. CIRCUIT NUMBERS ON THIS DRAWING ARE FOR THE SOLE PURPOSE OF CLARIFICATION, AND ARE NOT INTENDED TO INDICATE THE POLE POSITION IN THE PANELBOARD. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL CONNECT ALL DEVICES TO AVAILABLE CIRCUITS IN DESIGNATED PANELBOARDS. THE CONTRACTOR SHALL INDICATE THE CORRECT CIRCUIT DESIGNATIONS ON A TYPED PANELBOARD SCHEDULE AND ON "AS BUILT" DRAWINGS.

ELECTRICAL DRAWING NOTES (#):

1. PROVISION FOR ACCESS CONTROLS. COORDINATE REQUIREMENTS WITH ACCESS CONTROLS INSTALLER AND DOOR HARDWARE.
2. PRIVA ENVIRONMENTAL SENSOR CONNECTION. PROVIDE 1" CONDUIT BACK TO PROCESS I.T. ROOM. COORDINATE REQUIREMENTS WITH PRIVA INSTALLER.
3. 4"H x 8"W CABLE TRAY WITH WALL MOUNT BRACKETS. MOUNT TO IMP WALL PANEL ABOVE CORRIDOR CEILING. BASIS OF DESIGN: EATON FLEXTRAY FT4X8 AND FTB08CS

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10/31/2027
TRAUTMAN ASSOCIATES

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Client: 11580 Walden Ave LLC

Project: Alden Green House

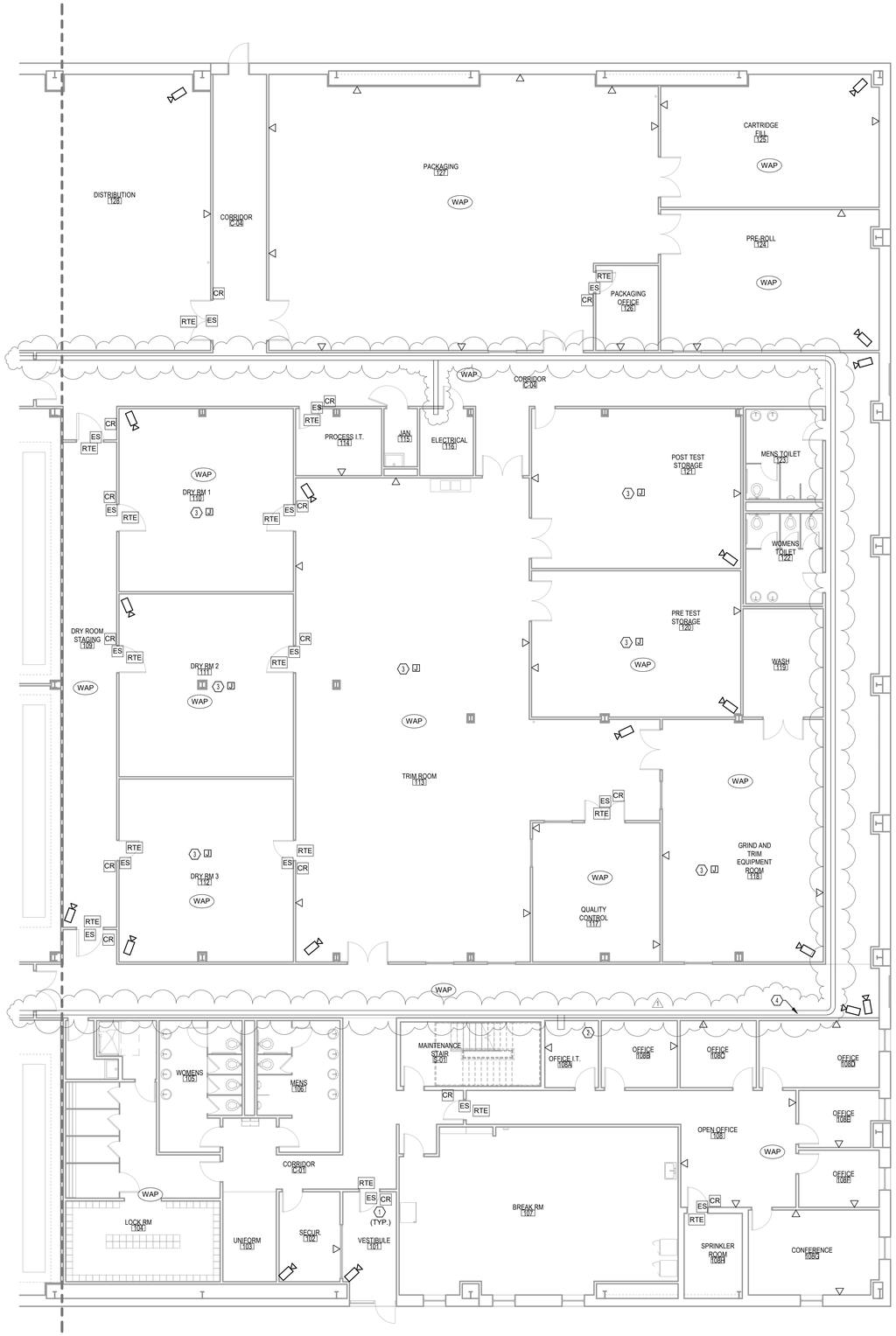
Project Address: 11580 Walden Ave

Drawing History:

#	Date	Description
1	1/9/2026	REVISIONS

Date: 11/26/2025
Project Number: 24003
Sheet Title: PARTIAL FIRST FLOOR COMMUNICATIONS & SECURITY PLAN AREA-A

Sheet Number: E103a



1 **PARTIAL FIRST FLOOR PLAN COMMUNICATIONS & SECURITY PLAN AREA-B**
1/8" = 1'-0"

GENERAL ELECTRICAL NOTES:

A. PROVIDE BRANCH CIRCUITING FOR ALL DEVICES SHOWN. BRANCH WIRING IS, IN GENERAL, NOT SHOWN WITH THE FOLLOWING UNDERSTANDING; THE CONTRACTOR SHALL "CIRCUIT UP" ALL DEVICES SHOWN IN THE MOST EFFECTIVE ROUTING, BASED ON CONSTRUCTION CONDITIONS AND/OR RESTRICTIONS.
B. THE USE OF EXPOSED RACEWAYS IN FINISHED AREAS IS NOT ACCEPTABLE UNLESS ALL OTHER METHODS OF RACEWAY CONCEALMENT HAVE BEEN EXHAUSTED. ALL CONDUIT/WIRE/CABLING SHALL BE RUN WITHIN THE CEILING AND WALL SPACES.
C. THE CONTRACTOR SHALL PERFORM ALL WORK TO THE 2017 EDITION OF THE NEC.
D. THE CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES, AND SHALL REVIEW TRADE DRAWINGS FOR COORDINATION PURPOSES.
E. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT WIRING SHALL BE #12 AWG MINIMUM
F. CIRCUIT NUMBERS ON THIS DRAWING ARE FOR THE SOLE PURPOSE OF CLARIFICATION, AND ARE NOT INTENDED TO INDICATE THE POLE POSITION IN THE PANELBOARD. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL CONNECT ALL DEVICES TO AVAILABLE CIRCUITS IN DESIGNATED PANELBOARDS. THE CONTRACTOR SHALL INDICATE THE CORRECT CIRCUIT DESIGNATIONS ON A TYPED PANELBOARD SCHEDULE AND ON "AS BUILT" DRAWINGS.

ELECTRICAL DRAWING NOTES ⓪:

1. PROVISION FOR ACCESS CONTROLS. COORDINATE REQUIREMENTS WITH ACCESS CONTROLS INSTALLER AND DOOR HARDWARE.
2. PROVIDE (4) 48-PORT PATCH PANELS IN OWNER SUPPLIED SERVER RACK.
3. PRIVA ENVIRONMENTAL SENSOR CONNECTION. PROVIDE 1" CONDUIT BACK TO PROCESS I.T. ROOM. COORDINATE REQUIREMENTS WITH PRIVA INSTALLER.
4. 4"H x 8"W CABLE TRAY WITH WALL MOUNT BRACKETS. MOUNT TO IMP WALL PANEL ABOVE CORRIDOR CEILING. BASIS OF DESIGN: EATON FLEXTRAY FT4X8 AND FTB08CS

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 Walden Ave

Drawing History:

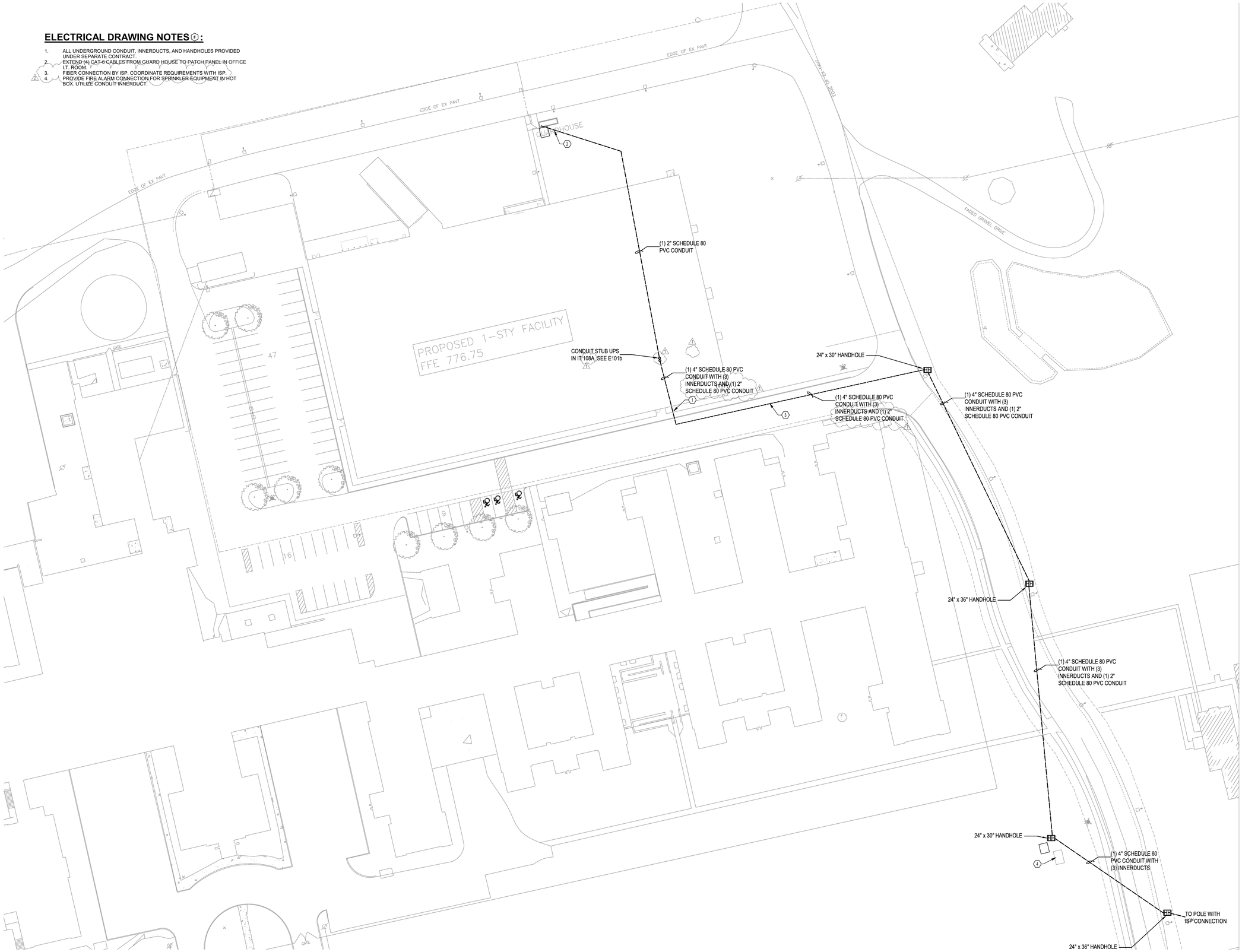
#	Date	Description
1	1/9/2026	REVISIONS

Date: 11/26/2025
Project Number: 24003
Sheet Title: PARTIAL FIRST FLOOR COMMUNICATIONS & SECURITY PLAN AREA-B

Sheet Number: E103b

ELECTRICAL DRAWING NOTES (E):

1. ALL UNDERGROUND CONDUIT, INNERDUCTS, AND HANDHOLES PROVIDED UNDER SEPARATE CONTRACT.
2. EXTEND (4) CAT-6 CABLES FROM GUARD HOUSE TO PATCH PANEL IN OFFICE I.T. ROOM.
3. FIBER CONNECTION BY ISP. COORDINATE REQUIREMENTS WITH ISP.
4. PROVIDE FIRE ALARM CONNECTION FOR SPRINKLER EQUIPMENT IN HOT BOX. UTILIZE CONDUIT INNERDUCT.



1 **ELECTRICAL SITE PLAN - COMMUNICATIONS**
1" = 30'-0"

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Client: 11580 Walden Ave LLC

Project: Alden Green House

Project Address: 11580 Walden Ave

Drawing History:

#	Date	Description
1	12/12/2025	REVISIONS
2	1/9/2026	REVISIONS

Date: 11/26/2025
Project Number: 24003
Sheet Title: ELECTRICAL SITE PLAN - COMMUNICATIONS CABLING

Sheet Number: E305

Hardware List

Mfg	Short Description	Product Number	Finish
BYOT	Hardware	by Door Mfr./Supplier	
	Weatherstrip	By Frame Mfr./Supplier	
	Reader/Keypad	By Security Provider	
	Wiring Diagrams	Wiring Diagrams	
GRIS	Door Position Switch(es)	184-12	BLK
HA	Hinge(s)	BB1168 4 1/2" x 4 1/2"	US26D
	Hinge(s)	BB1168 4 1/2" x 4 1/2" NRP	US26D
	Hinge(s)	BB1191 4 1/2" x 4 1/2"	US26D
	Hinge(s)	BB1279 4 1/2" x 4 1/2"	US26D
	Hinge(s)	BB1279 4 1/2" x 4 1/2" NRP	US26D
	Hinge(s)	BB1279 5" x 4 1/2" NRP	US26D
	Continuous Hinge(s)	780-111HD x LAR	CLR
	Continuous Hinge(s)	780-112HD x LAR EPT/PREP	DBA
	Manual Flush Bolt Set	282D	US26D
	Classroom Deadlock	3118 SFIC	US26D
	Privacy Set w/ Indicator	3896 SECT WTN ADA Turn	US32D
	Classroom Lockset	3470 WTN SFIC	US26D
	Electrified Lockset	3480ELEURX WTN SFIC	US26D
	Office Lockset	3450 WTN SFIC	US26D
	Passage Set	3410 WTN	US26D
	Storeroom Lockset	3480 WTN SFIC	US26D
	Exit Device	4501 CLB MLRX FEC	US32D
	Exit Device(s)	4501 CLB RX FEC	US32D
	Exit Device(s)	4501 CVR FEC	US32D
	Exit Device(s)	4501 RIM F MLRX FEC	US32D
	Exit Device(s)	4501 RIM FEC	US32D
	Exit Device(s)	4501 RIM MLRX FEC	US10B
	Exit Device(s)	4501 RIM MLRX FEC	US32D
	Night Latch Trim(s)	45NL WTN	US26D
	Cylinder Core(s)	3969-C	US26D
	Cylinder Core(s)	3969-C	US4
	Rim Cylinder(s)	3901 SFIC	US10B
	Rim Cylinder(s)	3901 SFIC	US26D
	Door Pull(s)	H 12L	DBZ
	Pull Plate	H 34L 4" x 16"	US32D
	Push Plate(s)	30S 8" x 16"	US32D
	Closer(s)	5200	ALM
	Closer(s)	5200	DBZ
	Closer(s)	5200 HDCS	ALM
	Closer(s)	5200 HDCS DLY	ALM
	Closer(s)	5200 TRK NHOTA	ALM
	Closer(s)	5200 TRK NHOTA DLY	ALM
	Drop Plate(s)	5922	DBZ
	Overhead Stop(s)	7016 SRF	US10B
	Overhead Stop/Holder(s)	7017 CON	US32D
	Armor Plate(s)	190S 36" x 1" LDW	US32D
	Armor Plate(s)	190S 36" x 2" LDW	US32D

Mfg	Short Description	Product Number	Finish
	Kick Plate(s)	190S 10" x 2" LDW	US32D
	Mop Plate(s)	190S 4" x 1" LDW	US32D
	Concave Wall Stop(s)	236W	US32D
	Convex Wall Stop(s)	232W	US32D
	Door Position Switch(es)	2-679-0626	
	Dust Proof Strike	280X	US26D
	Power Supply	2908/2909/2910/2911 As Required	No Finish
	Power Transfer(s)	2-679-0623	ALM
	Power Transfer(s)	2-679-0624	DBZ
	Astragal	874S N x LAR	MIL
	Meeting Stiles	872S N x LAR	CLR
	Rain Drip	810S x LAR	DBA
	Rain Drip	810S x LAR	MIL
	Seal	738 x LAR	S
	Weatherstrip	881S N x LAR	MIL
	Door Bottom(s)	779S N x LAR	MIL
	Sweep(s)	770S V x LAR	MIL
	Threshold	413S x LAR	MIL
	Threshold	421S x LAR	MIL
	Silencers	307D	GREY
PE	Threshold	273x224-10BE-FGT x LAR	

Opening List

Opening	Hdw Set	Opening Label	Door Type	Frame Type
C-03	28			

Cold Storage

Opening	Hdw Set	Opening Label	Door Type	Frame Type
129A	29			

Corridor C-04

Opening	Hdw Set	Opening Label	Door Type	Frame Type
1	01			

Cultivation Office

Opening	Hdw Set	Opening Label	Door Type	Frame Type
134	23			

Cultivation Supplies

Opening	Hdw Set	Opening Label	Door Type	Frame Type
137	27			

Distribution

Opening	Hdw Set	Opening Label	Door Type	Frame Type
3	01			
128B	22			
128C	22			
129B	29			

Facilities Shop

Opening	Hdw Set	Opening Label	Door Type	Frame Type
129E	23			

Flower 2

Opening	Hdw Set	Opening Label	Door Type	Frame Type
142	29			

Flower 4

Opening	Hdw Set	Opening Label	Door Type	Frame Type
144	29			

Flower 6

Opening	Hdw Set	Opening Label	Door Type	Frame Type
146	29			

Flower 8

Opening	Hdw Set	Opening Label	Door Type	Frame Type
148	29			

Locker Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
104A	05			

Main Entry

Opening	Hdw Set	Opening Label	Door Type	Frame Type
10	AL-01			

Men's RR

Opening	Hdw Set	Opening Label	Door Type	Frame Type
106	05			

Men's Toilet

Opening	Hdw Set	Opening Label	Door Type	Frame Type
123	05			

Nursery

Opening	Hdw Set	Opening Label	Door Type	Frame Type
138	29			

Office Entry

Opening	Hdw Set	Opening Label	Door Type	Frame Type
108	08			

Office IT

Opening	Hdw Set	Opening Label	Door Type	Frame Type
108A	09			

Packaging Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
127A	15			

Opening	Hdw Set	Opening Label	Door Type	Frame Type
127B	15			

Post Test Storage

Opening	Hdw Set	Opening Label	Door Type	Frame Type
121	15			
120A	18			

Receiving

Opening	Hdw Set	Opening Label	Door Type	Frame Type
5	01			
130A	24			
130C	24			

Secure Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
129D	23			

Shower

Opening	Hdw Set	Opening Label	Door Type	Frame Type
104B	06			

Trim Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
113A	15			
113B	16			

Veg 2

Opening	Hdw Set	Opening Label	Door Type	Frame Type
140	29			

Women's RR

Opening	Hdw Set	Opening Label	Door Type	Frame Type
105	05			

Women's Toilet

Opening	Hdw Set	Opening Label	Door Type	Frame Type
122	05			

Corridor C-05

Opening	Hdw Set	Opening Label	Door Type	Frame Type
8	01			

Corridor C-07

Opening	Hdw Set	Opening Label	Door Type	Frame Type
9	01			

Ext Electrical Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
7	02			

Vestibule Entry

Opening	Hdw Set	Opening Label	Door Type	Frame Type
101	03			

Security

Opening	Hdw Set	Opening Label	Door Type	Frame Type
102	04			

Breakroom

Opening	Hdw Set	Opening Label	Door Type	Frame Type
107	07			

Conference Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
108G	10			

Office

Opening	Hdw Set	Opening Label	Door Type	Frame Type
108B	09			
108C	09			
108D	09			
108E	09			
108F	09			

Sprinkler Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
108H	11			

Dry Staging Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
109A	12			
109B	12			

Dry Room 1

Opening	Hdw Set	Opening Label	Door Type	Frame Type
110A	13			
110B	13			

Dry Room 2

Opening	Hdw Set	Opening Label	Door Type	Frame Type
111A	13			
111B	13			

Dry Room 3

Opening	Hdw Set	Opening Label	Door Type	Frame Type
112A	14			
112B	14			

Process IT

Opening	Hdw Set	Opening Label	Door Type	Frame Type
114	08			

Quality Control Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
117	17			

Grind and Trim Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
118	16			

Wash Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
119	16			

Pre Test Storage

Opening	Hdw Set	Opening Label	Door Type	Frame Type
120	15			

Cartridge Fill

Opening	Hdw Set	Opening Label	Door Type	Frame Type
125	15			

Electrical Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
116	20			
133	26	60Min		

Pre-Roll

Opening	Hdw Set	Opening Label	Door Type	Frame Type
124	15			

Packaging Office

Opening	Hdw Set	Opening Label	Door Type	Frame Type
126	21			

Distribution Office

Opening	Hdw Set	Opening Label	Door Type	Frame Type
129C	23			

Fertigation Room

Opening	Hdw Set	Opening Label	Door Type	Frame Type
131A	24			
131B	24			

Restroom

Opening	Hdw Set	Opening Label	Door Type	Frame Type
135	06			

Corridor

Opening	Hdw Set	Opening Label	Door Type	Frame Type
C-02	28			

Janitor Closet

Opening	Hdw Set	Opening Label	Door Type	Frame Type
115	19			
136	19			
150	27			

Mechanical

Opening	Hdw Set	Opening Label	Door Type	Frame Type
132	25			

Overhead Door

Opening	Hdw Set	Opening Label	Door Type	Frame Type
2	29			
4	29			
6	29			
129F	29			
130B	29			
131C	29			

Veg 1

Opening	Hdw Set	Opening Label	Door Type	Frame Type
139	29			

Flower 3

Opening	Hdw Set	Opening Label	Door Type	Frame Type
141	29			

Flower 1

Opening	Hdw Set	Opening Label	Door Type	Frame Type
143	29			

Flower 5

Opening	Hdw Set	Opening Label	Door Type	Frame Type
145	29			

Flower 7

Opening	Hdw Set	Opening Label	Door Type	Frame Type
147	29			
149	29			

Stair

Opening	Hdw Set	Opening Label	Door Type	Frame Type
S-01	27			

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes hardware for doors specified in “Hardware Sets”.

B. Related Divisions:
1. Division 03 Concrete
2. Division 06 Rough & Finish Carpentry
3. Division 07 Joint Sealants
4. Division 08 Openings
5. Division 09 Finishes
6. Division 10 Specialties
7. Division 13 Special Construction
8. Division 14 Elevators
9. Division 25 Integrated Automation
10. Division 26 Electrical
11. Division 27 Communications
12. Division 28 Electronic Safety and Security

1.02 REFERENCES

A. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):
1. ANSI/BHMA A156.1 Butts & Hinges (2016)
2. ANSI/BHMA A156.2 Bored & Preassembled Locks & Latches (2017)
3. ANSI/BHMA A156.3 Exit Devices (2020)
4. ANSI/BHMA A156.4 Door Controls – Closers (2019)
5. ANSI/BHMA A156.5 Cylinders and Input Devices for Locks (2020)
6. ANSI/BHMA A156.6 Architectural Door Trim (2015)
7. ANSI/BHMA A156.7 Template Hinge Dimensions (2016)
8. ANSI/BHMA A156.8 Door Controls – Overhead Stops and Holders (2015)
9. ANSI/BHMA A156.13 Mortise Locks & Latches (2017)
10. ANSI/BHMA A156.16 Auxiliary Hardware (2018)
11. ANSI/BHMA A156.18 Materials & Finishes (2020)
12. ANSI/BHMA A156.21 Thresholds (2019)
13. ANSI/BHMA A156.22 Door Gasketing Systems (2017)
14. ANSI/BHMA A156.25 Electrified Locks (2018)
15. ANSI/BHMA A156.26 Continuous Hinges (2017)
16. ANSI/BHMA A156.28 Keying Systems (2018)
17. ANSI/BHMA A156.33 Internally Powered Architectural Hardware Devices (2019)
18. ANSI/BHMA A156.35 Power Supplies for Electronic Access Control (2020)
19. ANSI/BHMA A156.36 Auxiliary Locks (2020)

B. International Code Council/American National Standards Institute (ICC/ANSI)/ADA:
1. ICC/ANSI A117.1 Standards for Accessible and Usable Buildings and Facilities.

C. Door and Hardware Institute (DHI):
1. DHI Publication – Abbreviations and Symbols (2019).
2. DHI Publication – Installation Guide for Doors and Hardware (2020).
3. DHI Publication – Sequence and Format of Hardware Schedule (2019).

D. National Fire Protection Agency (NFPA):
1. NFPA 70 National Electrical Code.
2. NFPA 80 Standard for Fire Doors and Other Opening Protectives.
3. NFPA 105 Standard for the Installation of Smoke Door Assemblies.

1.03 SUBMITTALS

A. Submit in accordance with Conditions of the Contract and Division 01 Administrative Requirements and Submittal Procedures Section.

B. Shop Drawings:
   1. Schedule hardware in vertical format using the DHI publication Sequence and Formatting for the Hardware Schedule.
   2. Include abbreviations and symbols page to include manufacturers' abbreviations, finish code descriptions, and fastener abbreviations including descriptions according to the DHI publication Abbreviations and Symbols.
   3. Detail headings referencing the Architect's heading, opening number, locations, fire rating, handing, degree of opening, and description of the opening elements. Include Voltage, amperage, and operational descriptions for openings that have electrified hardware.
   4. Coordinate final door hardware schedule with doors, frames, and related work listing proper sizing of hardware, addressing door thickness, handing, function, mounting accessories, and finish of hardware.
   5. List related door devices specified in other Sections for each opening.
   6. Architectural Hardware Consultant (AHC), as certified by DHI, who will affix seal attesting to completeness and correctness, including the review of the hardware schedule prior to submittal.

C. Product Data:
   1. Furnish manufacturers' catalog sheets on design, grade, and function of items listed in hardware schedule. Submit only relevant information and circle or highlight the technical information including: model numbers, sizing information, voltage and amperage requirements, options and accessories required, means of fastening, listings of fire-rated applications, and finishes.

E. Templates:
   1. Within fourteen days of receiving approved door hardware submittals submit complete list of templates for each hardware item to the opening manufacturers and the installers. Include detailed lists of the hardware location requirements for mortised and surface applied hardware.

F. Wiring Diagrams: Detail a title block for each drawing that includes the project name, project address, architect name, architect's opening number, hardware set, date, and name of the author.
   1. Elevation Riser Drawings:
      a. Furnish one set of elevation drawings with each hardware schedule submittal for hardware sets that contain electrified hardware. Illustrate the openings with proportional representations of the opening and electrified hardware components and dimension their mounting locations as well as sizes of junction boxes and power supplies. Label the components, wire quantities and gauges, high voltage requirements, as well as other building interfaces. Create a legend that complements the drawings with brand names, model numbers, and include voltage and amperage requirements. Add an operational description that includes the normal state of the door, ingress, egress, and what happens in case of power loss or fire alarm activation and any special conditions.
      b. Upon receipt of approved hardware correct and resubmit elevation drawings with the point-to-point and system drawings.
   2. Point-to-Point and System Drawings: Upon receipt of approved hardware schedule, submit point-to-point per hardware set and a system drawing. Cross-reference all wiring diagrams and the associated drawings to each other.
      a. Point-to-Point Drawings: Draw each product in a realistic representation including each terminal including those not used, and lines representing wires from component to component, labeling wire colors and gauges.
      b. System Drawing: illustrate all equipment and building interfaces required for the entire system. Include room labels and locations, opening numbers and locations.

G. Closeout Submittals: Include the following information as well as highlight and flag fire rated openings for annual inspections:
   1. Cover page with required information:
      a. Project name
      b. Hardware supplier's name and contact information.
      c. Date of substantial completion.
   2. Final record hardware schedule.
   3. Product Data.

4. Keying Schedule.
5. Record Wiring Diagrams.
   a. System Drawing.
   b. Elevations.
   c. Point-to-Point Drawings with all final wire colors noted as terminated. (Include network IP and/or MAC addresses of field devices).
6. Operating and Maintenance Manual.
7. Warranty Information.
8. Maintenance service agreement(s).

1.04 QUALITY ASSURANCE

A. Hardware supplier shall employ an Architectural Hardware Consultant (AHC) as certified by DHI and a member of the seal program who will be available at reasonable times during course of work for Project hardware consultation.
   1. Electrified Door Hardware Supplier Qualifications: Experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that is indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
   2. Access and Electrified Security Supplier Qualifications: Experienced supplier who has completed projects with access and electrified security door hardware similar in material, design, and extent to that is indicated for this Project, whose work has resulted in construction with a record of successful in-service performance and be a factory authorized distributor.

B. Where openings are required to be accessible door hardware shall conform to ICC/ANSI A117.1.

C. Fire Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware complying with NFPA 80 that are listed and/or labeled by a qualified testing agency for fire-protection ratings indicated.

D. Smoke and Draft Control Door Assemblies: Where smoke and draft control doors are required, provide door hardware that meets requirements of assemblies in compliance with NFPA 105.

E. Door hardware certified to ANSI/BHMA standards as noted, manufacturer must participate and be listed in BHMA Certified Products Directory.

F. Substitution requests shall be submitted in compliance with Division 01: create a comparison chart that includes the testing information as well as the warranty for both the specified product and the proposed substitution. Include the reason for requesting the substitution, clear catalog copy highlighting the proposed product and options, compliance statement, technical data, product warranty and lead time, to show how the proposed can meet or exceed established level of design, function, and quality.
   1. Items listed with no substitute manufacturers have been requested by the Owner to meet existing standard and will not be reviewed for substitution unless the product is no longer available.

G. Meetings: Comply with requirements in Division 01 Section “Project Meetings.”
   1. Low-voltage Coordination Meeting
      a. Prior to furnishing door hardware submittals, convene a low-voltage coordination meeting. Meeting participants should include all affected trades including the following, but not limited to: Contractor, installer, supplier, electrical contractor, security consultant and installer, Owner’s IT representative, and fire alarm consultant.
      b. Review sequence of operation for each opening with electrified hardware to ensure that every opening functions properly for the Owner’s use.
      c. Discuss the types of electrified door hardware, inspection, and electrical roughing-in and other preparatory work performed by other trades.
      d. Verify wire quantities, wire types, wire sizes, conduit sizes, and locations including if the power supplies will be centrally located or if they will be located near each opening.
      e. Coordinate the door hardware, power supplies, back-up power requirements, access control components, fire alarm interfaces, elevator controls, and related building systems have all proper and necessary components to interface and operate correctly.
   2. Keying Meeting

a. Within fourteen days of receiving approved door hardware submittals, contact Owner to establish a keying conference. Include keying meeting decisions into final keying schedule submittal after reviewing the following, but not limited to:
   ii. Function of the building, flow of traffic, individual area's purpose, and degree of security.
   iii. Lock functions and operation.
   iv. Preliminary key system schematic diagram.
   v. Verify existing keyway(s), and/or proposed keyway(s)
   vi. Visual key and cylinder identification
   vii. Quantity of keys required including master level keys, change keys, and keys per lock.
   viii. Review the key control system.
   ix. Determine the recipient and contact information for the delivery of keys and accessories.

3. Pre-installation Meeting
   a. Convene meeting within fourteen days of receiving approved door hardware submittals. Participants from all affected buildings trades shall attend. Minimum participants should include: Contractor, installer, material supplier, manufacturer representatives, electrical contractor, security consultant, and fire alarm consultant.
   b. Inspect and discuss preparatory work performed by other trades.
   c. Include in-conference decisions regarding proper installation methods and procedures for receiving and handling hardware.
   d. Review all system, elevation, and point-to-point drawings to ensure that all necessary components are provided and detailed.
   e. Review and finalize construction schedule and verify availability of materials, installer's personnel, equipment, and facilities needed to make progress and avoid delays.
   f. Review required testing, inspecting, and certifying procedures.

H. Installer Qualifications: Specialized in performing installation of this Section and have five years minimum documented experience.
   1. Electrified Hardware Supplier Qualifications: Experienced door hardware installer who has installed projects with electrified door hardware similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
   2. Access Control and Electrified Security Supplier Qualifications: Experienced installer who has completed projects with access and electrified security door hardware similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance and be a factory authorized to install and commission the system.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Pack each item complete with necessary parts and fasteners in manufacturer's original packaging.

B. Mark hardware that is not bulk packed with architect's opening number, hardware set number, and item number for each type of hardware. Include keyset symbols and corresponding hardware component for keyed products. Mark hardware that is bulk packed with manufacturers' part number and reference all hardware sets associated.

C. Deliver hardware to the job site according to the phasing agreed upon in the pre-installation meeting. Inventory the delivery with the supplier's assistance. Immediately note shortages and damages on the shipping receipts and bill of ladings. Coordinate replacement or repair with the supplier.

D. Deliver permanent keys, cores, access control credentials, software, and related accessories directly to Owner via registered mail or overnight package service. Establish the instructions for delivery to Owner at "Keying Conference."

E. Provide a clean, dry, and secure room for hardware delivered. Shelve hardware off the floor and with larger items of hardware stored on pallets. Arrange locksets and keyed cylinders by opening number. Organize the balance of hardware by brand, model of hardware, and hardware set number. Leave the door markings of the hardware visible for installers.

F. Waste Management and Disposal: Separate waste materials for use or recycling in accordance with Division 01.

1.06 WARRANTY

A. General Warranty: Comply Division 01 for Warranty requirements.

B. Special Warranty: Warranties specified in this article will not deprive Owner of other rights.
   1. Ten years for manual door closers.
   2. Five years for locks.
   3. Five years for exit devices.
   4. One year for electromechanical door hardware.
   5. All access and electrified security equipment and systems will be warranted for a period of one (1) year commencing with the filing date of the Notice of Completion, provided the system has been inspected and signed off by a factory authorized installer and the factory authorized commissioning agent.

1.07 MAINTENANCE

A. Maintenance Tool and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Owner's continued adjustment, maintenance, removal, and replacement of door hardware.

PART 2 – PRODUCTS

2.01 HINGES

A. Hinges, electric hinges, and self-closing hinges of one manufacturer as listed for continuity of design and consideration of warranty.

B. Standards: Products to be certified and listed by the following:
   1. Butts and Hinges: ANSI/BHMA A156.1.
   2. Template Hinge Dimensions: ANSI/BHMA A156.7.
   3. Self-Closing Hinges: ANSI/BHMA A156.17.

C. Butt Hinges:
   1. Hinge weight and size unless otherwise indicated in hardware sets:
      a. Doors up to 36" wide and up to 1-3/4" thick provide hinges with a minimum thickness of .134" and a minimum of 4-1/2" in height.
      b. Doors from 36" wide up to 42" wide and up to 1-3/4" thick provide hinges with a minimum thickness of .145" and a minimum of 4-1/2" in height.
      c. For doors from 42" wide up to 48" wide and up to 1-3/4" thick provide hinges with a minimum thickness of .180" and a minimum of 5" in height.
      d. Doors greater than 1-3/4" thick provide hinges with a minimum thickness of .180" and a minimum of 5" in height.
      e. Width of hinge is to be minimum required to clear surrounding trim.
   2. Base material unless otherwise indicated in hardware sets:
      a. Exterior Doors: 304 Stainless Steel, Brass or Bronze material.
      b. Interior Doors: Steel material.
      c. Fire Rated Doors: Steel or 304 Stainless Steel materials.
      d. Stainless Steel ball bearing hinges to have stainless steel ball bearings. Steel ball bearings are unacceptable.
   3. Quantity of hinges per door unless otherwise stated in hardware sets:
      a. Doors up to 60" in height provide 2 hinges.
      b. Doors 60" up to 90" in height provide 3 hinges.
      c. Doors 90" up to 120" in height provide 4 hinges.
      d. Doors over 120" in height add 1 additional hinge per each additional 30" in height.
      e. Dutch doors provide 4 hinges.
   4. Hinge design and options unless otherwise indicated in hardware sets:
      a. Hinges are to be of a square corner five-knuckle design, flat button tips and have ball bearings unless otherwise indicated in hardware sets.
      b. Out-swinging exterior and out-swinging access-controlled doors are required to have Non-Removable Pins (NRP) to prevent removal of pin while door is in closed position.

c. When full width of opening is required, use hinges that are designed to swing door completely from opening when door is opened to 95 degrees.
d. When shims are necessary to correct frame or door irregularities, provide metal shims only.

5. Acceptable Manufacturers:

Hager
Bommer
McKinney

2.02 CONTINUOUS HINGES

A. Continuous hinges of one manufacturer as listed for continuity of design and consideration of warranty.

B. Standards: Products to be certified and listed by ANSI/BHMA A156.26 Grade 1.

C. Continuous Geared Hinges:
1. Determine model number by door and frame application, door thickness, frequency of use, and fire rating requirements according to manufacturer's recommendations.
a. Size length of hinge to equal the actual door height unless otherwise stated in hardware sets.

D. Material and Design:
1. Base material: Anodized aluminum manufactured from 6063-T6 material; unexposed working metal surfaces be coated with TFE dry lubricant.
2. Bearings:
a. Vertical loads be carried on Lubriloy RL bearings for non-fire rated doors.
b. Continuous hinges are to have a minimum spacing between bearings of 2-9/16". Typical door from 80" to 84" in height to have a minimum of 32 bearings.
3. Options:
a. Provide factory-cut preparations for concealed electric power tranfers.
b. When full width of opening is required, use hinges that are designed to swing door completely from opening when door is opened to 95 degrees.
c. At fire rated openings provide hinges that carry a UL certification, up to and including 90-minute applications for wood doors and up to 3-hour applications for metal doors.

E. Acceptable Manufacturers:

Hager
Bommer
Zero

2.03 FLUSH BOLTS AND COORDINATORS

A. Flush bolts of one manufacturer as listed for continuity of design and consideration of warranty.

B. Standards: Manufacturer to be listed by the following: Auxiliary Hardware: ANSI/BHMI A156.16.

C. Labeled openings: Provide automatic or constant latching flush bolts per hardware schedule for inactive leaf of pairs of doors. Provide dust proof strikes for bottom bolt.

D. Non-Labeled openings: Provide two flush bolts for inactive leaf of pairs of doors per hardware schedule. Provide extension rods so that the center line of the top flush bolt is not more than 78" above the finish floor. Provide dust proof strike from bottom bolt.

E. Acceptable Manufacturers:

Hager
Rockwood
Trimco

2.04 LOCKS AND LATCHES

A. Locks and latches of one manufacturer as listed for continuity of design and consideration of warranty.

B. Standards: Product to be certified and listed by following:
   1. ANSI/BHMA A156.2 Series 4000 Certified to Grade 1.
   2. ANSI/BHMA A250.13 Certified for a minimum design load of 1150 Ibf (100 psf) for single out-swinging doors measuring 36” in width and 84” in height and a minimum design load of 1150lbf (70psf) for out-swinging single doors measuring 48” in width and 84” in height.
   3. UL/cUL Labeled and listed for functions up to 3 hours for single doors up to 48” in width and up to 96” in height.
   4. UL10C/UBC 7-2 Positive Pressure Rated.
   5. ICC/ANSI A1117.1

C. Lock and latch function numbers and descriptions of manufacturer’s series as listed in hardware sets.

D. Material and Design:
   1. Lock and latch chassis to be zinc dichromate for corrosion resistance.
   2. Keyed functions to be of a freewheeling design to help resist against vandalism.
   3. Non-handed, field reversible.
   4. Thru-bolt mounting with no exposed screws.
   5. Levers, zinc cast and plated to match finished designation in hardware sets.
   6. Roses wrought brass or stainless-steel material.

E. Latch and Strike:
   1. Stainless Steel latch bolt with minimum of 1/2” throw and deadlocking for keyed and exterior functions. Provide 3/4” latch bolt for pairs of fire-rated doors where required by door manufacturer. Standard backset to be 2-3/4” and adjustable faceplate to accommodate a square edge door or a standard 1/8” beveled edge door.
   2. Strike is to fit a standard ANSI A115 prep measuring 1-1/4” x 4-7/8” with proper lip length to protect surrounding trim.

F. Options:
   1. Provide knurled levers on entry side of doors that are potentially dangerous to visually impaired persons.

G. Electric Locks:
   1. Fail-Secure (power unlocks lever) outside trim is locked when there is no power and unlocked when power is applied. Lockset will be locked in the event of a power failure (EU).
   2. Request to Exit: Monitors inside lever rotation (RX).

H. Acceptable manufacturers:

Hager
Schlage
Best

2.05 LOCKS AND LATCHES

A. Locks and latches of one manufacturer as listed for continuity of design and consideration of warranty.

B. Standards: Product to be certified and listed by following:
   1. ANSI/BHMA A156.13 Series 1000 Certified to Grade 1 for Operational and Security.
   2. UL/cUL Labeled and listed up to 3 hours for single doors up to 48” in width and up to 96” in height.
   3. UL10C/UBC 7-2 Positive Pressure Rated.
   4. ICC/ANSI A117.1.

C. Lock and latch function numbers and descriptions of manufacturer’s series as listed in hardware sets.

D. Material and Design:

1. Lock cases from fully wrapped, 12-gauge steel, zinc dichromate for corrosion resistance.
2. Non-handed, field reversible without opening lock case.
3. Break-away spindles to prevent unlocking during forced entry or vandalism.
4. Levers, zinc cast, forged brass or stainless steel and plated to match finish designation in hardware sets.
5. Sectional Roses, solid brass or stainless-steel material and have a minimum diameter of 2-7/16".
6. Armor fronts, self-adjusting to accommodate a square edge door or a standard 1/8" beveled edge door.

E. Latch and Strike:
1. Stainless steel latch bolt with minimum of 3/4" throw and deadlocking for keyed and exterior functions.
2. Strike is to fit a standard ANSI A115 prep measuring 1-1/4" x 4-7/8" with proper lip length to protect surrounding trim.
3. Deadbolts to be 1-3/4" total length with a minimum of a 1" throw and 3/4" internal engagement when fully extended and made of stainless-steel material.

F. Options:
1. Provide knurled levers on entry side of doors that are potentially dangerous to visually impaired persons.

G. Acceptable Manufacturers:

Hager
Best
Sargent

2.06 DEADBOLTS (GRADE 1)

A. Deadbolts of one manufacturer as listed for continuity of design and consideration of warranty.

B. Standards: Manufacturer to be certified by the following:
1. Auxiliary Locks: ANSI/BHMA A156.5 Grade 1.
2. UL/cUL listed for functions up to 3 hours for "A" label.
3. UL10C/UBC 7-2 Positive Pressure Rated.
4. ANSI A250.13 Serve Windstorm Resistant Component.

C. Deadbolt function numbers and descriptions of manufacturer's series as listed in hardware sets.

D. Material and Design:
1. Latch bolt 1" throw, brass material with concealed hardened steel roller to prevent sawing or cutting.
2. Freewheeling collar design to help resist against vandalism.
3. Non-handed, field reversible.

E. Acceptable Manufacturers:

Hager
Best
Sargent

2.07 EXIT DEVICES

A. Exit Devices of one manufacturer as listed for continuity of design and consideration of warranty. Touchpad type, finish to match balance of door hardware.

B. Standards: Manufacturer to be certified and/or listed by the following:
1. BHMA Certified ANSI A156.3 Grade 1.
2. UL/cUL Listed for up to 3 hours for "A" labeled doors.
3. UL10C/UBC 7-2 Positive Pressure Rated.
4. UL10B Neutral Pressure Rated.
5. UL 305 Listed for Panic Hardware.

C. Material and Design:

1. Provide exit devices with actuators that extend a minimum of one-half of door width.
2. Where trim is indicated in hardware sets provide the lever design to match design of lock levers.
3. Exit device to mount flush with door.
4. Latchbolts:
   a. Rim device – 3/4" throw, Pullman type with automatic dead-latching, stainless steel
   b. Surface vertical rod device – Top 1/2" throw, Pullman type with automatic dead-latching, stainless steel. Bottom 1/2" throw, Pullman type, held retracted during door swing, stainless steel.
5. Fasteners: Wood screws, machine screws, and thru-bolts.

D. Lock and Latch Functions: Function numbers and descriptions of manufacturer's series and lever styles indicated in door hardware sets.

E. Acceptable Manufactures:

Hager
Von Duprin
Sargent

F. Electric Modifications:
1. Motorized Latch Retraction (MLR): An electric motor retracts the latch bolt for momentary or maintained periods of time.
2. Provide Request to Exit (REX) switches as scheduled.

2.08 CYLINDERS AND KEYING

A. Cylinders of one manufacturer as listed for continuity of design and consideration of warranty.

B. Products to be certified and listed by the following:
1. Auxiliary Locks: ANSI/BHMA A156.5

C. Cylinders:
1. Provide cylinders matched to the types required for hardware that has a locking function and for keyed electronic functions. Furnish with appropriate collars, cams, and tailpieces to fit and operate associated hardware. Stacking collars is not acceptable, a single collar of proper size is required.
2. Manufacturer's standard tumbler type, seven-pin IC core and seven-pin conventional core supported by the Hager H series keyway.
3. Manufacturer's standard tumbler type six-pin conventional cylinder.
4. Manufacturer's six-pin seven-pin small format interchangeable core (SFIC).
5. Provide concealed key control (CKC) at cylinder by stamping or permanently marking the keyset symbol in a location on the cylinder that is concealed when installed.

D. Keying:
1. Provide a new factory registered key system.
2. Provide a bitting list to Owner of combinations as established, and expand to twenty-five percent for future use or as directed by Owner.
   a. Include all of the keysets and bittings of the original key system creating one clean version of the entire key system.
3. Keys to be shipped directly to the Owner's Representative as established during the keying conference.
   a. Package the keys in individual envelopes, grouped by keyset symbol, and label envelopes with project name, factory registry number, and keyset symbol.
4. Stamp large bow key blanks with visual key control (keyset symbol) and "Do Not Duplicate".
5. Provide interchangeable cores with construction cores as required per the keying meeting.
6. Provide construction keyed cylinders as required per the keying meeting.
7. Single seven-pin key will operate both conventional cores and SFIC small format interchangeable cores. (Hager H series keyway)

E. Acceptable Manufacturers:

Hager
Schlage
Sargent

2.09 PUSH/PULL PLATES AND BARS

A. Push/Pull plates and bars of one manufacturer as listed for continuity of design and consideration of warranty.

B. Standards: Manufacturer to be certified by the following:
1. Architectural Door Trim: ANSI/BHMA A156.6.
2. Americans with Disabilities Act Accessibility Guidelines (ADAAG).

C. Push plates: .050” thick, square corner and beveled edges with countersunk screw holes. Width and height as stated in hardware sets.

D. Acceptable Manufacturers:

Hager
Rockwood
Trimco

E. Pull Plates: .050” thick, square corner and beveled edges. Width and height as stated in hardware sets, 3/4” diameter pull, with clearance of 3” from face of door.

F. Acceptable Manufacturers:

Hager
Rockwood
Trimco

G. Pull Bar Sets: 1” round bar stock with 3” clearances from face of door.

H. Acceptable Manufacturers:

Hager
Rockwood
Trimco

2.10 CLOSERS

A. Closers of one manufacturer as listed for continuity of design and consideration of warranty. Unless otherwise indicated on hardware schedule, comply with manufacturer’s recommendations for size of closer, depending on width of door, frequency of use, atmospheric pressure, ADAAG requirements, and fire rating.

B. Standards: Manufacturer to be certified by the following:
1. BHMA Certified ANSI A156.4 Grade 1.
2. ADA Complaint ANSI A117.1.
3. UL/cUL Listed up to 3 hours.
4. UL10C Positive Pressure Rated.
5. UL10B Neutral Pressure Rated.

C. Material and Design:
1. Provide aluminum non-handed bodies with full plastic covers.
2. Closers will have separate staked adjustable valve screws for latch speed, sweep speed, and backcheck.
3. Provide Tri-Pack arms and brackets for regular arm, top jamb, and parallel arm mounting.
4. Double heat-treated steel, tempered springs.
5. Precision machined heat-treated steel piston.
6. Triple heat-treated steel spindle.

7. Full rack and pinion operation.

D. Mounting:
1. Out-swing doors surface parallel arm mount closers except where noted on hardware schedule.
2. In-swing doors surface regular arm mount closers except where noted on hardware schedule.
3. Provide brackets and shoe supports for aluminum doors and frames to mount fifth screw.
4. Furnish drop plates where top rail conditions on door do not allow for mounting of closer and where backside of closer is exposed through glass.

E. Size closers in compliance with requirements for accessibility (ADAAG). Comply with following maximum opening force requirements.
1. Interior hinged openings: 5.0 lbs.
2. Fire-rated and exterior openings are to be adjusted to have minimum opening force allowable by authority having jurisdiction.

F. Fasteners: Provide self-reaming, self-tapping wood and machine screws, and sex nuts and bolts for each closer.

G. Acceptable manufacturers:

Hager
Norton
Sargent

2.11 PROTECTIVE TRIM

A. Protective trim of one manufacturer as listed for continuity of design and consideration of warranty.

B. Size of protection plate: single doors, size two inches less door width (LDW) on push side of door, and one inch less door width on pull side of door. For pairs of doors, size one inch less door width (LDW) on push side of door, and 1/2 inch on pull side of door. Adjust sizes to accommodate accompanying hardware, such as, edge guards, astragals, and others.
1. Kick Plates 10” high or sized to door bottom rail height.
2. Mop Plates 4” high.
3. Armor Plates 36” high.

C. Products to be certified and listed by the following:
1. Architectural Door Trim: ANSI/BHMA A156.6.
2. UL.

D. Material and Design:
1. 0.050” gage stainless steel.
2. Corner’s square, polishing lines, or dominant direction of surface pattern so they run across door width of plate.
3. Bevel top, bottom, and sides uniformly leaving no sharp edges.
4. Countersink holes for screws. Space screw holes so they are no more than eight inches CTC, along a centerline not over 1/2” in from edge around plate. End screws maximum of 0.53” from corners.

E. UL label stamp required on protection plates when top of plate is more than 16 inches above bottom of door on fire rated openings. Verify door manufacturer’s UL listing for maximum height and width of protection plate to be used.

F. Acceptable Manufacturers:

Hager
Trimco
Burns

2.12 STOPS AND HOLDERS

A. Stops and holders of one manufacturer as listed for continuity of design and consideration of warranty.

B. Wall Stops: Provide door stops wherever necessary to prevent door or hardware from striking an adjacent partition or obstruction. Provide wall stops when possible. Door stops and holders mounted in concrete floor or masonry walls have stainless steel machine screws and lead expansion shields.

C. Products to be certified and listed by the following:
   1. Auxiliary Hardware: ANSI/BHMA A156.16.

D. Acceptable Manufacturers:

Hager
Rockwood
Burns

E. Overhead Stops and Holders: Provide overhead stops and holders for doors that open against equipment, casework sidelights and other objects that would make wall stops/holders and floor stops/holders inappropriate. Provide sex bolt attachments for mineral core wood door applications.

F. Products to be certified and listed by the following:
   1. Overhead Stops and Holders: ANSI/BHMA A156.8 Grade 1.

G. Acceptable Manufacturers:

Hager
Glynn Johnson
Sargent

2.13 POWER TRANSFER

A. Power transfer of one manufacturer as listed for continuity of design and consideration of warranty.

B. Products to be certified and listed by the following:
   1. UL Listed Miscellaneous Fire Door Accessories.
   2. UL 10C Listed for up to 3 hours on fire-rated doors and frames.
   3. Classified according to Uniform Building Code (UBC) Standard 7-2, Fire Test of Door Assemblies (1997).

C. Design:
   1. Stainless steel tubular wire transfer and cast housing with steel back boxes to provide weather and tamper resistance when door is open or closed.
   2. Mortise door and frame installation
   3. Two 18 ga wires, 5 amps @ 12/24 VAC/DC.

D. Acceptable Manufacturers:

Hager
SDC

2.14 MODULAR ACCESS CONTROL POWER SUPPLIES

A. Power supplies of one manufacturer as listed for continuity of design and consideration of warranty.

B. Products to be certified and listed by the following:
   1. UL Listed.

C. Design:
   1. Use with modular access control systems.
   2. Field selectable filtered and regulated 12 VDC or 24 VDC constant voltage.
   3. 1-, 2-, 4-, and 6-AMP load capacities. Match the power supply amperage to the total load of the opening /system plus an additional thirty percent to cover line drop, as well as possible expansion.
   4. Circuit breaker protected AC input voltage; secondary output PTC protected.

5. Fire alarm input provides simultaneous release of fail-safe locks and holders.
6. Interface relay.
7. LED status indicators provide information regarding AC input, DC output, and battery backup status.
8. Separate inputs for activation switch on entry and egress and ingress side of opening.
9. 5-amp hour battery backup.
10. Input 115 VAC (230 VAC optional).
11. Optional dual 12 VDC or 24 VDC output.
12. Optional power supply monitor module to monitor power supply status, A/C power, and D/C output and battery Status

D. Include optional modules as required to properly interface, control, and sequence the hardware with the access control system.

E. Acceptable Manufacturer:

Hager

2.15 THRESHOLDS

A. Thresholds of one manufacturer as listed for continuity of design and consideration of warranty.

B. Set thresholds for exterior and acoustical openings in full bed of sealant with lead expansion shields and stainless-steel machine screws complying with requirements specified in Division 7 Section “Joint Sealants: Notched in field to fit frame by hardware installer. Refer to Drawings for special details.

C. Standards: Manufacturer to be certified by the following:
1. Thresholds: ANSI/BHMA A156.21.
2. American with Disabilities Act Accessibility Guidelines (ADAAG).

D. Acceptable Manufacturers:

Hager
Pemko
Reese

2.16 DOOR GASKETING AND WEATHERSTRIP

A. Door gasketing and weatherstrip of one manufacturer as listed for continuity of design and consideration of warranty.

B. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing where indicated on hardware schedule. Provide noncorrosive fasteners for exterior applications.
1. Perimeter gasketing: Apply to head and jamb, forming seal between door and frame.
2. Meeting stile gasketing: Fasten to meeting stiles, forming seal when doors are in closed position.
3. Door bottoms: Apply to bottom of door, forming seal with threshold or floor when door is in closed position.
4. Sound Gasketing: Cutting or notching for stop mounted hardware not permitted.
5. Drip Guard: Apply to exterior face of frame header. Lip length to extend 4” beyond width of door.

C. Products to be certified and listed by the following:
1. Door Gasketing and Edge Seal Systems: ANSI/BHMA A156.22.
2. BHMA certified for door sweeps, automatic door bottoms, and adhesive applied gasketing.

D. Smoke-Labeled Gasketing: Comply with NFPA 105 listed, labeled, and acceptable to Authorities Having Jurisdiction, for smoke control indicated.
1. Provide smoke-labeled gasketing on 20-minute rated doors and on smoke rated doors.

E. Fire-Rated Gasketing: Comply with NFPA 80 listed, labeled, and acceptable to Authorities Having Jurisdiction, for fire ratings indicated.

F. Refer to Section 08 1416 Wood Doors for Category A or Category B. Comply with UBC 7-2 and UL10C positive pressure where frame applied intumescent seals are required.

G. Acceptable Manufacturers:

Hager
K.N. Crowder
Reese

2.17 DOOR POSITION SWITCHES

A. Provide door position switches for openings that require door monitoring.

B. Acceptable Manufacturers:

Non-Rated
Fire Rated

2.18 SILENCERS

A. Where smoke, light, or weather seal are not required, provide three silencers per single door frame, two per double door frame and four per Dutch door frame.

B. Products to be certified and listed by the following:
1. Auxiliary Hardware: ANSI/BHMA A156.16

C. Acceptable Manufacturers:

Hager
Rockwood
Trimco

2.19 KEY CABINET

A. Provide key cabinet; surface mounted to wall.

B. Key control system:
1. Include two sets of key tags, hooks, labels, and envelopes.
2. Contain system in metal cabinet with baked enamel finish.
3. Capacity will be able to hold actual quantities of keys, plus 50 percent.
4. Provide tools, instruction sheets, and accessories required to complete installation.

C. Acceptable Manufacturers:

Lund Equipment
Telkee Incorporated
Key Control

2.20 FINISHES

A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if within range of approved samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within range of approved samples.

B. Comply with base material and finish requirements indicated by ANSI/BHMA A156.18 designations in hardware schedule.

PART 3 – EXECUTION

3.01 EXAMINATION

A. Examine doors and frames, with installers present, for compliance with requirements for installation tolerances, labeled fire-rated construction, wall and floor construction, and other conditions affecting performance.

B. Where hardware will be installed directly on walls inspect applications for blocking material of sufficient type and size for hardware.

C. Examine roughing-in and cabling for electrical power systems to verify actual locations of wiring connections and wiring supplied matches the requirements as described in the wiring diagrams before electrified door hardware installation.

D. Perform a site survey to determine proper mounting locations for all wirelessly communicating devices. Verify that the surrounding construction and equipment will not interfere with the communication between components.

E. Notify Architect via a prepared written report and endorsed by installer of any discrepancies between the door schedule, door types, drawings, and scheduled hardware. List conditions detrimental to application, to the proper and timely completion of the work and performance of the hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.02 INSTALLATION

A. Install hardware using manufacturers' recommended fasteners and installation instructions, at height locations and clearance tolerances that comply with:
   1. NFPA 80
   2. NFPA 105
   3. ICC/ANSI A117.1
   4. DHI Publication – Installation Guide for Doors and Hardware
   5. Approved shop drawings
   6. Approved hardware schedule

B. Install soffit mounted gaskets prior to other soffit mounted hardware ensuring a continuous seal around the perimeter of the opening without cutting or notching.

C. Locate surface mounted door closers on stairwell side of stair doors, interior side of exterior openings, or on the room side of openings, unless it is a sterile room.

D. Locate wall mounted bumper to contact the operating trim. Verify that pushbuttons of locksets do not contact the stop and inadvertently lock the door.

E. Mount armor, mop, and kick plates flush with the bottom of the door and centered horizontally on the door.

F. Notch thresholds with no larger than a 1/32-inch gap matching the frame profile. Set in a full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants" forming a tight seal between threshold and mounting surface. Caulk and seal the entire perimeter to prevent water leakage. Remove excess sealants immediately and clean the area thoroughly.

G. Do not install surface mounted items until finishes have been completed on substrates involved. Set unit level, plumb and true to line location.

H. Locate power supplies and junction boxes as directed and verified in the low-voltage coordination meeting.

I. Perform final connections of the system components to match the approved operational narratives. Use cable markers to label wires at each termination or end to match the final wiring diagrams. Terminate wiring in accordance with the manufacturer's recommendations. Where quick-connects are seated correctly. Provide wire ties and adhesive pads to secure and organize wires in enclosures. Outside of enclosures seal terminations in waterproof connectors. Include record drawings of the point-point and the elevations in a plastic sleeve attached to the inside cover of the power supply/junction box enclosure for the Owner's use.

3.03 FIELD QUALITY CONTROL

A. Schedule a final walk through to inspect hardware installation ten (10) business days before final acceptance of the Owner. Visually inspect for proper fasteners and verify that doors open, close, latch properly, and that openings are installed to meet NFPA 80 and ANSI A117.1 requirements. Correct deficiencies, including missing hardware immediately. Provide a written report detailing discrepancies of each opening within five (5) business days of the walk through.

B. Prior to receiving certificate of occupancy have doors inspected by a Certified Fire and Egress Door Assembly Inspector (CFDAI), as certified by Intertek (ITS), submit a written report to the Owner and Contractor. Doors failing inspection must be adjusted, modified, or replaced to be within appropriate code requirements without delay.

C. Test the functionality of electrified openings upon completion of the installation in accordance with the description of operation and the Owner's intent under the supervision of a factory authorized representative and an Owner's representative, verify that all features of the software are working correctly, including interfaces with any associated trades. Document the result of all tests and provide these results to the Owner and correct immediately.

3.04 ADJUSTMENT, CLEANING, AND DEMONSTRATING

A. Prior to final adjustments, the HVAC system must be completed and balanced. Test that all openings meet ANSI A117.1 for closer opening pressure, closing speed, latching, and hardware operating forces. Replace items that cannot be adjusted to operate freely and smoothly or as intended for application.

B. Prior to final walk-through inspection, clean adjacent surfaces soiled by hardware installation. Clean finish hardware per manufacturer's instructions after final adjustments have been made. Remove all protection and replace items that cannot be cleaned to manufacturer's level of finish quality.

C. Demonstration and training will be conducted as per the following sessions. All sessions will be recorded and turned over to the Owner for future use.
   1. Hardware Maintenance: Conduct a training class for building maintenance personnel demonstrating the adjustment, operation, and maintenance of mechanical and electrified hardware. Special tools for finish hardware to be turned over and demonstrated usage at the meeting.
   2. Key control system: Train the Owner's designated representative on the key control system demonstrating the permanent file keys, duplicate loaner keys, key receipts, key envelopes, key change identification sheets, bitting lists, tags, and labels. When key management software is provided training will be provided for the setup and usage of the software.
   3. Access control: Demonstrate the management and programming of the access control system including the following, but not limited to:
      a. System administration personnel to manage the LAN and databases including updating, maintaining, and backing up the system and database software.
      b. Instruct on all software features and programming for managing the credentials, users, access points, time zones, alarms and events, door monitoring, audit trails, and time schedules.

3.05 PROTECTION

A. Leave manufacturer's protective film intact and, protect exit devices, locks, and surface mounted hardware with kraft paper or bubble wrap. Cover fire labels at painted products that bear a label with magnetic or masking tape. Keep protection in place until time of final cleaning and adjustment.

3.06 HARDWARE SET SCHEDULE

A. Door hardware items have been placed in sets which are intended to be a guide of design, grade, quality, function, operation, and performance.
   1. Review products that may require mounting accessories to meet door, frame, and swing conditions as these final details vary from manufacturer to manufacturer and provide as required.
   2. Where additional items of hardware are required for completion of the Work, a written statement of such omission, error, or other discrepancy is required to be submitted to the Architect, prior to bid date for clarification via an addendum.
   3. Abbreviations listed below do not appear in the manufacturer's literature, for any other abbreviations refer to

manufacturer's literature.:

a. LDW = Less than Door Width
b. LAR = Length as Required
c. QTY = Quantity
d. CTC = Centerline to Centerline
e. BTB = Back-to-Back mounting

3.07 HARDWARE SCHEDULE

Finish List

Code	Description
ALM	Sprayed Aluminum
BLK	Black
CLR	Clear Anodized
DBA	Dark Bronze Anodized Aluminum
DBZ	Painted Dark Bronze
GREY	Grey
MIL	Mill Finish
No Finish	No finish
S	Charcoal
US10B	Dull Bronze, Oxidized and Oil Rubbed
US26D	Chromium Plated, Dull
US32D	Stainless Steel, Dull
US4	Dull Brass

Manufacturer List

Code	Name
	By Others
GRIS	George Risk Industries, Inc
HA	Hager
PE	Pemko

Hardware Sets

Set #01

Doors: 1, 3, 5, 8, 9

1	Continuous Hinge(s)	780-111HD x LAR	CLR	HA
1	Exit Device(s)	4501 RIM FEC	US32D	HA
1	Night Latch Trim(s)	45NL WTN	US26D	HA
1	Rim Cylinder(s)	3901 SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 HDCS	ALM	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
1	Threshold	421S x LAR	MIL	HA
1	Weatherstrip	881S N x LAR	MIL	HA
1	Sweep(s)	770S V x LAR	MIL	HA
1	Rain Drip	810S x LAR	MIL	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door is monitored by access control system.

Set #02

Doors: 7

2	Continuous Hinge(s)	780-111HD x LAR	CLR	HA
2	Exit Device(s)	4501 CVR FEC	US32D	HA
1	Night Latch Trim(s)	45NL WTN	US26D	HA
1	Rim Cylinder(s)	3901 SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
2	Closer(s)	5200 HDCS	ALM	HA
2	Armor Plate(s)	190S 36" x 1" LDW	US32D	HA
1	Threshold	421S x LAR	MIL	HA
1	Weatherstrip	881S N x LAR	MIL	HA
2	Meeting Stiles	872S N x LAR	CLR	HA
2	Sweep(s)	770S V x LAR	MIL	HA
1	Rain Drip	810S x LAR	MIL	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door is monitored by access control system.

Set #03

Doors: 101

3	Hinge(s)	BB1168 4 1/2" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Exit Device(s)	4501 RIM MLRX FEC	US32D	HA
1	Night Latch Trim(s)	45NL WTN	US26D	HA
1	Rim Cylinder(s)	3901 SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 HDCS	ALM	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
3	Silencers	307D	GREY	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Set #04

Doors: 102

3	Hinge(s)	BB1279 4 1/2" x 4 1/2"	US26D	HA
1	Office Lockset	3450 WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 x Reg Arm	ALM	HA
1	Concave Wall Stop(s)	236W	US32D	HA
3	Silencers	307D	GREY	HA

Set #05

Doors: 104A, 105, 106, 122, 123

3	Hinge(s)	BB1168 4 1/2" x 4 1/2"	US26D	HA
1	Pull Plate	H 34L 4" x 16"	US32D	HA
1	Push Plate(s)	30S 8" x 16"	US32D	HA
1	Closer(s)	5200 TRK NHOTA	ALM	HA
1	Mop Plate(s)	190S 4" x 1" LDW	US32D	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
3	Silencers	307D	GREY	HA

Set #06

Doors: 104B, 135

3	Hinge(s)	BB1191 4 1/2" x 4 1/2"	US26D	HA
1	Privacy Set w/ Indicator	3896 SECT WTN ADA Turn	US32D	HA
1	Closer(s)	5200	ALM	HA
1	Mop Plate(s)	190S 4" x 1" LDW	US32D	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
1	Convex Wall Stop(s)	232W	US32D	HA
3	Silencers	307D	GREY	HA

Set #07

Doors: 107

3	Hinge(s)	BB1168 4 1/2" x 4 1/2"	US26D	HA
1	Passage Set	3410 WTN	US26D	HA
1	Closer(s)	5200	ALM	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
1	Convex Wall Stop(s)	232W	US32D	HA
3	Silencers	307D	GREY	HA

Set #08

Doors: 108, 114

3	Hinge(s)	BB1168 4 1/2" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Electrified Lockset	3480ELEURX WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200	ALM	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
3	Silencers	307D	GREY	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, door will remain locked.
Door is monitored by access control system.

Set #09

Doors: 108A, 108B, 108C, 108D, 108E, 108F

3	Hinge(s)	BB1279 4 1/2" x 4 1/2"	US26D	HA
1	Office Lockset	3450 WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Concave Wall Stop(s)	236W	US32D	HA
3	Silencers	307D	GREY	HA

Set #10

Doors: 108G

3	Hinge(s)	BB1279 4 1/2" x 4 1/2"	US26D	HA
1	Classroom Lockset	3470 WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Convex Wall Stop(s)	232W	US32D	HA
3	Silencers	307D	GREY	HA

Set #11

Doors: 108H

3	Hinge(s)	BB1279 4 1/2" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Electrified Lockset	3480ELEURX WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 HDCS	ALM	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
3	Silencers	307D	GREY	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, door will remain locked.
Door is monitored by access control system.

Set #12

Doors: 109A, 109B

3	Hinge(s)	BB1279 5" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Electrified Lockset	3480ELEURX WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 HDCS DLY	ALM	HA
1	Armor Plate(s)	190S 36" x 2" LDW	US32D	HA
3	Silencers	307D	GREY	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, door will remain locked.
Door is monitored by access control system.

Set #13

Doors: 110A, 110B, 111A, 111B

3	Hinge(s)	BB1279 5" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Electrified Lockset	3480ELEURX WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 TRK NHOTA DLY	ALM	HA
1	Armor Plate(s)	190S 36" x 2" LDW	US32D	HA
1	Threshold	413S x LAR	MIL	HA
1	Seal	738 x LAR	S	HA
1	Door Bottom(s)	779S N x LAR	MIL	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, door will remain locked.
Door is monitored by access control system.

Set #14

Doors: 112A, 112B

3	Hinge(s)	BB1279 4 1/2" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Electrified Lockset	3480ELEURX WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 TRK NHOTA DLY	ALM	HA
1	Armor Plate(s)	190S 36" x 2" LDW	US32D	HA
1	Seal	738 x LAR	S	HA
1	Door Bottom(s)	779S N x LAR	MIL	HA
1	Threshold	413S x LAR	MIL	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, door will remain locked.
Door is monitored by access control system.

Set #15

Doors: 113A, 120, 121, 124, 125, 127A, 127B

6	Hinge(s)	BB1168 4 1/2" x 4 1/2"	US26D	HA
1	Manual Flush Bolt Set	282D	US26D	HA
1	Dust Proof Strike	280X	US26D	HA
1	Classroom Deadlock	3118 SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
2	Pull Plate	H 34L 4" x 16"	US32D	HA
2	Push Plate(s)	30S 8" x 16"	US32D	HA
2	Closer(s)	5200 TRK NHOTA DLY	ALM	HA
2	Armor Plate(s)	190S 36" x 1" LDW	US32D	HA
2	Silencers	307D	GREY	HA

Set #16

Doors: 113B, 118, 119

6	Hinge(s)	BB1168 4 1/2" x 4 1/2" NRP	US26D	HA
1	Manual Flush Bolt Set	282D	US26D	HA
1	Dust Proof Strike	280X	US26D	HA
1	Classroom Deadlock	3118 SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
2	Pull Plate	H 34L 4" x 16"	US32D	HA
2	Push Plate(s)	30S 8" x 16"	US32D	HA
2	Closer(s)	5200 HDCS DLY	ALM	HA
2	Armor Plate(s)	190S 36" x 1" LDW	US32D	HA
2	Silencers	307D	GREY	HA

Set #17

Doors: 117

6	Hinge(s)	BB1279 4 1/2" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Manual Flush Bolt Set	282D	US26D	HA
1	Dust Proof Strike	280X	US26D	HA
1	Electrified Lockset	3480ELEURX WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Overhead Stop/Holder(s)	7017 CON	US32D	HA
1	Closer(s)	5200 HDCS	ALM	HA
2	Armor Plate(s)	190S 36" x 1" LDW	US32D	HA
2	Silencers	307D	GREY	HA
1	Astragal	874S N x LAR	MIL	HA
2	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Doors normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, doors will remain locked.
Doors are monitored by access control system.

Set #18

Doors: 120A

3	Hinge(s)	BB1279 4 1/2" x 4 1/2"	US26D	HA
1	Classroom Lockset	3470 WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200	ALM	HA
1	Armor Plate(s)	190S 36" x 1" LDW	US32D	HA
1	Convex Wall Stop(s)	232W	US32D	HA
3	Silencers	307D	GREY	HA

Set #19

Doors: 115, 136

3	Hinge(s)	BB1279 4 1/2" x 4 1/2" NRP	US26D	HA
1	Storeroom Lockset	3480 WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200	ALM	HA
1	Armor Plate(s)	190S 36" x 2" LDW	US32D	HA
1	Convex Wall Stop(s)	232W	US32D	HA
3	Silencers	307D	GREY	HA

Set #20

Doors: 116

3	Hinge(s)	BB1279 4 1/2" x 4 1/2" NRP	US26D	HA
1	Storeroom Lockset	3480 WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 HDCS	ALM	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
3	Silencers	307D	GREY	HA

Set #21

Doors: 126

3	Hinge(s)	BB1279 4 1/2" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Electrified Lockset	3480ELEURX WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 TRK NHOTA	ALM	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
3	Silencers	307D	GREY	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, door will remain locked.
Door is monitored by access control system.

Set #22

Doors: 128B, 128C

6	Hinge(s)	BB1279 4 1/2" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Manual Flush Bolt Set	282D	US26D	HA
1	Dust Proof Strike	280X	US26D	HA
1	Electrified Lockset	3480ELEURX WTN SFIC	US26D	HA
1	Overhead Stop/Holder(s)	7017 CON	US32D	HA
1	Closer(s)	5200 TRK NHOTA DLY	ALM	HA
2	Armor Plate(s)	190S 36" x 1" LDW	US32D	HA
2	Silencers	307D	GREY	HA
2	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Doors normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, doors will remain locked.
Doors are monitored by access control system.

Set #23

Doors: 129C, 129D, 129E, 134

3	Hinge(s)	BB1279 4 1/2" x 4 1/2"	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Electrified Lockset	3480ELEURX WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200	ALM	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
1	Convex Wall Stop(s)	232W	US32D	HA
3	Silencers	307D	GREY	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, door will remain locked.
Door is monitored by access control system.

Set #24

Doors: 130A, 130C, 131A, 131B

3	Hinge(s)	BB1168 4 1/2" x 4 1/2"	US26D	HA
1	Classroom Lockset	3470 WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 TRK NHOTA DLY	ALM	HA
1	Armor Plate(s)	190S 36" x 2" LDW	US32D	HA
3	Silencers	307D	GREY	HA

Set #25

Doors: 132

3	Hinge(s)	BB1279 5" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Electrified Lockset	3480ELEURX WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200	ALM	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
1	Convex Wall Stop(s)	232W	US32D	HA
3	Silencers	307D	GREY	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, door will remain locked.
Door is monitored by access control system.

Set #26

Doors: 133

3	Hinge(s)	BB1279 5" x 4 1/2" NRP	US26D	HA
1	Power Transfer(s)	2-679-0623	ALM	HA
1	Exit Device(s)	4501 RIM F MLRX FEC	US32D	HA
1	Night Latch Trim(s)	45NL WTN	US26D	HA
1	Rim Cylinder(s)	3901 SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200 HDCS	ALM	HA
1	Kick Plate(s)	190S 10" x 2" LDW	US32D	HA
1	Seal	738 x LAR	S	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Set #26

Operational Description:

Door normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, door will remain locked.
Door is monitored by access control system.

Set #27

Doors: 137, 150, S-01

3	Hinge(s)	BB1279 4 1/2" x 4 1/2"	US26D	HA
1	Storeroom Lockset	3480 WTN SFIC	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
1	Closer(s)	5200	ALM	HA
1	Armor Plate(s)	190S 36" x 2" LDW	US32D	HA
1	Convex Wall Stop(s)	232W	US32D	HA
3	Silencers	307D	GREY	HA

Set #28

Doors: C-02, C-03

6	Hinge(s)	BB1168 4 1/2" x 4 1/2" NRP	US26D	HA
2	Power Transfer(s)	2-679-0623	ALM	HA
1	Exit Device(s)	4501 CLB RX FEC	US32D	HA
1	Exit Device	4501 CLB MLRX FEC	US32D	HA
1	Night Latch Trim(s)	45NL WTN	US26D	HA
1	Cylinder Core(s)	3969-C	US26D	HA
2	Closer(s)	5200 HDCS	ALM	HA
2	Armor Plate(s)	190S 36" x 1" LDW	US32D	HA
2	Silencers	307D	GREY	HA
1	Door Position Switch(es)	2-679-0626		HA
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Doors normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, doors will remain locked.
Doors are monitored by access control system.

Set #29

Doors: 129A, 129B, 129F, 130B, 131C, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 2, 4, 6

1	Hardware	by Door Mfr./Supplier

Set #AL-01

Doors: 10

1	Continuous Hinge(s)	780-112HD x LAR EPT/PREP	DBA	HA
1	Power Transfer(s)	2-679-0624	DBZ	HA
1	Exit Device(s)	4501 RIM MLRX FEC	US10B	HA
1	Rim Cylinder(s)	3901 SFIC	US10B	HA
1	Cylinder Core(s)	3969-C	US4	HA
1	Door Pull(s)	H 12L	DBZ	HA
1	Overhead Stop(s)	7016 SRF	US10B	HA
1	Drop Plate(s)	5922	DBZ	HA
1	Closer(s)	5200 x TJ	DBZ	HA
1	Threshold	273x224-10BE-FGT x LAR		PE
1	Weatherstrip	By Frame Mfr./Supplier		
1	Rain Drip	810S x LAR	DBA	HA
1	Door Position Switch(es)	184-12	BLK	GRIS
1	Reader/Keypad	By Security Provider		
1	Power Supply	2908/2909/2910/2911 As Required	No Finish	HA
1	Wiring Diagrams	Wiring Diagrams		

Operational Description:

Door normally closed and locked.
Valid credential allows entry.
Free egress at all times.
Upon loss of power, door will remain locked.
Door is monitored by access control system.

SECTION 260513 - MEDIUM-VOLTAGE CABLES

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. Section includes cables and related cable splices, terminations, and accessories for medium-voltage (2001 to 35,000 V) electrical distribution systems.

1.3 DEFINITIONS

A. Jacket: A continuous nonmetallic outer covering for conductors or cables.

B. NETA ATS: Acceptance Testing Specification.

C. Sheath: A continuous metallic covering for conductors or cables.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of cable. Include splices and terminations for cables and cable accessories.

B. Samples: 16-inch (400-mm) lengths for each type of cable specified.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For **testing agency**.

B. Material Certificates: For each type of cable and accessory.

C. Source quality-control reports.

D. Field quality-control reports.

1.6 QUALITY ASSURANCE

A. Installer: Engage a cable splicer, trained and certified by splice material manufacturer, to install, splice, and terminate medium-voltage cable.

B. Testing Agency Qualifications: Member company of NETA or an NRTL.

1. Testing Agency's Field Supervisor: Certified by NETA to supervise on-site testing.

1.7 FIELD CONDITIONS

A. Interruption of Existing Electric Service: Do not interrupt electric service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electric service according to requirements indicated:

1. Notify **Owner** no fewer than seven days in advance of proposed interruption of electric service.
2. Do not proceed with interruption of electric service **Owner's** written permission.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, **provide products by one of the available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following**:

1. Cables:

a. Aetna Insulated Wire, Inc.; a Berkshire Hathaway company.
b. General Cable Technologies Corporation.
c. Kerite; a Marmon Wire & Cable/Berkshire Hathaway company.
d. Okonite Company (The).
e. Prysmian Cables & Systems.
f. Southwire Company.

2. Cable Splicing and Terminating Products and Accessories:

a. Adalet; a Scott Fetzer company.
b. DSG-Canusa; a Shawcor company.
c. Engineered Products Company.
d. G&W Electric Company.
e. MP Husky.
f. RTE Components; Cooper Power Systems, Inc.
g. Thomas & Betts Corporation.
h. Thomas & Betts Corporation/Elastimold.
i. 3M; Electrical Markets Division.

j. Tyco Electronics; Raychem Products.

B. Source Limitations: Obtain cables and accessories from single source from single manufacturer.

2.2 SYSTEM DESCRIPTION

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

B. Comply with IEEE C2 and NFPA 70.

2.3 CABLES

A. Cable Type: **Type MV 105**.

B. Comply with UL 1072, AEIC CS8, **ICEA S-97-682**

C. Conductor: **Copper**

D. Conductor Stranding: **Compact round, concentric lay, Class B**

E. Conductor Insulation: **Ethylene-propylene rubber**.

1. Voltage Rating:
   a. 15kV
2. Insulation Thickness: **133** percent insulation level.

F. Shielding: **Copper tape**, helically applied over semiconducting insulation shield.

G. Cable Jacket: **Sunlight-resistant PVC**

2.4 CONNECTORS

A. Comply with ANSI C119.4 for connectors between aluminum conductors or for connections between aluminum to copper conductors.

B. Copper-Conductor Connectors: Aluminum **barrel crimped** connectors.

2.5 SOLID TERMINATIONS

A. Shielded-Cable Terminations: Comply with the following classes of IEEE 48. Insulation class shall be equivalent to that of cable. Include shield ground strap for shielded cable terminations.

1. Class 1 Terminations: Modular type, furnished as a kit, with stress-relief tube; multiple, molded-silicone-rubber, insulator modules; shield ground strap; and compression-type connector.
2. Class 1 Terminations: Heat-shrink type with heat-shrink inner stress control and outer nontracking tubes; multiple, molded, nontracking skirt modules; and compression-type connector.
3. Class 1 Terminations: Modular type, furnished as a kit, with stress-relief shield terminator; multiple-wet-process, porcelain, insulator modules; shield ground strap; and compression-type connector.
4. Class 1 Terminations, Indoors: Kit with stress-relief tube, nontracking insulator tube, shield ground strap, compression-type connector, and end seal.

2.6 SEPARABLE INSULATED CONNECTORS

A. Description: Modular system, complying with IEEE 386, with disconnecting, single-pole, cable terminators and with matching, stationary, plug-in, dead-front terminals designed for cable voltage and for sealing against moisture.

B. Dead-Break Cable Terminators: Elbow-type unit with **200A and/or 600**A as indicated continuous-current rating; designed for de-energized disconnecting and connecting; coordinated with insulation diameter, conductor size, and material of cable being terminated. Include test point on terminator body that is capacitance coupled.

2.7 SPLICE KITS

A. Splice Kits: Comply with IEEE 404; type as recommended by cable or splicing kit manufacturer for the application.

B. Splicing Products: As recommended, in writing, by splicing kit manufacturer for specific sizes, materials, ratings, and configurations of cable conductors. Include all components required for complete splice, with detailed instructions.

1. Combination tape and cold-shrink-rubber sleeve kit with rejacketing by cast-epoxy-resin encasement or other waterproof, abrasion-resistant material.
2. Heat-shrink splicing kit of uniform, cross-section, polymeric construction with outer heat-shrink jacket.
3. Premolded, cold-shrink-rubber, in-line splicing kit.
4. Premolded, EPDM splicing body kit with cable joint sealed by interference fit of mating parts and cable.
5. Separable multiway splice system with all components for the required splice configuration.

2.8 MEDIUM-VOLTAGE TAPES

A. Ethylene/propylene rubber-based, 30-mil (0.76-mm) splicing tape, rated for 130 deg C operation. Minimum 3/4 inch (20 mm) wide.

B. Silicone rubber-based, 12-mil (0.30-mm) self-fusing tape, rated for 130 deg C operation. Minimum 1-1/2 inches (38 mm) wide.

C. Insulating-putty, 125-mil (3.175-mm) elastic filler tape. Minimum 1-1/2 inches (38 mm) wide.

2.9 ARC-PROOFING MATERIALS

A. Tape for First Course on Metal Objects: 10-mil- (250-micrometer-) thick, corrosion-protective, moisture-resistant, PVC pipe-wrapping tape.

B. Arc-Proofing Tape: Fireproof tape, flexible, conformable, intumescent to 0.3 inch (8 mm) thick, and compatible with cable jacket.

C. Glass-Cloth Tape: Pressure-sensitive adhesive type, 1 inch (25 mm) wide.

2.10 SOURCE QUALITY CONTROL

A. Test and inspect cables according to **ICEA S-97-682** before shipping.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install cables according to IEEE 576.

B. Proof conduits prior to conductor installation by passing a wire brush mandrel and then a rubber duct swab through the conduit. Separate the wire brush and the rubber swab by 48 to 72 inches (1200 to 1800 mm) on the pull rope.

1. Wire Brush Mandrel: Consists of a length of brush approximately the size of the conduit inner diameter with stiff steel bristles and an eye on each end for attaching the pull ropes. If an obstruction is felt, pull the brush back and forth repeatedly to break up the obstruction.
2. Rubber Duct Swab: Consists of a series of rubber discs approximately the size of the conduit inner diameter on a length of steel cable with an eye on each end for attaching the pull ropes. Pull the rubber duct swab through the duct to extract loose debris from the duct.

C. Pull Conductors: Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.

1. Where necessary, use manufacturer-approved pulling compound or lubricant that does not deteriorate conductor or insulation.
2. Use pulling means, including fish tape, cable, rope, and basket-weave cable grips, that do not damage cables and raceways. Do not use rope hitches for pulling attachment to cable.

3. Use pull-in guides, cable feeders, and draw-in protectors as required to protect cables during installation.
4. Do not pull cables with ends unsealed. Seal cable ends with rubber tape.

D. Support cables according to Section 260529 "Hangers and Supports for Electrical Systems."

E. Install "buried-cable" warning tape 12 inches (305 mm) above cables.

F. In manholes, handholes, pull boxes, junction boxes, and cable vaults, train cables around walls by the longest route from entry to exit; support cables at intervals adequate to prevent sag.

G. Install sufficient cable length to remove cable ends under pulling grips. Remove length of conductor damaged during pulling.

H. Install cable splices at pull points and elsewhere as indicated; use standard kits

I. Install terminations at ends of conductors, and seal multiconductor cable ends with standard kits.

J. Install separable insulated-connector components as follows:

1. Protective Cap: At each terminal junction, with one on each terminal to which no feeder is indicated to be connected.
2. Portable Feed-Through Accessory: At each terminal junction, with one on each terminal.
3. Standoff Insulator: At each terminal junction, with one on each terminal.

K. Arc Proofing: Unless otherwise indicated, arc proof medium-voltage cable at locations not protected by conduit, cable tray, direct burial, or termination materials. In addition to arc-proofing tape manufacturer's written instructions, apply arc proofing as follows:

1. Clean cable sheath.
2. Wrap metallic cable components with 10-mil (250-micrometer) pipe-wrapping tape.
3. Smooth surface contours with electrical insulation putty.
4. Apply arc-proofing tape in one half-lapped layer with coated side toward cable.
5. Band arc-proofing tape with two layers of 1-inch- (25-mm-) wide half-lapped, adhesive, glass-cloth tape at each end of the arc-proof tape.

L. Seal around cables passing through fire-rated elements according to Section 078413 "Penetration Firestopping."

M. Ground shields of shielded cable at one point only. Maintain shield continuity and connections to metal connection hardware at all connection points.

N. Identify cables according to Section 260553 "Identification for Electrical Systems." Identify phase and circuit number of each conductor at each splice, termination, pull point, and junction box. Arrange identification so that it is unnecessary to move the cable or conductor to read the identification.

3.2 FIELD QUALITY CONTROL

A. Testing Agency: **Engage** a qualified testing agency to perform tests and inspections.

B. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.

C. Perform the following tests and inspections **with the assistance of a factory-authorized service representative**:

1. Perform each visual and mechanical inspection and electrical test stated in NETA ATS. Certify compliance with test parameters.
2. After installing medium-voltage cables and before electrical circuitry has been energized, test for compliance with requirements.

D. Medium-voltage cables will be considered defective if they do not pass tests and inspections.

E. Prepare test and inspection reports.

END OF SECTION 260513