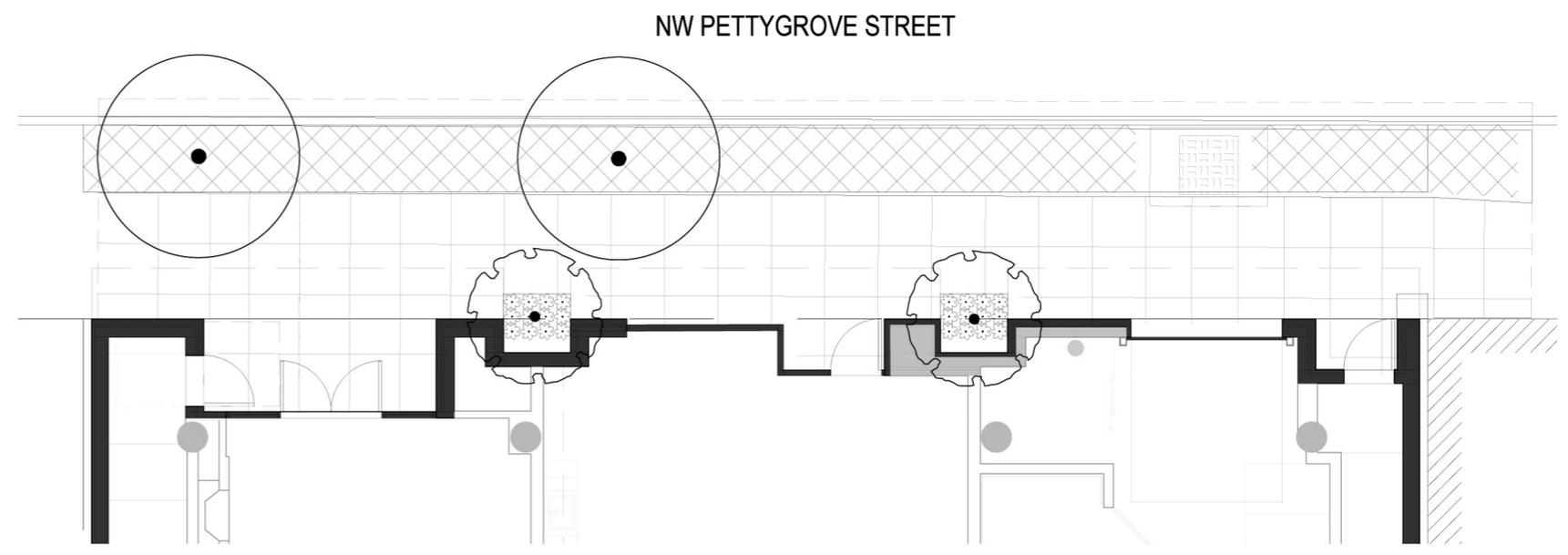


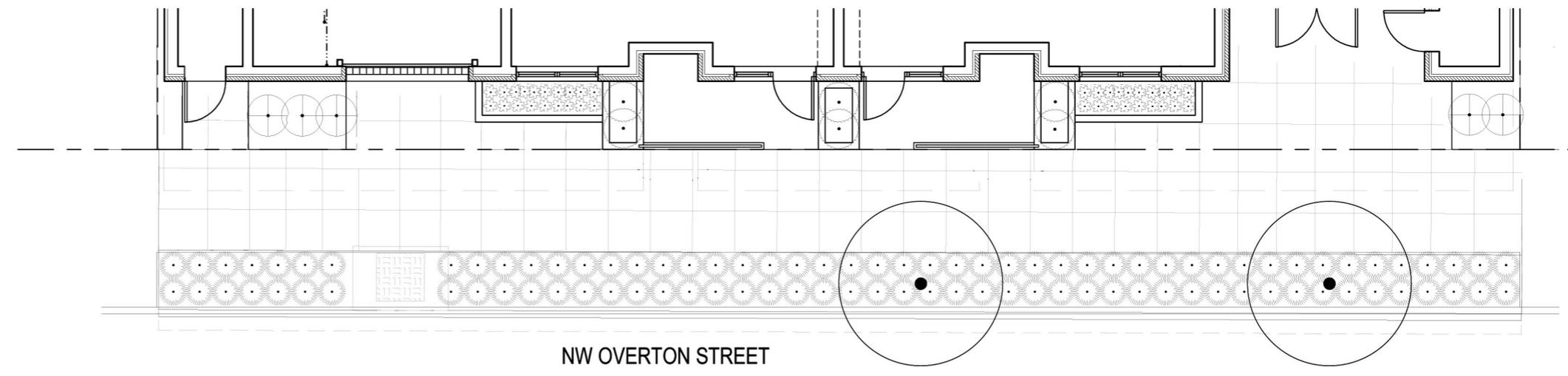
PLANTING PLAN- OVERALL

SCALE: 1"=30'-0"



PLANTING PLAN- PETTYGROVE STREET

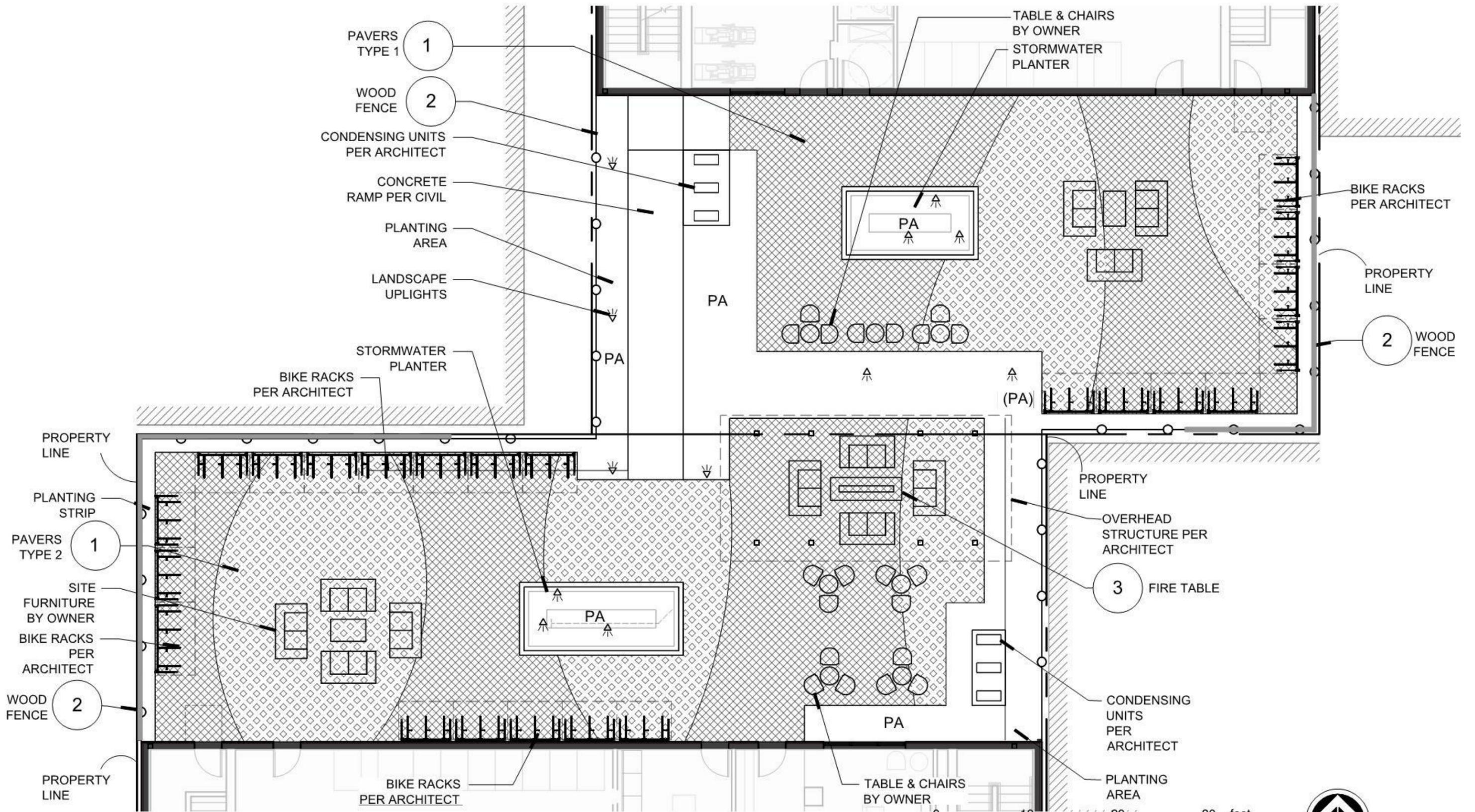
SCALE: 1"=10'-0"



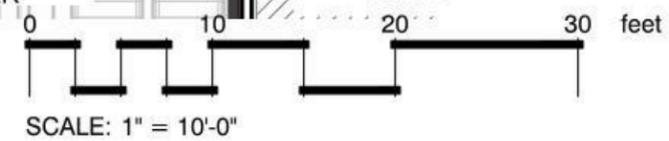
PLANTING PLAN- OVERTON STREET

SCALE: 1"=10'-0"

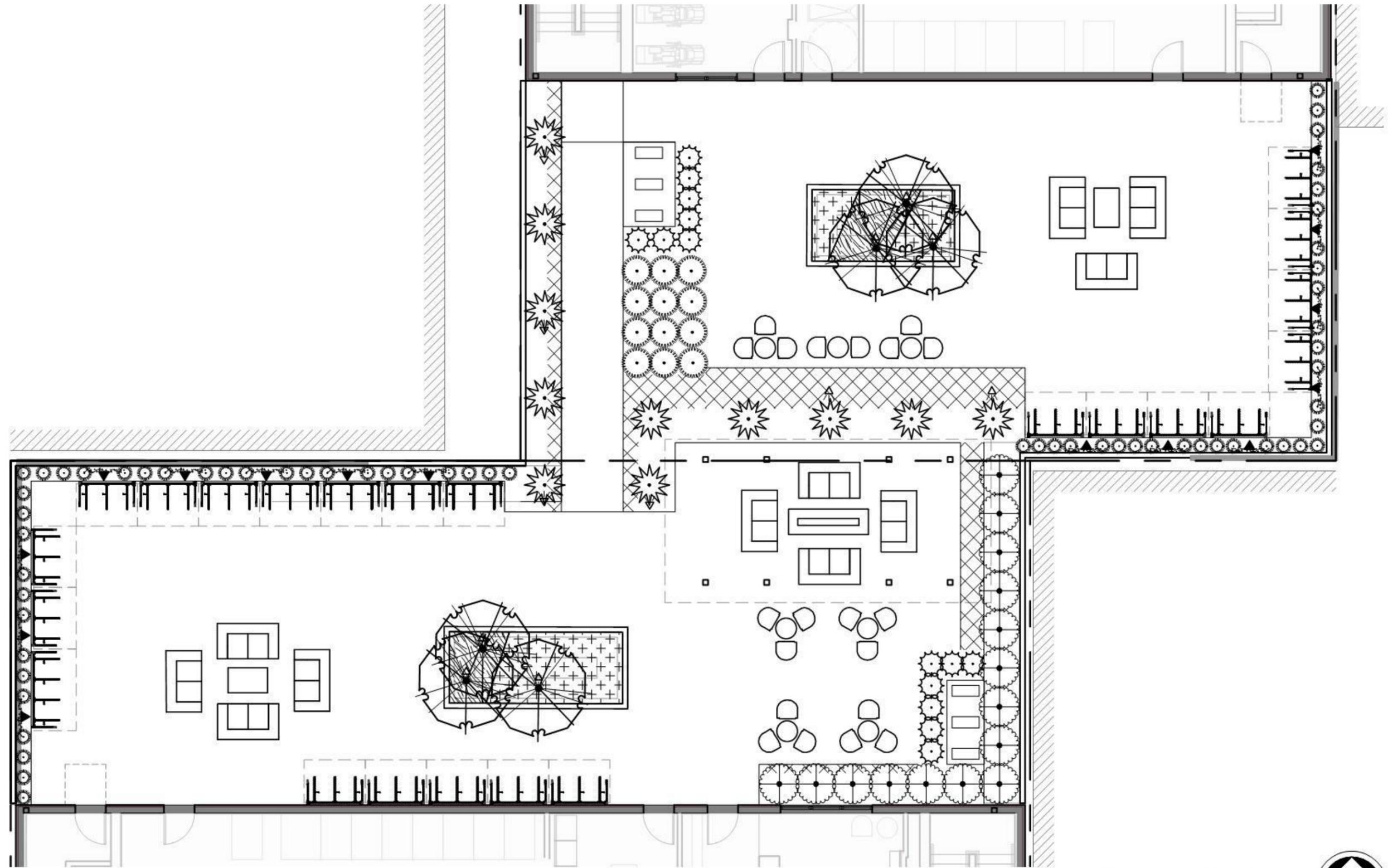




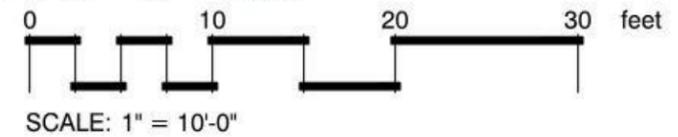
MATERIALS AND FURNISHINGS PLAN- COURTYARD



C5.1
LU14-220722DZ, AD



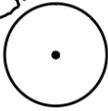
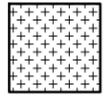
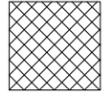
PLANTING PLAN- COURTYARD

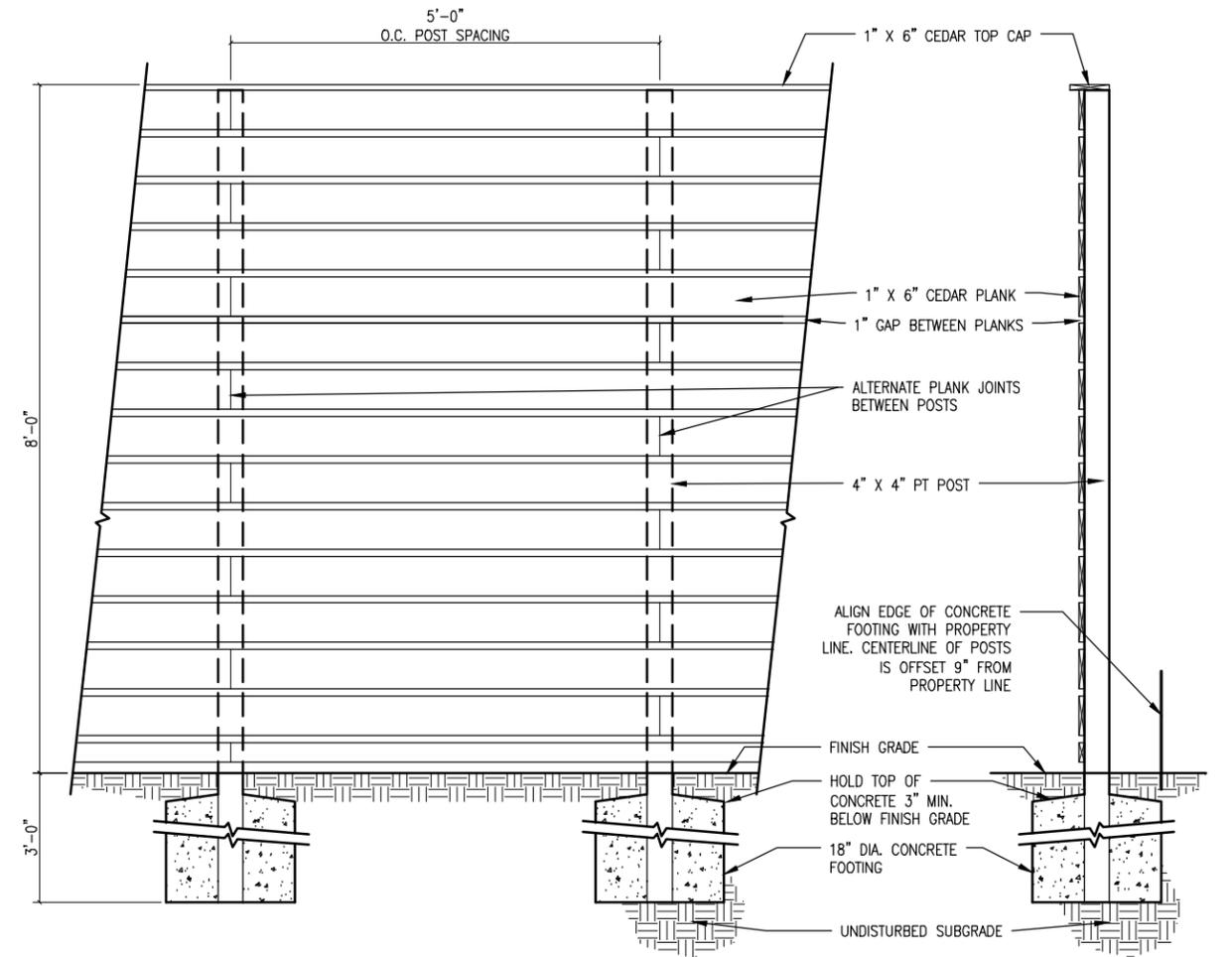
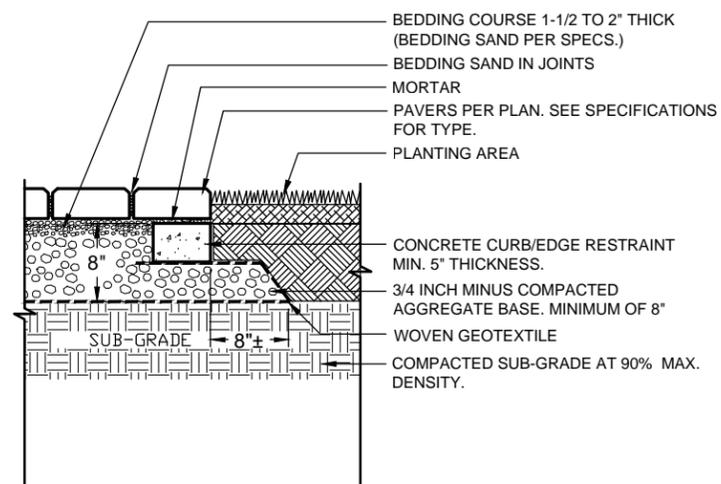


C5.2

LU14-220722DZ, AD

PLANT SCHEDULE

TREES		BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	SHRUB AREAS	BOTANICAL NAME / COMMON NAME	CONT
		ALNUS RUBRA / RED ALDER	B & B	2" CAL	12-15' H		CAREX MORROWII / JAPANESE SEDGE	1 GAL
		POPULUS TREMULA 'ERECTA' / EUROPEAN COLUMNAR ASPEN	B & B	2" CAL	12-15' H			
		QUERCUS ROBUR 'REGAL PRINCE' / REGAL PRINCE ENGLISH OAK	B & B	3.5" CAL	12-15' H		DESCHAMPSIA CESPITOSA / TUFTED HAIR GRASS	1 GAL
SHRUBS		BOTANICAL NAME / COMMON NAME	CONT	SIZE	GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT	
		BUXUS SEMPERVIRENS / AMERICAN BOXWOOD	24" B&B			PACHYSANDRA TERMINALIS / JAPANESE SPURGE	FLAT	
		CAMELLIA SASANQUA 'APPLE BLOSSOM' / APPLE BLOSSOM CAMELLIA ESPALIER	5 GAL					
		DAPHNE TRANSATLANTICA SUMMER ICE / SUMMER ICE DAPHNE	5 GAL					
		DESCHAMPSIA CESPITOSA 'SCHOTTLAND' / SCHOTTLAND HAIR GRASS	1 GAL					
		LIRIOPE MUSCARI 'BIG BLUE' / BIG BLUE LILYTURF	1 GAL					
		PENNISETUM ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS	1 GAL					
		PHYLLOSTACHYS AUREOSULCATA LAMA TEMPLE / YELLOW-GROVE BAMBOO	10 GAL					
		TAXUS BACCATA 'FASTIGATA' / FASTIGA ENGLISH YEW	7 GAL					
		THUJA OCCIDENTALIS 'EMERALD' / EMERALD ARBORVITAE	B & B	6'				
		YUCCA GLORIOSA 'VARIEGATA' / VARIEGATED SPANISH DAGGER	5 GAL					



TYPICAL ELEVATION

TYPICAL CROSS SECTION

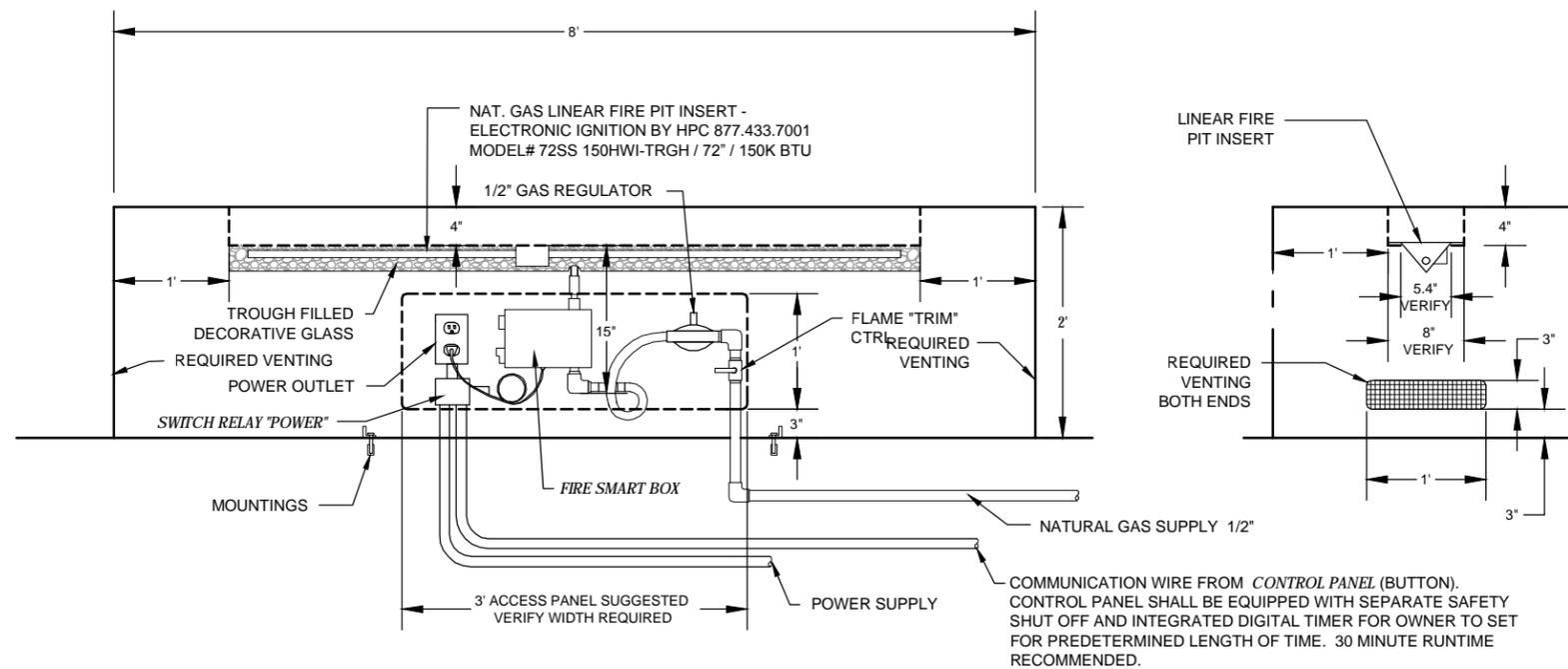
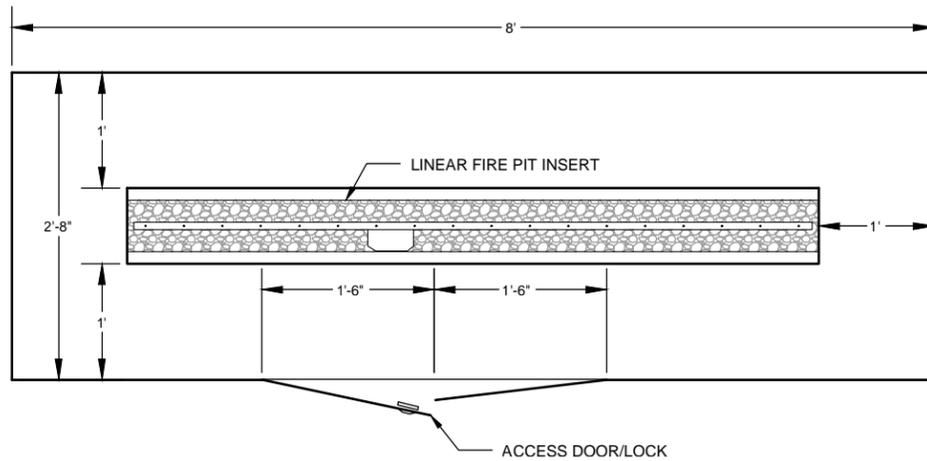
NOTES:

1. ALL CEDAR SHALL BE PREMIUM FENCE GRADE.
2. WOOD FINISH SHALL BE SIKKENS CETOL SRD TRANSLUCENT STAIN, COLOR: NATURAL 078.
3. HEIGHT AND LOCATION OF STEPS IN TOP OF WALL SHALL BE LOCATED IN THE FIELD BY LANDSCAPE ARCHITECT AFTER POST LOCATIONS AND EXISTING GRADES HAVE BEEN STAKED.

1 UNIT PAVER WITH CONCRETE EDGE RESTRAINT
 NTS 321413-09

2 WOOD FENCE
 NTS

DETAIL-FILE



FIREPIT CONTROL INTENT OF DESIGN:
 TENANT WILL PRESS FEATURE START BUTTON AT *CONTROL PANEL* (NOT SHOWN). CONTROL PANEL EQUIPPED WITH TIMER, RELAYS SIGNAL TO *SWITCH RELAY* PROVIDING POWER TO *FIRE SMART BOX*, WHICH ALLOWS THE AUTOMATIC IGNITION OF THE FIRE TABLE. INSTALLATION OF AN EMERGENCY KILL BUTTON IS RECOMMEND FOR SAFETY. FIRE SMART BOX WILL SHUT OFF GAS SUPPLY IN THE EVENT THAT THE FLAME GOES OUT.

3 OUTDOOR FIRE TABLE
 NTS

129343-01

GENERAL NOTES

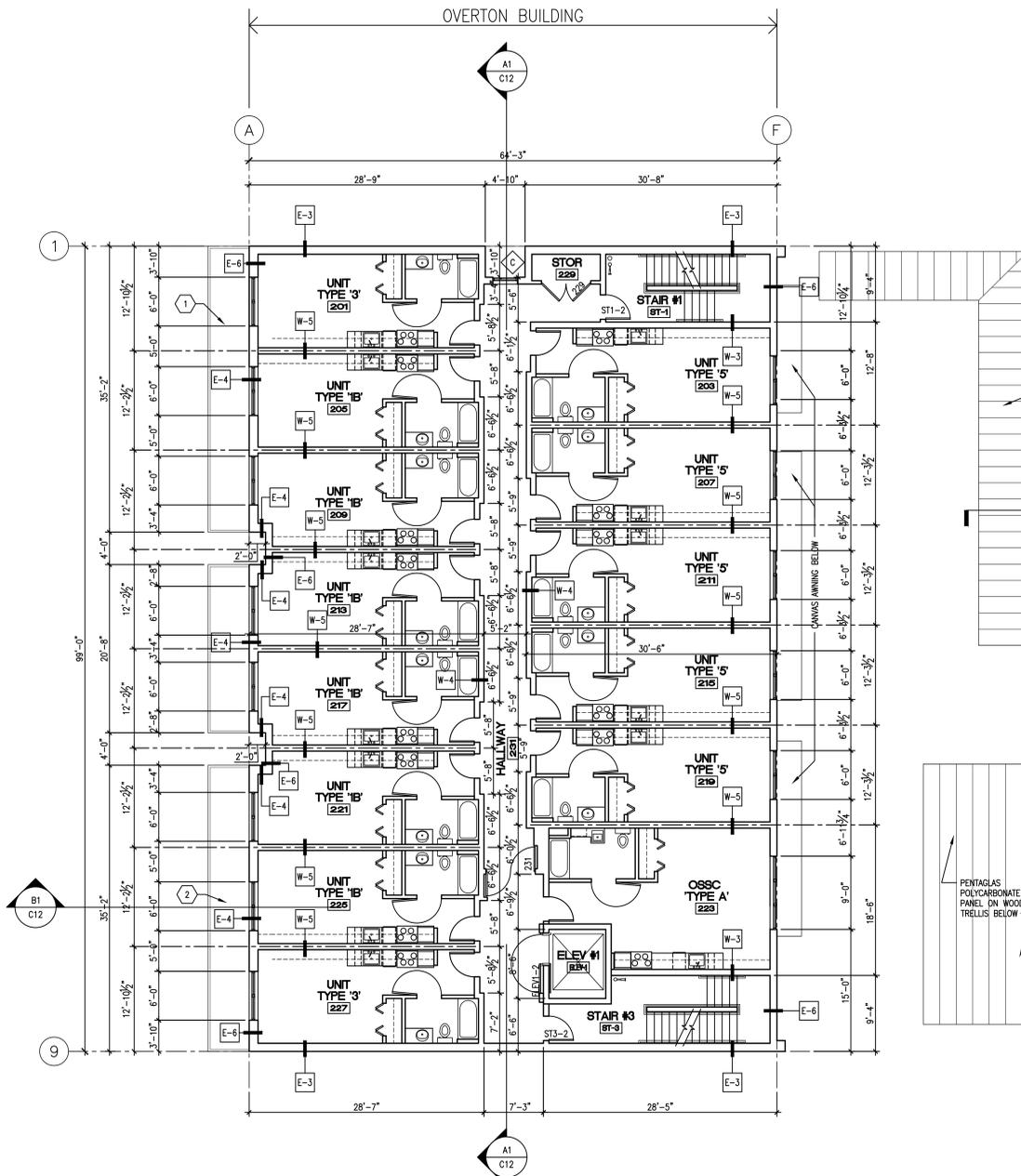
1. FOR WALL/FLOOR/ROOF ASSEMBLIES, SEE SHEET A-501 AND A-502.
2. FOR WINDOW & DOOR SCHEDULES, SEE SHEET A-601 AND A-602.
3. DIMENSIONS ARE TO FACE OF FINISH AND CENTERLINE OF UNIT DEMISING WALLS, TYP.
4. FOR UNIT PLANS BY TYPE, SEE SHEETS A-401 & A-402.

KEYNOTES

- 1 ROOF BELOW
- 2 CANOPY BELOW

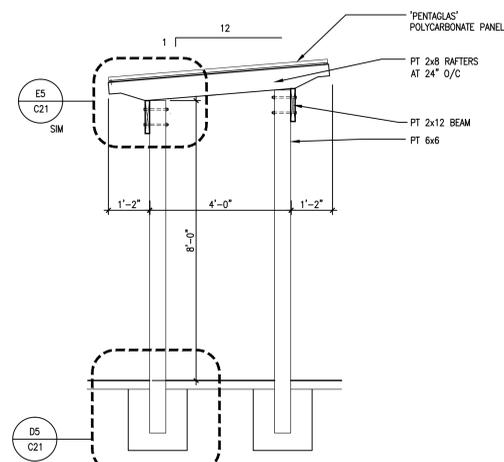
LEGEND

- BRICK VENEER WALL
- FIBER CEMENT RAINSCREEN WALL
- INTERIOR PARTITION



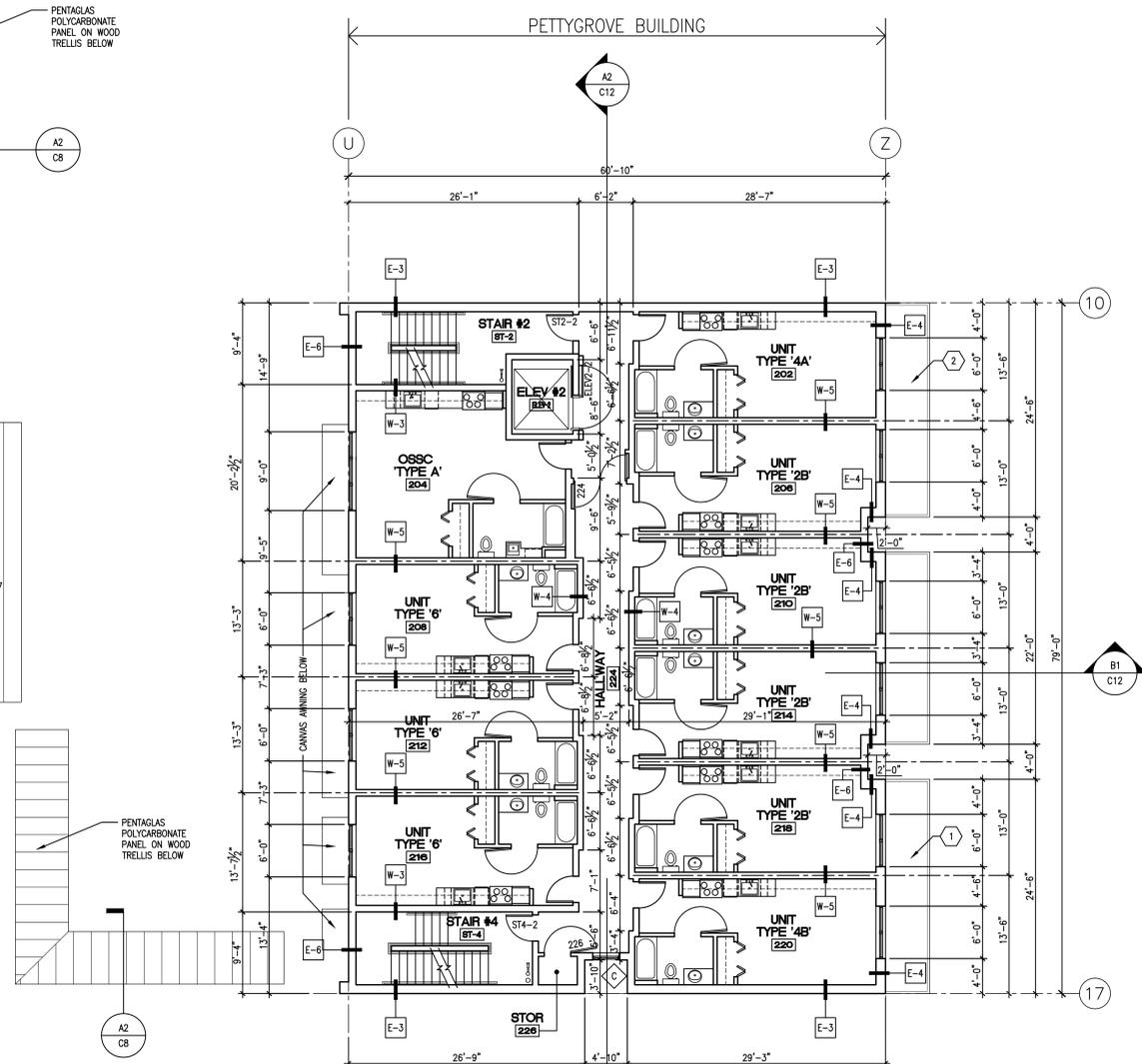
A1 SECOND FLOOR PLAN (FLOORS THREE THRU SIX SIMILAR)

1/8" = 1'-0"



A2 BICYCLE SHELTER SECTION

1/2" = 1'-0"



MARK DATE DESCRIPTION

Tess O'Brien
Apartments

1854 NW Pettygrove Street
and
1951 NW Overton Street
Portland, OR 97209

APPROVED: PC
DRAWN: _____
DATE: 12/12/2014
PROJECT NUMBER: 040513

SECOND FLOOR
PLAN

C8

LU14-220722DZ, AD

GENERAL NOTES

- FOR WALL/FLOOR/ROOF ASSEMBLIES, SEE SHEET A-501 AND A-502.
- FOR WINDOW & DOOR SCHEDULES, SEE SHEET A-601 AND A-602.
- DIMENSIONS ARE TO FACE OF FINISH AND CENTERLINE OF UNIT DEMISING WALLS, TYP.
- FOR UNIT PLANS BY TYPE, SEE SHEETS A-401 & A-402.
- SEE CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL SITE INFORMATION.

KEYNOTES

- NOT USED
- CHAINLINK FENCE AND GATE
- 8'-0" HIGH WANSCOT OF 3/4" FIRE RETARDANT PLYWOOD - PAINT TO MATCH WALL

LEGEND

-  BRICK VENEER WALL
-  FIBER CEMENT RAINSCREEN WALL
-  INTERIOR PARTITION
-  CONCRETE COLUMN / WALL
-  METAL WIRED PARTITIONS
-  TRENCH DRAIN
-  PAVING STRIPING

MARK DATE DESCRIPTION

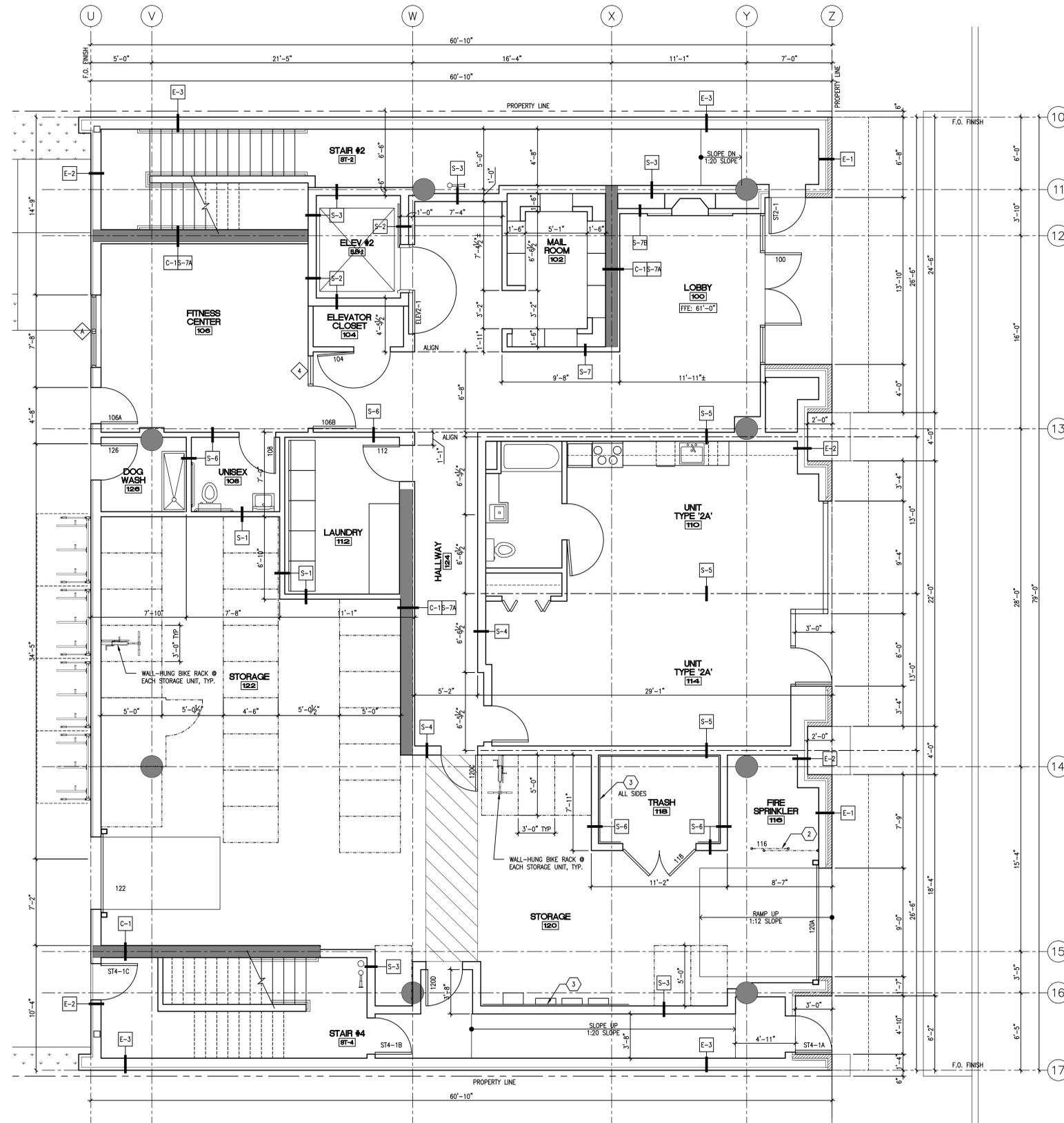
Tess O'Brien
Apartments

1854 NW Pettygrove Street
and
1951 NW Overton Street
Portland, OR 97209

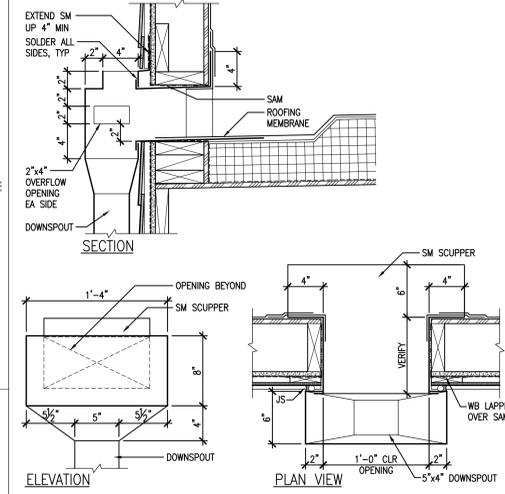
APPROVED: PC
DRAWN: _____
DATE: 12/12/2014
PROJECT NUMBER: 040813

ENLARGED PLANS

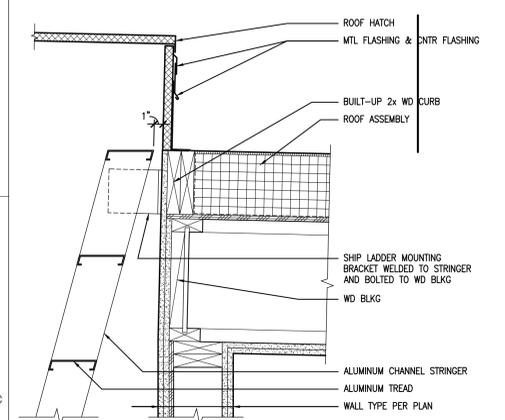
C17
LU14-220722DZ, AD



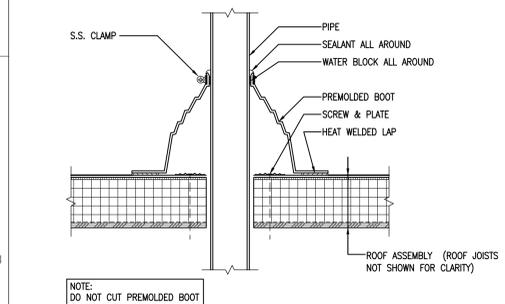
A1 ENLARGED FIRST FLOOR PLAN - PETTYGROVE BUILDING
1/4" = 1'-0"



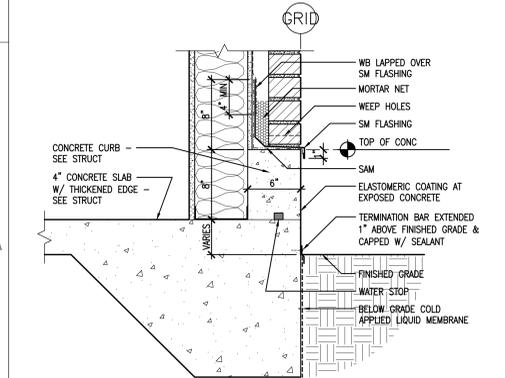
D1 SCUPPER DETAILS
1 1/2" = 1'-0"



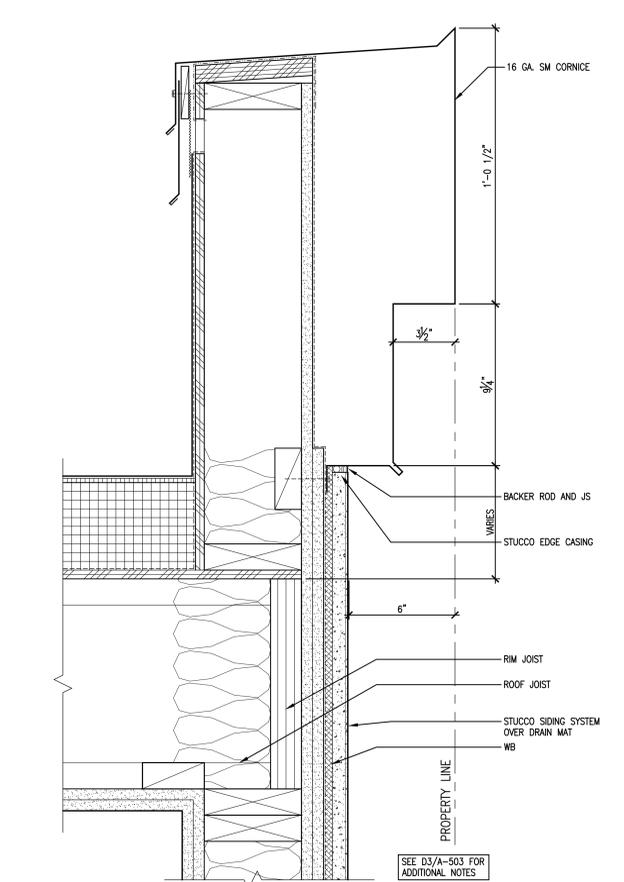
C1 ROOF HATCH / SHIP LADDER
1 1/2" = 1'-0"



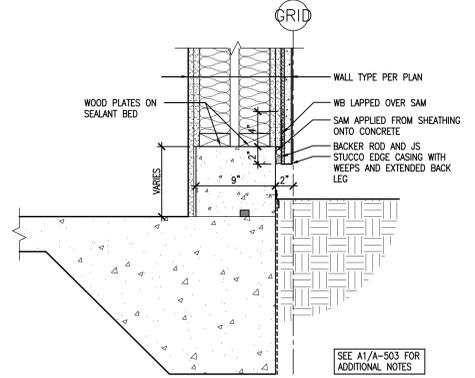
B1 PREMOLDED VENT BOOT FLASHING
1 1/2" = 1'-0"



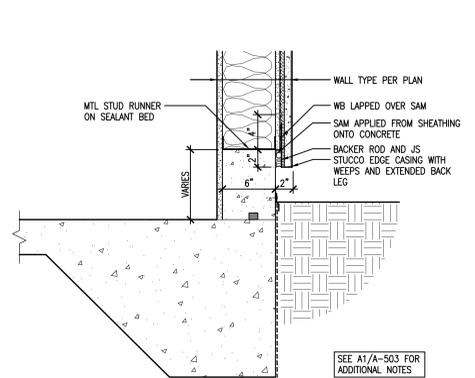
A1 WALL BASE AT BRICK VENEER WALL
1 1/2" = 1'-0"



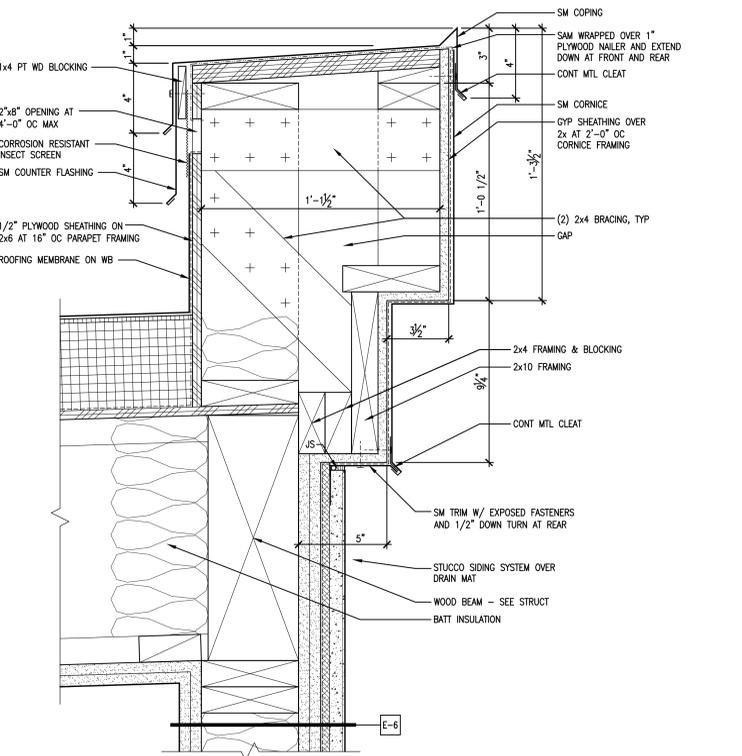
C2 PARAPET AT STUCCO CLAD SIDE FASCIA
3" = 1'-0"



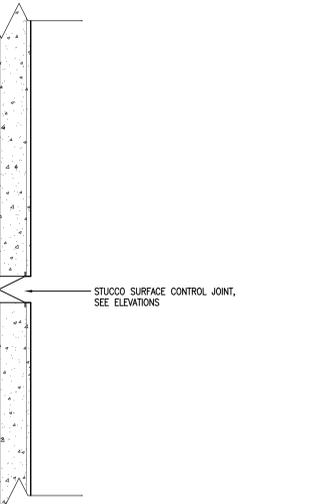
B2 WALL BASE AT STUCCO-CLAD WALL
1 1/2" = 1'-0"



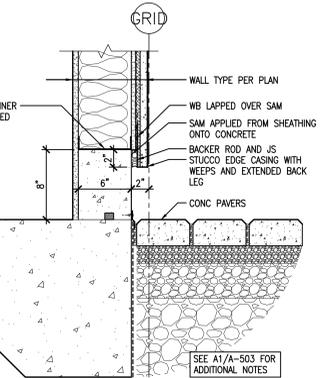
A2 WALL BASE AT FCS-CLAD WALL
1 1/2" = 1'-0"



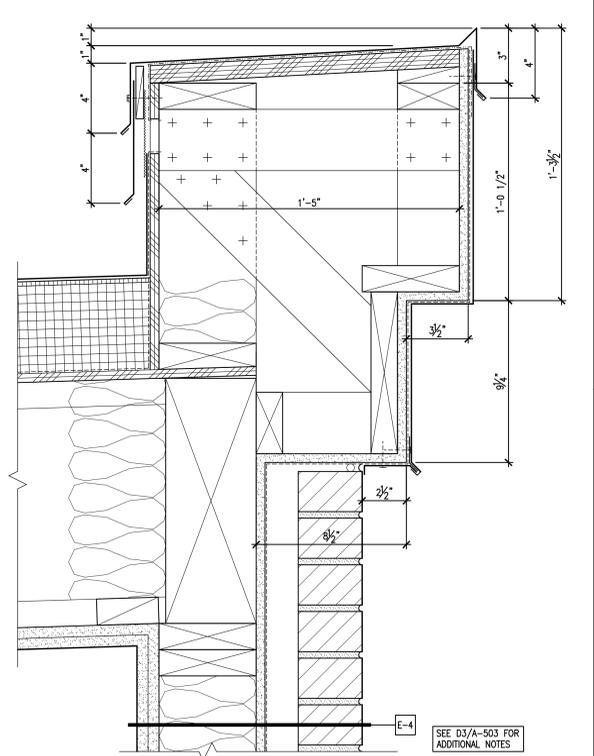
D3 PARAPET AT FCP-CLAD FRONT + REAR FASCIA
3" = 1'-0"



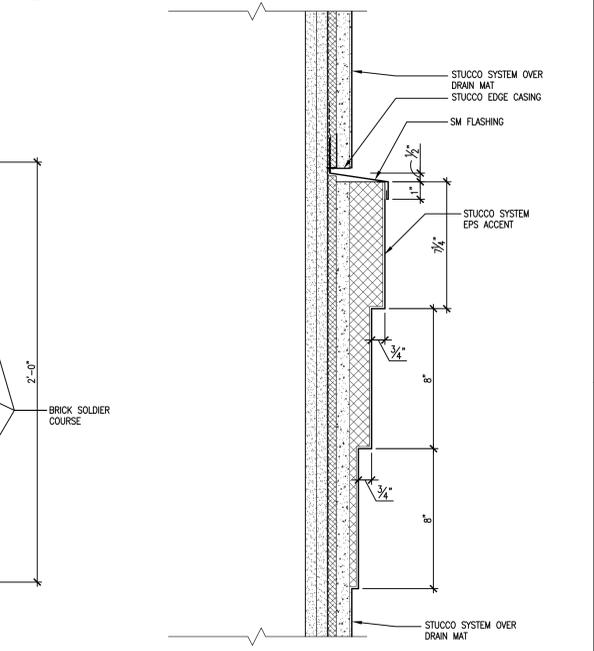
B3 TYPICAL VERT. CTRL JOINT - STUCCO
HALF SCALE



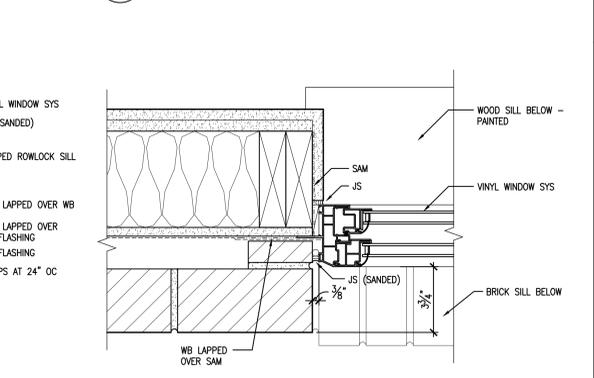
A3 WALL BASE AT FCS-CLAD WALL AT COURTYARD
1 1/2" = 1'-0"



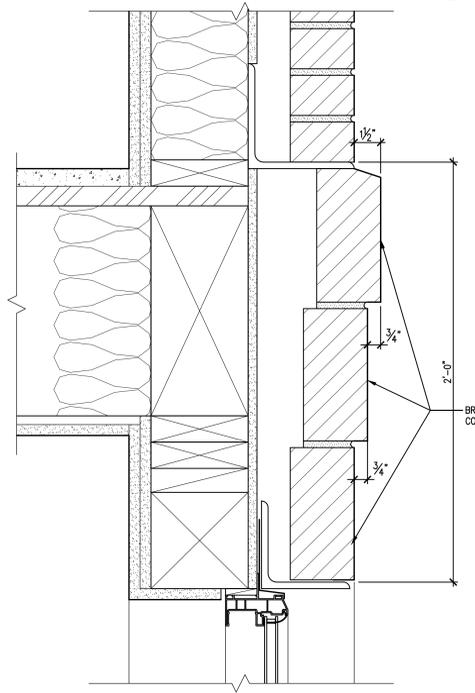
D5 PARAPET AT BRICK VENEER FRONT FASCIA
3" = 1'-0"



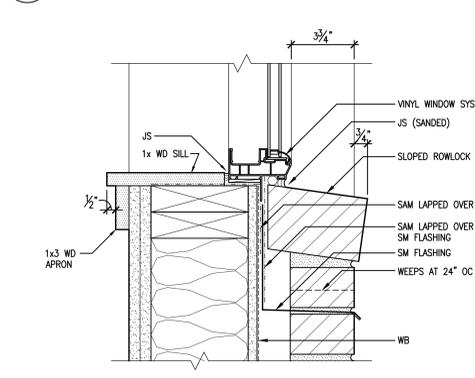
B5 STUCCO CORNICE
3" = 1'-0"



A5 WINDOW JAMB AT BRICK VENEER WALL
3" = 1'-0"



B4 BRICK CORNICE
3" = 1'-0"



A4 WINDOW SILL AT BRICK VENEER WALL
3" = 1'-0"

MARK DATE DESCRIPTION

Tess O'Brien
Apartments
1954 NW Pettygrove Street
and
1951 NW Overton Street
Portland, OR 97209

APPROVED: PC
DRAWN:
DATE: 12/12/2014
PROJECT NUMBER: 04093

EXTERIOR DETAILS

C18
LU14-220722DZ, AD



Stucco Siding System @ Side Walls
To match Benjamin Moore
AF-655 silhouette



Stucco Siding System @ Courtyard Walls
To match Benjamin Moore
1469 eagle rock



Stucco Accent Panel
To match Benjamin Moore
509 cypress green



Roof Membrane
White Thermoplastic Polyolefin



Precast Stone @ Entry & Headers
Arriscraft Renaissance
Nutmeg, Sandblasted



Brick Veneer
Mutual Materials
Autumn Blend, Misson Texture



Vinyl Windows, Aluminum Storefront, Canopy Fascias,
Metal Railings & Sheet Metal Copings, Misc Trim
Black

MINW-LED

Construction:

- Housing and chassis is steel
- Diffuser is .10 extruded white acrylic
- Accent bars and rings are extruded aluminum

Light Source:

- LED
- Dimming (0 - 10v) to 10% **Included**

Notes:

- Integral mounting plate; keyhole slots left and right
- Top and bottom white acrylic lens – standard
- Not all material and accent styles are available
- Optional lens cover (ALC) eliminates up/down light
- UL and CUL listed WET location
- LED Components
 - OSRAM Gen II Distributed Array
 - CRI > 80
 - 11w - 1225 Lumens
 - 14w - 1600 Lumens
 - 21w - 2450 Lumens
 - Dimming (10% or 1%)
 - OSRAM Power Supply
 - 5-Year Warranty on LED Components



Type:	
Job Name:	



WALL
CEILING
PENDANT
OUTDOOR

@ Walk-Up Units

@ Building Entries

MINW-916-LED Height - 16" Width - 9" Depth - 4" MC - 8"	MINW-920-LED Height - 20" Width - 9" Depth - 4" MC - 10"	MINW-926-LED Height - 26" Width - 9" Depth - 4" MC - 13"
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ORDERING INFORMATION

Example: MINW-920-LED-B-U-14W-3-Z3-WSA

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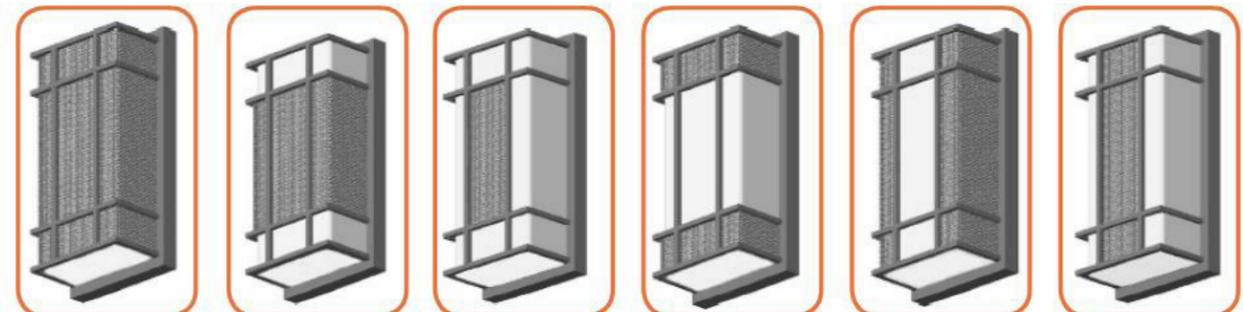
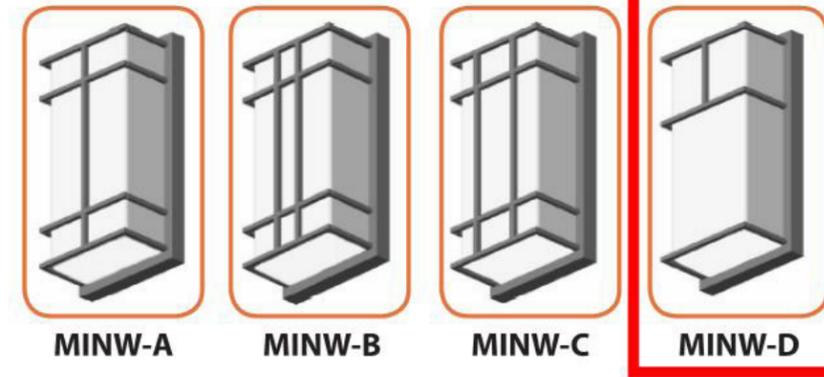
Model	Cage	Voltage	Lamping	Kelvin	Finish	Diffuser	Options
MINW-916-LED	A	U 120 - 277	11w LED / 1225lm (117 lm per watt)	2 3000K 3 3500K 4 4000K	B1 Satin Black Z1 Satin Bronze Z3 Text Bronze	WSA White Smooth Acrylic Optional Cage Accents (See Page 2) Material F Filigree P Perforated Screen M Wire Mesh W Waffle Pattern Style SC Screen Complete CC Center Complete CH Center Half EC Ends Complete SF Sides Full CF Center Full OX Custom	DIM LED dimming driver (0 - 10v) Dimming to 10% (Included) DIM1 LED dimming driver (0 - 10v) Dimming to 1% (See Price List) ALC Aluminum Lens Cover - See Notes Battery Backup Options BB07 7 Watts (820lm) for 90-Minutes BB10 10 Watts (1170lm) for 90-Minutes
MINW-920-LED	B C D X		14w LED / 1600lm (117 lm per watt)		Optional (See Price List)		
MINW-926-LED			21w LED / 2450lm (117 lm per watt)		W1 Yolk W2 Gloss White W3 Text White B2 Text Black T4 Shimmer Gray M13 Anod Silver T6 Pewter W13 Pearl Beige P2 Brushed Alum P9 Brushed Nickel M16 Antique Brass		



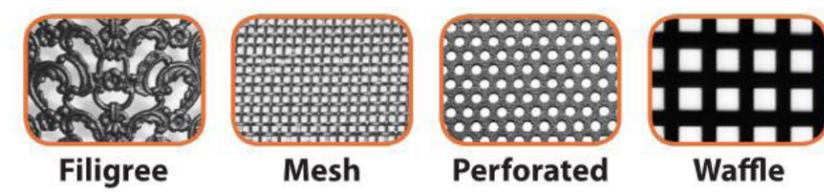
28435 Industry Drive., Valencia, California 91355
West Coast Sales: 800-325-4448 / 661-257-0286 • fax 800-323-2346 / 661-257-0201
East Coast Sales: 866-350-0991 • fax 866-490-5754
www.lightwayind.com • sales@lightwayind.com



MINW Series Cage Styles and Accents



SC Screen Complete
CC Center Complete
CC Center Half
EC Ends Complete
SF Sides Full
CC Center Full



Filigree **Mesh** **Perforated** **Waffle**



28435 Industry Drive., Valencia, California 91355
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East Coast Sales: 866-350-0991 • fax 866-490-5754
www.lightwayind.com • sales@lightwayind.com



DESCRIPTION

Senergy Sentry Stucco Ultra is a highly advanced Portland cement-based exterior wall system. Its features include a rainscreen design, a liquid applied air/water-resistive barrier, drainage mat, rustproof fiberglass lath, a base coat and textured finishes.

Integrated system components include SENERSHIELD-R, DRAINAGE MAT DF, SENERGY STUCCOBASE™/ STUCCOBASE PREMIX, optional STUCCO PRIME, BASE COAT, optional reinforced base coat and 100% acrylic polymer finish. Apply the system to PERMALATH® 1000 or 3.4 lb/ sq. yd. metal lath over DRAINAGE MAT DF over SENERSHIELD-R air/water-resistive barrier over the following acceptable sheathing: PermaBase® Cement Board and other cement-boards conforming with ASTM C1325 (Type A-exterior), poured concrete/unit masonry, Fiberock® Aqua-Tough™ Sheathing, eXP™ sheathing (ASTM C1177), GlasRoc® sheathing (ASTM C1177), Securock™ glass-mat sheathing (ASTM C1177), DensGlass™ exterior sheathing (ASTM C1177), gypsum sheathing (ASTM C79/C1396), Exposure I or exterior plywood (Grade C/D or better), or Exposure I OSB.

Required control joints can be used as design elements, and special shapes and architectural details are easy to add.

Finishes are available in a limitless color selection and offer performance enhancement options, including increased resistance to dirt pick-up, mildew and cracking.

Senergy Sentry Stucco Ultra features easy installation, proven performance, exceptional durability and low maintenance.

USES

New or retrofit residential, institutional and commercial low-rise construction such as hotels, hospitals, retail centers, schools, multi-family apartments and condominiums, and government facilities.

ADVANTAGES

- Rain screen design provides added protection against the effects of incidental moisture intrusion.
- Fluid applied air/water-resistive barrier provides a durable, seamless building wrap.
- Three-dimensional drainage mat provides a drainage plane for maximum drainage and drying performance.
- Self-furred glass fiber reinforcing lath in durable plaster base that will not rust.
- Factory prepared STUCCOBASE minimizes potential site mixing errors; improves quality control.
- Acrylic modified base coat over STUCCOBASE enhances water resistance performance and finish coat aesthetics.
- Elastomeric finish coat bridges hairline cracks.
- Reinforcing mesh option further increases crack resistance.
- Very resistant to impact and punctures; good for high traffic areas.
- Fade-, abrasion-and dirt-resistant finishes contribute to low maintenance and life-cycle costs.
- EPS shapes integrate into the system for economical architectural detailing; more valuable appearance.

DESIGN CONSIDERATIONS

- Maximum allowable deflection L/360, based on stud properties only.
- The design wind load shall not exceed the system's allowable wind load as stated in applicable code reports.
- Details shall conform with BASF Wall Systems' recommendations and shall be consistent with the project requirements.
- Control joints and trim accessories are required. Control joint placement is required in the Senergy Sentry Stucco Ultra Stucco Wall System every 144 ft² per ASTM C1063.
- Consult the framing and sheathing manufacturer for design and application considerations.
- Expansion joints are required in the system where they exist in the substrate, where the system adjoins dissimilar construction, at changes in substrates and at floor lines in multilevel wood frame construction.
- System shall terminate at expansion joints.
- Sealant joints shall be detailed and installed per sealant manufacturer's recommendations.
- A minimum 6:12 slope is required on all horizontal surfaces greater than 1".
- Backer rod, sealant and flashing are required at door and window openings.

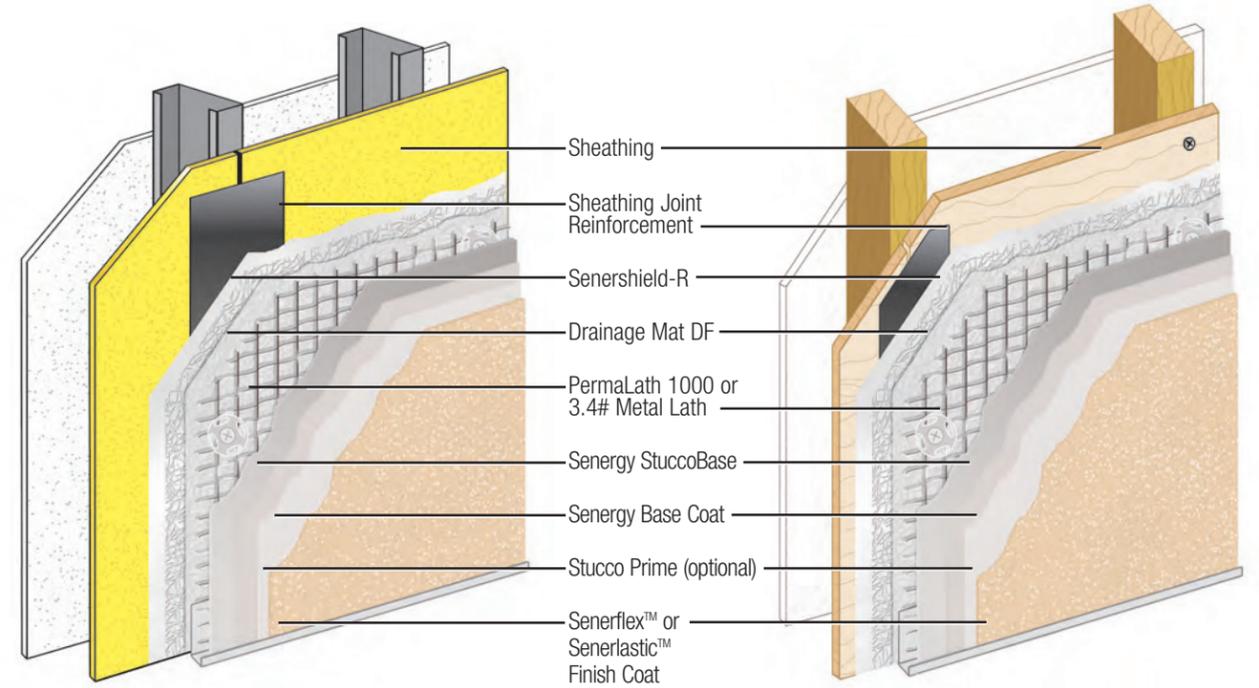
BEST PRACTICES FOR INSTALLERS

General

- It is recommended that the building should carry a minimum of 90 percent of the dead building load and that the interior gypsum should be installed prior to installation of the stucco.
- Coordination of other trades is recommended so that wall penetrations for cable, electricity, water and vents are installed with proper enclosures prior to installation of the stucco.
- Pail components must be kept at a minimum of 4°C (40°F) and at a maximum of 43°C (110°F) during shipping and storage.
- A minimum temperature of 4°C (40°F) is required during application of liquid components and until completely dried.
- Protect dry (bagged) products from moisture.
- No additives are permitted to any components unless specifically approved by BASF Wall Systems.
- Follow the application instructions for each component.
- Windows and doors may permit some water to pass through the frame materials or joints. To reduce the potential for intruding water to degrade water-sensitive sheathing and framing, and to keep water out of the stud cavity, rough openings must be properly protected and a means provided to allow intruding water to escape.

Framing/Sheathing

- Framing, plywood and OSB should have moisture content of less than 19 percent. Wet wood will shrink and deform, potentially resulting in the cracking of stucco.
- Sheathing must be securely fastened per applicable building code and manufacturer's requirements. Sheathing must be attached with corrosion resistant fasteners.
- All substrates must be clean, dry and sound without planar irregularities greater than 1/4" in 10'.
- Sheathing must be protected with a weather resistant barrier installed over the sheathing per applicable building code and manufacturer's requirements.
- Sheathing and lath must be installed according to code requirements in effect.



Sentry Stucco Ultra System over metal studs with ASTM C1325 or ASTM C1177 sheathing

Sentry Stucco Ultra System over wood studs with Exposure 1 or exterior plywood (Grade C/D or better) or Exposure 1 OSB sheathing

EPS Insulation (Optional)

Optional EPS insulation boards should be stored flat, out of direct sunlight.

StuccoBase

- Use only clean, potable water for the mix. Plaster sand must be clean, free of impurities and comply with ASTM C144.
- STUCCOBASE must damp cure for a minimum of 48 hours. Lightly and evenly fog the wall as frequently as conditions dictate in order to keep the base damp.
- STUCCOBASE must cure a minimum of 6 days prior to the application of EPS shapes, base coat, optional reinforced base coat layer, optional primer and finish coat.

Base Coat

- Apply mesh reinforced base coat after STUCCOBASE has cured for a minimum of 6 days.
- Special shapes should be attached prior to reinforcement layer over STUCCOBASE. They must be reinforced with SENERGY BASE COAT and FLEXGUARD 4 REINFORCING MESH.
- If optional mesh reinforcement is specified, apply FLEXGUARD 4 or INTERMEDIATE 6 and SENERGY BASE COAT over the entire STUCCOBASE surface.
- Reinforcing meshes must overlap a minimum of 2 1/2".
- Mesh color or predominant mesh pattern should not be visible through the base coat.
- Protect from precipitation for a minimum of 24 hours.

Finish

- Use only stainless steel trowels.
- Avoid working in direct sunlight.
- Finishes should be applied with adequate manpower, tools and staging to keep a wet edge.

- A primer tinted to the color of the finish is recommended prior to application of rilled finishes.
- Do not run finish into joints.
- Do not quit in the middle of a wall; run to natural breaks.
- Do not use different batches of finish on the same elevation.
- Protect from precipitation for a minimum of 24 hours.
- Use only sealants that are acceptable for use with this system. Acceptable sealants and backer rods or bond breakers must be installed at all transitions between this system and other wall assembly elements such as windows, doors, vents, transitions to dissimilar materials, A/C cases, and other penetrations.
- Do not apply finish over sealants.

LIMITATIONS

1. Susceptibility to efflorescence can be reduced by using TINTED PRIMER.
2. Not for use below grade.
3. Base coat thickness of this system might result in planar irregularities in finished wall appearance.
4. Do not cut aesthetic grooves into the wall surface.

KEY UPGRADES AVAILABLE:

- FLEXGUARD 4 REINFORCING MESH for maximum crack & moisture resistance
- Use a Senergy Specialty Finish for an old world or natural stone look
- STUCCO PRIME or finish color enhancement

Extruded Aluminum Brick Vent

Application and Design

Brick vents provide a permanent means of ventilation for crawl spaces, hung ceilings, incinerator rooms, chimney flues, foundations, pipe spaces and corridors. Extruded construction provides a quality finished appearance. A high water stop at the rear and deep overlapping blades with storm stops provide maximum resistance to rain and weather.

Standard Construction

Frame Heavy gauge extruded 6063T5 aluminum, 4 in. x 0.125 in. nominal wall thickness

Blades Heavy gauge extruded 6063T5 aluminum, 0.125 in. nominal wall thickness, positioned at 45° angles

Construction . . . Mechanically fastened

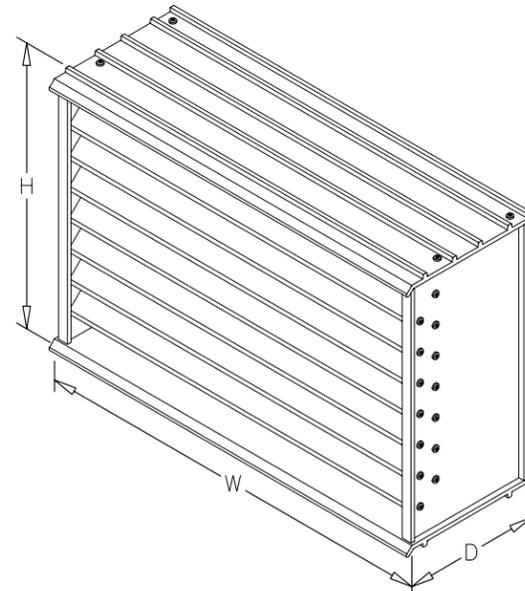
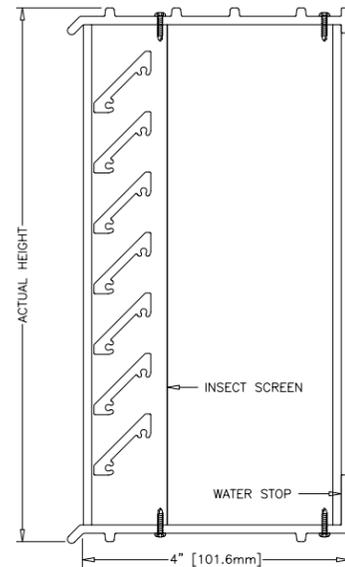
Insect screen . . 18 in. x 14 in. aluminum mesh, inside mount (rear)

Finish 204-R1 Clear anodize

- Available Sizes**
- .8 1/8 in. W x 2 3/8 in. H
 - 8 1/8 in. W x 4 3/4 in. H
 - 8 1/8 in. W x 7 3/4 in. H
 - 12 in. W x 2 3/8 in. H
 - 12 in. W x 4 3/4 in. H
 - 12 in. W x 7 3/4 in. H
 - 12 in. W x 11 3/4 in. H
 - 15 5/8 in. W x 7 3/4 in. H
 - 15 5/8 in. W x 15 3/4 in. H
 - 16 1/2 in. W x 2 3/8 in. H
 - 16 1/2 in. W x 4 3/4 in. H
 - 16 1/2 in. W x 7 3/4 in. H
 - 16 1/2 in. W x 15 3/4 in. H
 - 24 in. W x 2 3/8 in. H
 - 24 in. W x 4 3/4 in. H
 - 24 in. W x 7 3/4 in. H
 - 32 in. W x 7 3/4 in. H
 - 48 in. W x 7 3/4 in. H

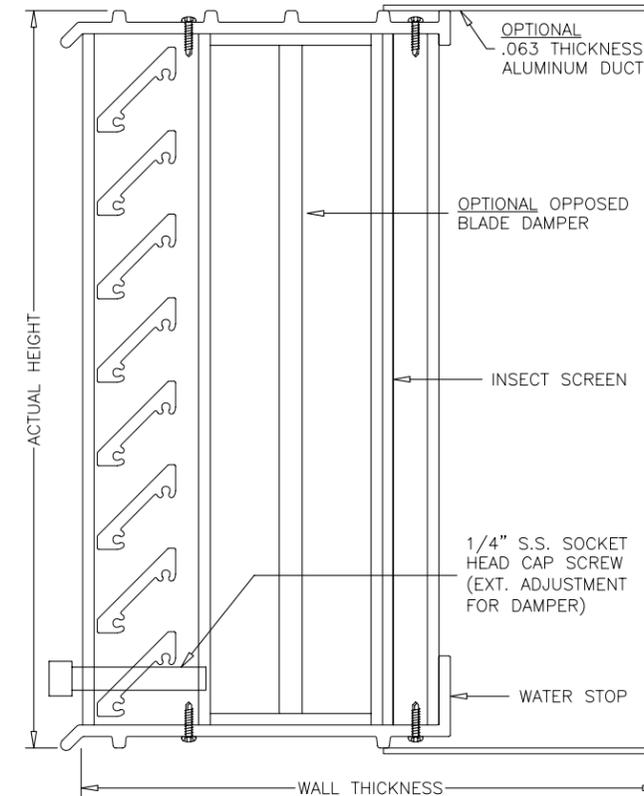
Options (at additional cost)

- Opposed blade damper
(0.063 in aluminum for up to 18 in. wall thickness)
- Straight duct
(0.063 in aluminum for up to 18 in. wall thickness)
- A variety of architectural finishes including:
 - Mill
 - Integral color anodize (medium or dark bronze only)
 - Baked enamel paint
 - Kynar paint



*Width dimension in actual. Height dimension 1/4 in. greater due to mortar ribs.

OPTION DRAWINGS



FINISHES

Finish Type	Description/Application	Color Selection	Standard Warranty (Aluminum)
2-coat 70% KYNAR 500®/HYLAR 5000® AAMA 2605 – Dry film thickness 1.2 mil. (AKA: Duranar®, Fluoropon®, Trinar®, Flouropolymer, Polyvinylidene Fluoride, PVDF2)	“Best.” The premier finish for extruded aluminum. Tough, long-lasting coating has superior color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.	Standard Colors: Any of the 24 standard colors shown can be furnished in 70% or 50% KYNAR 500®/HYLAR 5000® or Baked Enamel.	10 Years (Consult Greenheck for availability of extended warranty)
2-coat 50% KYNAR 500®/HYLAR 5000® AAMA 2604 – Dry film thickness 1.2 mil. (AKA: Acroflur®, Acrynar®)	“Better.” Tough, long-lasting coating has excellent color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.		5 Years
Baked Enamel AAMA 2603 – Dry film thickness 0.8 mil. (AKA: Acrabond Plus®, Duracron®)	“Good.” Provides good adhesion and resistance to weathering, corrosion and chemical stain.	Medium or Dark Bronze	1 Year
Integral Color Anodize AA-M10C22A42 (>0.7 mil)	“Two-step” anodizing is produced by following the normal anodizing step with a second, colorfast process.		5 years
Clear Anodize 204 R-1 AA-M10C22A31 (0.4-0.7 mil)	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	1 Year
Industrial coatings	Greenheck offers a number of industrial coatings such as Hi-Pro Polyester, Epoxy, and Permatecor®. Consult a Greenheck Product Specialist for complete color and application information.		Consult Greenheck
Mill	Materials may be supplied in natural aluminum or galvanized steel finish when normal weathering is acceptable and there is no concern for color or color change.		n/a

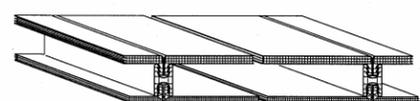
Finishes meet or exceed AAMA 2605, AAMA 2604, and AAMA 2603 requirements. Please consult www.greenheck.com for complete information on standard and extended paint warranties. Paint finish warranties are not applicable to steel products.

THE MOST COMPLETE, VERSATILE AND DESIGNER FRIENDLY TRANSLUCENT SYSTEM AVAILABLE TODAY



The CPI Danpalon® Nano-Cell® patented, standing seam dry-glazed system, is available in a variety of daylighting configurations suitable for different requirements and applications as illustrated below:

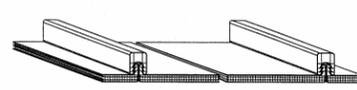
Quadwall® System
2.75" (70mm) U = 0.23*
(w. batt insul. U = 0.08 - 0.18)*



The preferred system for daylighting over enclosed climate controlled spaces. Quadwall® is an assembly of two Nano-Cell® panels containing a total of seven isolated air spaces. The two-layer design empowers the architect with increased control over light, solar transmittance, colors and insulation levels. Quadwall® provides superior performance for the cost over any competitive material. The patented standing seam connector allows the efficient addition of a second layer at marginal extra cost.

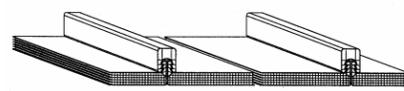
Double layer of protection. The two layers of glazing provide redundant protection of the covered space. The Quadwall system's longevity can be extended indefinitely by replacing exterior glazing panels without exposing the building's interior. In comparison, adding or replacing a double layer on other glazing systems would require significant extra cost, and any damage to the exterior face would require intensive repairs that would interrupt the building's function.

Pentaglas® 12 System
0.47" (12mm) U = 0.48*



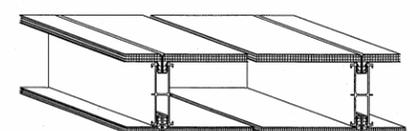
Homogeneous insulating single panel with **three layers of isolated air spaces** and Nano-Cell® spacing due to smaller spans between rib supports (0.16"x0.16"). This panel style uses Nano-Cell® technology for superb performance. Insulating values are comparable to 1" insulated glass but at a reduced cost and weight.

Pentaglas® 16 System
0.63" (16mm) U = 0.38*



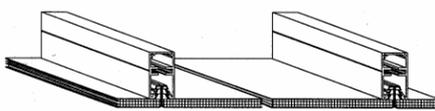
Homogeneous insulating panel with **five layers of isolated air spaces** and Nano-Cell® spacing due to smaller spans between rib supports (0.16"x0.16"). Extraordinary insulation value comparable to bulky insulated fiberglass panels. Offers improved spanning capabilities and unequalled architectural appeal.

Quadwall® Longspan System
4" (102mm) U = 0.22 - 0.23*
(w. batt insul. U = 0.08 - 0.18)*



All of the advantages of the Quadwall® system with the addition of aluminum H connectors, allowing the greatest spanning capability. Available in Class "A", Class "B" and Class "C" fire rated roof assembly listings.

Pentaglas® 12mm, 16mm Longspan
0.47" (12mm) U = 0.48*



All of the advantages of the Pentaglas® system with the addition of aluminum battens, allowing increase spanning capability. Choice of batten accent finishes available to enable a variety of designs.

Protected by US Patent #'s: 6,164,024 - 5,437,129 - 4,573,300 - 5,348,790 - 5,387,456 - 5,895,709 - 6,499,255 and patents pending

INTRODUCTION TO CPI TRANSLUCENT PANEL SYSTEMS

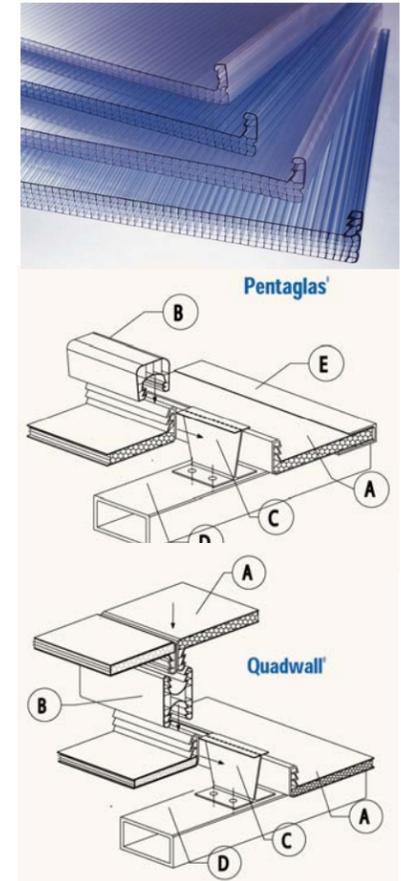
CPI Translucent Daylighting systems, including Pentaglas® and Quadwall®, incorporate the Danpalon® Nano-Cell® patented standing-seam polycarbonate panels.



The Heart of the System – the Nano-Cell® Difference

What makes the CPI panels' performance unique and effective is the heart of the system. The Nano-Cell® system by CPI consists of:

- A. Main polycarbonate panels 2' nominal widths, extruded with Nano-Cell® technology and with standing seam, 5/8" (115mm) upstands protruding 90° to the panel face
- B. Grip-lock double tooth design of snap-on and interlocking dry-glazed profiles
- C. Concealed patented HD stainless steel and aluminum retention clips utilizing continuous top flanges.
- D. Structural supporting systems
- E. Variety of perimeter aluminum engagement profiles

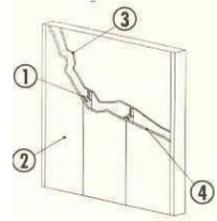


The fully assembled system is free-floating. Every component is free to thermally expand or contract at its own rate along the X, Y & Z axis, eliminating oil canning and delamination difficulties and allowing the material to retain structural properties over the life of the skylight. Structural movement is absorbed within the flexible nature of the system, making skinning directly to steel or wood structures possible.

The entire assembly uses no caulking or adhesives for its performance, eliminating the difficulty of sealant and adhesive bond failure common in traditional systems. The Danpalon® system connection and weather seal is mechanical, dry, and 100% effective.

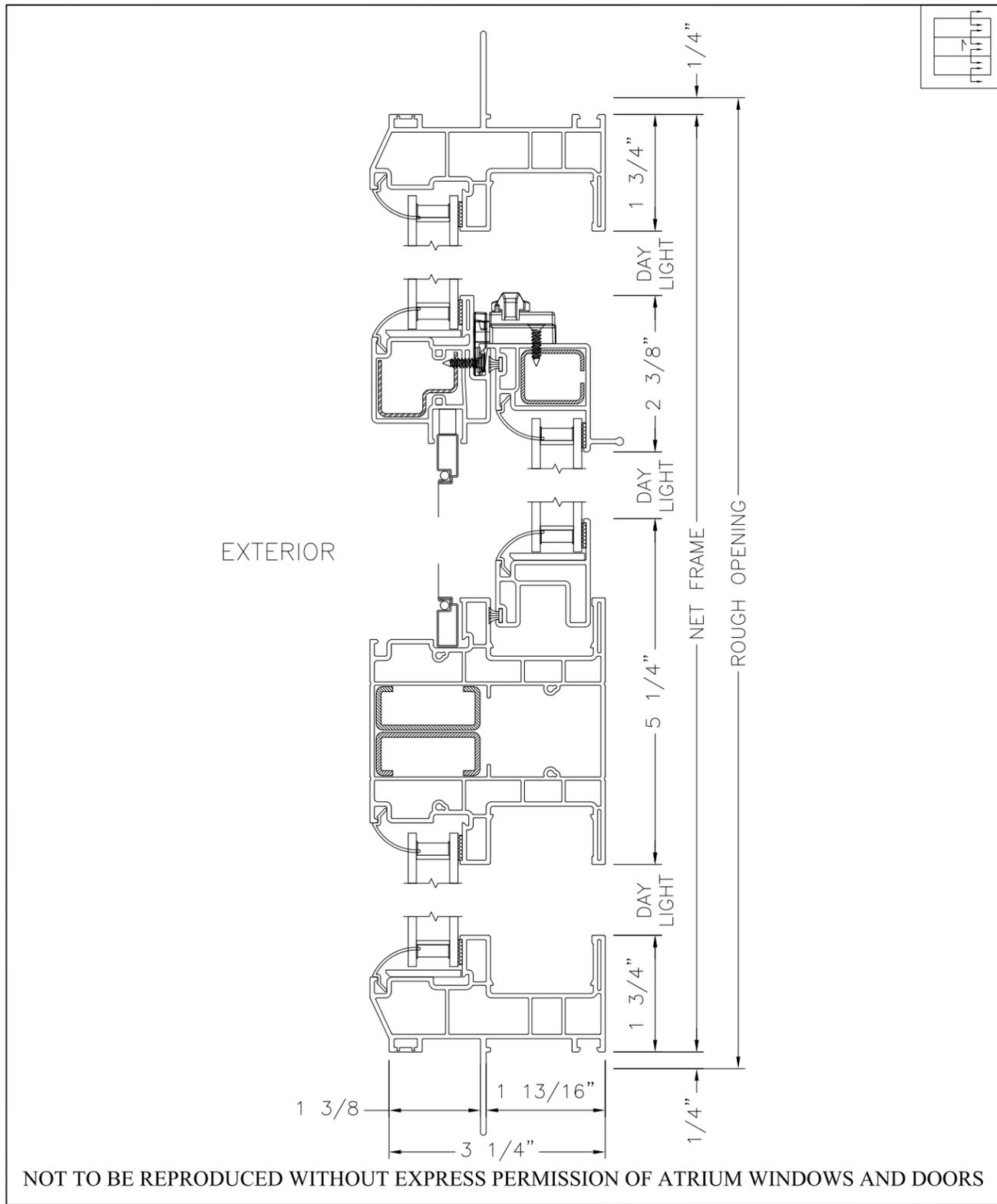
The System May be Panelized

Quadwall® Panelized Unit

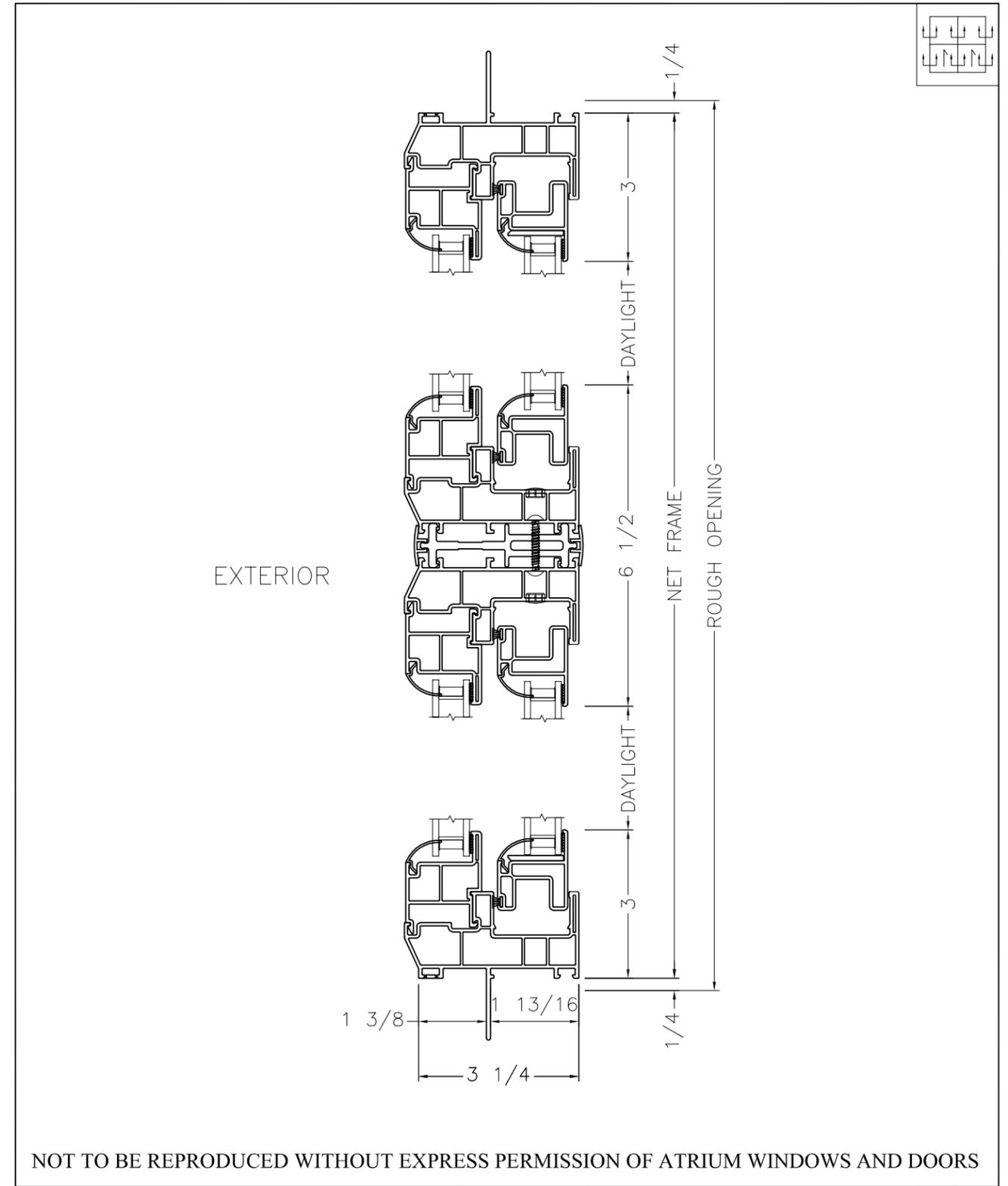


- 1. Standing seam dry-glazed joint - eliminates need for adhesive bond
- 2. Co-extruded super weathering architectural face – eliminates need for periodic resurfacing
- 3. Prismatic Nano-Cell® truss-like "Smart" design – eliminates need for batt insulation
- 4. 0.4" self-supporting face – eliminates need for internal aluminum grid supports

Protected by US Patent #'s: 6,164,024 - 5,437,129 - 4,573,300 - 5,348,790 - 5,387,456 - 5,895,709 - 6,499,255



<p>9000 Series, Single Hung/Picture T-Mull Vertical Section Scale: 1/2 Scale</p>		<p>Drawing name: 9000SH_9.dwg Date: 9/13/12 Drafted by: CDY</p>
<p>Atrium Windows and Doors, 3400 Tacoma Street, Union Gap, Washington, 98903.</p>		



<p>9000 Series, Single Hung, Mullion Horizontal Section Scale: 3/8 Scale</p>		<p>Drawing name: 9000SH_13.dwg Date: 5/9/14 Drafted by: CDY</p>
<p>Atrium Windows and Doors, 3400 Tacoma Street, Union Gap, Washington, 98903.</p>		

Tess O'Brien Apartments

Products & Site Furnishings



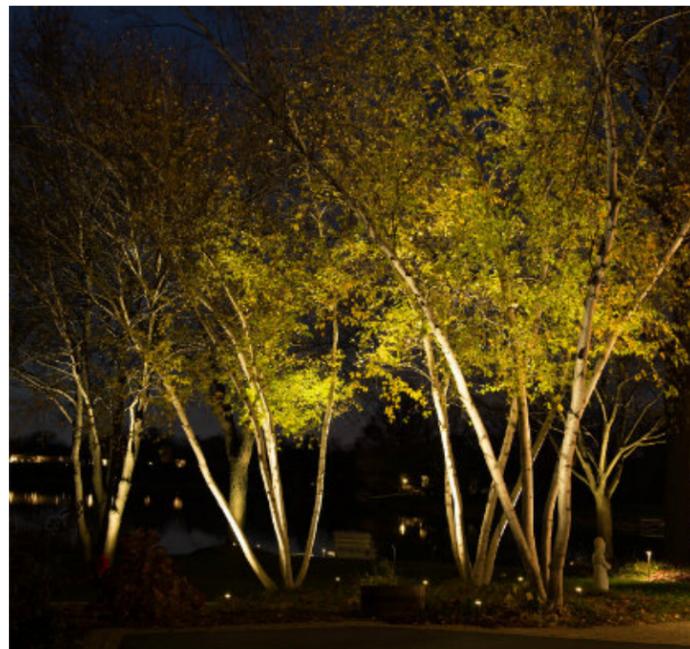
Type 1 Pavers- Mutual Materials
Holland Pavers- Charcoal



Type 2 Pavers- Mutual Materials Holland Pavers- Light gray with
Charcoal Border



Cedar Fence with horizontal slats



Uplighting on trees



Upright fixtures- FX Luminaire
MP-20



Steel Firetable

Tess O'Brien Apartments

Plant Palette



Boxwood



Espallier 'Yuletide' Camellia



'Summer Ice' Daphne



'Schottland' Tufted Hairgrass



Dwarf 'Hameln' Fountaingrass



Red Alder- storm planters



Swedish Aspen



'Regal Prince' Oak



Yellow-Grove Bamboo



'Emerald' Arborvitae



Variegated Spanish
Dagger Yucca



Japanese Sedge & Tufted Hairgrass-
stormwater planters



Japanese Pachysandra