PART 1 — GENERAL

1.1 SUMMARY

A. Provide all materials, components, labor, and supervision necessary to furnish and install the Elevation Living Wall System by Varden™, including structural backing, trays, irrigation, growing media, plants, and accessories.

B. System is intended for interior or exterior environments where biophilic benefit, visual impact, and reduced maintenance are desired.

C. Related work specified elsewhere:

- 06 10 00 – Rough Carpentry (framing, furring, substrate preparation)
- 07 60 00 – Flashing & Sheet Metal
- 22 10 00 – Plumbing connections for water supply and drainage
- 32 90 00 – Planting

1.2 SYSTEM DESCRIPTION

A. Modular tray-based living wall system manufactured in the USA by Varden™, featuring recycled and reprocessed polypropylene trays, engineered substrate, and water-efficient irrigation delivery with minimal operational load.

B. System shall:

1. Support live plants in a vertical orientation.
2. Provide moisture control with reduced water usage.
3. Maintain stable root zones and prevent plant migration.
4. Allow easy plant replacement and long-term maintenance.
5. Support both ornamental and edible botanical compositions.

1.3 SUBMITTALS

A. Product Data:

1. Trays, rails, irrigation components, media, and accessories.
2. Sustainability attributes (recycled content, water efficiency).

B. Shop Drawings / Plant Schematic:

1. Layout of rows, tray count, irrigation zones, and plant placement.
2. Finalized Plant Schematic prepared by Elevation.

C. Samples:

1. One tray sample.
2. Proposed plant palette (digital or live samples as requested).

D. Closeout Submittals:

1. Operation & Maintenance Manual.
2. Watering schedule and plant care guidelines.

1.4 QUALITY ASSURANCE

A. Installer Qualifications:

1. Certified Plant Hackers Network™ Installer or an approved Elevation-trained contractor.
2. Minimum of one completed comparable living wall project.

B. Mock-Up:
Install 2’ x 2’ section on-site to demonstrate attachment, irrigation, and planting technique. Approved mock-up may remain as part of the final installation.

1.5 WARRANTY

A. Manufacturer Warranty: 5 years on trays and structural components.
B. Plant Warranty: 90 days after installation with compliance to client maintenance protocols or Elevation service plan.

PART 2 — PRODUCTS

2.1 MANUFACTURER

Verdtech, Inc. Made in the USA — utilizing reprocessed and recycled polypropylene trays and water-efficient organics.

Substitutions: Not permitted without prior written approval.

2.2 SYSTEM COMPONENTS

A. Living Wall Trays

1. Material: Injection molded BPA free Polypropylene (may include recycled content).
2. Length: 12” horizontal x 6” vertical increments
3. Features:
   - Integrated pooling zones and drainage channels
   - Natural Aspiration- Root-friendly
   - Reduced water requirements & standing water below
   - Soil Modules- Easy plant swaps

B. Soil Modules

1. Mesh- 5” diameter polypropylene in 12” lengths, standard.
2. Recyclable and BPA free
3. Patented mesh technology for natural soil aspiration.

C. Mounting Hardware

1. Galvanized steel panel standard 2’x3’ W2.0X3.0 (Bi- directional orientation)
2. Channel strut- stainless steel
2. Corrosion-resistant fasteners.
3. Compatible with wood framing, steel studs, concrete, or CMU.

D. Growing Media

1. Elevation proprietary compost-blend organic media engineered for:
    - Water efficiency
    - Reduced leaching
    - High oxygenation
    - Lightweight load

E. Irrigation System

1. Drip or micro-emitters integrated into zone manifolds.
2. Automated controller with optional smart sensor technology.
3. Pressure regulator, filter, and backflow preventer per code.
4. Optional recirculating system for interior installations.

F. Plants

1. Plant palette based on project light conditions, orientation, and micro-climate.
2. May include succulents, tropicals, ferns, leafy greens, herbs, edibles, etc.
3. All plants subject to seasonal availability. Optional bench grow.

G. Accessories

1. Integrated lighting (optional).
2. Moisture sensor package.
3. Edge trims: metals, wood, masonry, Cachebasins and containment, as required.

PART 3 — EXECUTION

3.1 EXAMINATION

A. Verify substrate is plumb, level, and structurally sound.
B. Confirm water supply, electrical supply (if needed), and drainage location.
C. Do not begin installation until unsatisfactory conditions are corrected.

3.2 INSTALLATION

A. Install rails, panels and trays per Elevation's written instructions.
B. Ensure trays are snapped into place to movement.
C. Install irrigation lines neatly with concealed routing.
D. Charge system, flush lines, test emitters, and set baseline programming.

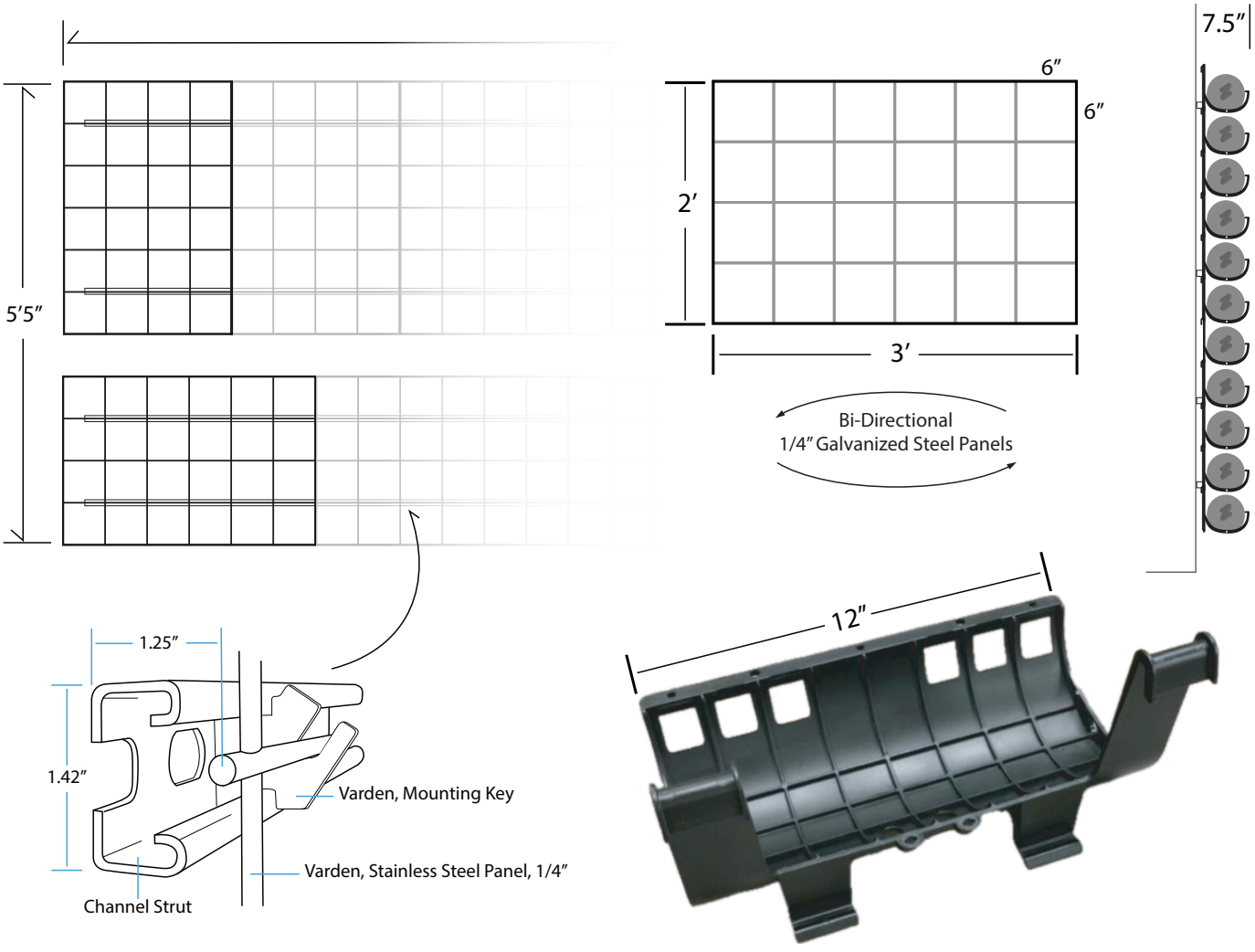
3.3 PLANTING

A. Use approved Plant Schematic for plant placement.
B. Inspect all plant material for health before installation.
C. Standard- Install three plants per 12" soil module evenly spaced.
D. Water-in thoroughly and calibrate irrigation zones.

3.4 CLEANING AND PROTECTION

A. Remove debris, clean trays, wipe overspray.
B. Protect installation until substantial completion and handoff.

3.5 COMMISSIONING

A. Provide client walk-through on irrigation settings, plant care, and seasonal adjustments.
B. Offer Elevation Living Walls maintenance service or Plant Hacker certified support.

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