

From: Scala, Mary Joy
Sent: Monday, May 22, 2017 1:33 PM
To: 'Jeff Dreyfus'; Levien Jeff
Subject: BAR Action- 512-514, 600 West Main Street- May 16, 2017

May 22, 2017

RE: Certificate of Appropriateness Application
BAR 16-01-04
512-514, 600 West Main Street
Tax Parcel 290007000, 290006000, and 290008000
Heirloom West Main Development LLC, Owner/Heirloom West Main Development LLC, Applicant
Final Details

Dear Applicant,

The above referenced projects were discussed before a meeting of the City of Charlottesville Board of Architectural Review (BAR) on May 16, 2017. The following action was taken:

Schwarz moved: Having considered the standards set forth within the City Code, including City Design Guidelines for New Construction, Rehabilitations, and for Site Design and Elements, I move to find that the proposed final details satisfy the BAR's criteria and are compatible with this property and other properties in the West Main Street ADC District, and that the BAR approves the plan as submitted, with the stipulations that the BAR will review the lighting and the final metal finish in the field; signage to come back later; VLT 60 on south side only and VLT 70 everywhere else (the exception was approved because the south, rear façade faces an unbuildable site and no pedestrian activity would come close to it).

Balut seconded.

Approved 8-1 with Miller opposed.

This certificate of appropriateness shall expire in 18 months (November 16, 2018), unless within that time period you have either: been issued a building permit for construction of the improvements if one is required, or if no building permit is required, commenced the project. The expiration date may differ if the COA is associated with a valid site plan. You may request an extension of the certificate of appropriateness before this approval expires for one additional year for reasonable cause.

If you have any questions, please contact me at 434-970-3130 or scala@charlottesville.org.

Sincerely yours,

Mary Joy Scala, AICP
Preservation and Design Planner

**CITY OF CHARLOTTESVILLE
BOARD OF ARCHITECTURAL REVIEW
STAFF REPORT
May 16, 2017**



Certificate of Appropriateness Application

BAR 16-01-04

512-514, 600 West Main Street

Tax Parcel 290007000, 290006000, and 290008000

Heirloom West Main Development LLC, Owner/Heirloom West Main Development LLC, Applicant
Final Details

Background

512-514 West Main Street

The Hartnagle-Witt House (1884) is a contributing structure in the West Main Street ADC district. It is a Vernacular, 2 story, 6-bay, double-pile duplex house with a more recent one-story diner addition on the façade. Each rental property had an entrance in the center bay of its half of the façade, which are now located inside the diner. Built c 1951, the diner first covered 4 bays, but was extended west to cover 5 bays in 1961-62. It operated first as the Waffle Shop, and currently as the Blue Moon Diner. This property is one of the two remaining vernacular dwellings built along West Main Street in the last half of the 19th century.

August 15, 2006: Applicant presented several renovations for the building.

The BAR voted unanimously (9-0) to approve the application with the conditions that the elevated roof will not be built as part of this proposal; all the windows on the front of the diner will remain the same size; and City staff will administratively review for approval the revised counter design.

600 West Main Street

The Hawkins-Perry House (1873) is a contributing structure in the West Main Street ADC District. It is a Vernacular, 2 story, 3 bay, single-pile house, built by James Hawkins, a Ridge Street resident, probably as a rental house. A one-story rear addition covering the western two bays was original to the house. A second story was added to this addition before 1896. A porch to the east was then expanded to two stories with a hip roof matching the one beside it.

Cecil Perry added the store to the front in 1931, and operated the Midway Cash Grocery for 30 years. His family lived above the store. In recent years it was a restaurant, and currently a convenience store. This property is one of the two remaining vernacular dwellings built along West Main Street in the last half of the 19th century.

August 19, 2008: The applicant proposed to obtain permission to allow three soda vending machines and one ice box in front of the building. The applicant also requested permission to locate a propane gas case on the east side of the building. The BAR denied (8-0) the application as submitted.

November 17, 2015 - This application was discussed as a preliminary discussion which requires no motion. The BAR was not in favor of the demolition of the two structures because of their age, they provide scale, they relate to other historic buildings nearby, and they help tell the story of how West Main Street developed from residential to commercial.

January 19, 2016 - The BAR approved (8-0) only the removal of the rear frame additions to 512-514 West Main Street, and the removal of the front second floor addition to 600 West Main Street s, as submitted.

The BAR accepted (8-0) the applicant's request for deferral of the application for a new mixed-use building.

February 17, 2016 - The BAR approved (7-1 with Miller opposed) only the massing and siting as submitted.

July 19, 2016 - No action was taken; the BAR made comments, some of which are summarized here:

General

- Great presentation
- Generally, keep it simple.

Frontispiece needs work

- The box proper is great, but have reservations about the piece that comes forward.
- Needs to be more subtle in terms of scale. Rear building could be graphite but front building needs more life.
- The commercial streetfront needs more pizzazz.
- Front building has a lot going on but lacks human understanding.
- Work on frontispiece- scale more subtle; more lively

Materials and color

- Too industrial and gloomy for W Main Street; sharp edges, cold materials
- Prefer light nighttime view but not sure it shows what you intended
- Like red Corten; not black; struggling with vertical metal panels; need to warm it up.
- Use darker color where you want it to recede, like on north wall
- Too much contrast; too busy and hard.
- Prefer current blue of Blue Moon Diner, and color of Gabe's buildings on West Main. This is multiple shades of graphite.
- Lean towards #16.2 – less contrast; like razor's edge between stories; like combination of perforated metal and fiber cement.
- Like it all the same color
- Less contrast reduces jarring effect
- 16.3 version is massive, brooding

Historic buildings

- The rear building should be a backdrop for the two historic buildings; like use of Corten
- Like historic buildings – creating backdrop

Windows and rooftop appurtenances

- Open to continuing discussion about vinyl or fiberglass but would set a precedent – prefer aluminum clad.
- Rooftop appurtenances as shown not a problem.

September 20, 2016 - the BAR approved (7-2, with Schwarz and Earnst opposed) only the proposed zinc panels, metal rain screen, Corten metal entries, Hardie panels and substitute Hardie panel (for the first floor), and window frames as submitted. The following items must be reviewed for final approval to included, but not limited to, the glass in the windows, the final rail details, the cross sections, any signage, a lighting plan, and all site conditions. The BAR approves the direction in which the applicant has taken the elevations, in terms of dispositions of the screen and vertical tracking, dated 9/20/2016.

November 15, 2016 - The BAR took no action. The applicant did not request a motion – discussion only.

- In general the BAR liked the direction of the courtyard with lots of greenery rather than a purely utilitarian use.
- The green walls are fine but they want assurance that it won't damage the historic structures.
- The zelcova tree could be replaced with something better such as a nice size street tree in that same spot or vicinity.
- Reconsider planters by front door – existing benches do a better job activating the street.
- They really like the idea of dining above the Blue Moon.

December 20, 2016 - The applicant requested feedback on the streetscape plan. The BAR members like the planters and benches, but there is a pinch point created, they recommended using a tree grate, or maybe narrower bench or shorter planters. They wanted to know what is West Main consultant's design minimum width for sidewalks? The BAR also suggested looking at changing swing of entry door and making specialty pavement permeable.

March 21, 2107- The BAR approved ((6-1, with Schwarz opposed) the proposed material changes to siding panels. They approved the substitution of zinc panels on all facades with the painted aluminum panel (the

color and texture to be determined) and on the south façade also approved the substitution of the zinc metal panels with the light grey Hardie panel as presented.

April 18, 2017- The BAR approved (7-0) the proposed final details submitted which included:

- Concrete paving as drawn on the landscape plan
- Lighting approved in concept (We need a final plan and to field test before final approval)
- Rehabilitation specifications which include:
 - Interior changes and demolitions
 - Removal of the addition on the second floor of the mini mart building, and other exterior details
 - Repair of windows, brick walls, and the metal roof on the Blue Moon building
 - Repainting brick walls that are currently painted and the metal roof
 - New half-round gutters
 - Replacement of windows to match existing
 - New Corten wall on the back of the Blue Moon building
 - Addition of guard rails as needed

The BAR also asked for minor changes to the landscape plan by:

- **Eliminating the blue fescue**
- **Switching the specified Elm to a disease-resistant American Elm**
- **Adding a tree grate**
- **Verifying the proposed vine twines vs clings**

Finally, the BAR deferred the following items for further information:

- **Glazing [including a sample of the glass]**
- **Final layout and additional studies for mechanical units**
- **Bike racks**

The BAR also approved the window [in the east bay of house behind Blue Moon Diner] with specifications made to match the window above.

Additional background information:

This is a new, by-right mixed-use building to be built on three parcels. Two of the three parcels contain a contributing structure: 512-514 West Main Street (the Hartnagle-Witt House with Blue Moon Diner front addition) and 600 West Main Street (the Hawkins-Perry House with convenience store front addition) are proposed to be incorporated into the scheme.

Additions to both buildings were approved by the BAR in January to be removed: the frame rear additions to 512-514 West Main Street, and the second floor front addition to 600 West Main Street. The (non-contributing) rear freestanding block garage behind 512-514 West Main Street (1954) is also proposed to be removed.

The West Main Street South zoning district was recently amended (to West Main Street East) to require lower 52' building heights and other modifications for the reason to better protect the smaller scale historic resources located there. However, the applicant received BAR approval for massing and siting, and also received preliminary site plan approval prior to the change in zoning. *The BAR should review this application under the previous West Main South Corridor zoning regulations.* West Main Street South Corridor zoning required 15-20 ft. setback; height 40-70 feet by right; streetwall 25 -60 feet with minimum 2 interior floors; with minimum 10 ft. stepback at top of streetwall.

The new building will contain ground floor retail, mixed use, and residential units. (The rooftop lounge and appurtenance level has been eliminated, except for the elevator/ core; a newly added stair penthouse, and privacy wall for two rooftop terraces.) The new building consists of six stories (67'-8"). The building is set back approximately 18 feet from the Hartnagle-Witt House and 14'-3" from the Hawkins-Perry House. (Note: The Courtyard drawing is not dimensioned.) There is now an entrance to the residential lobby between the

Hartnagle-Witt House and the new construction to the east. There is an entrance to the courtyard between the two historic houses.

On the West Main Street frontage there is a minimum required 15' building setback. The proposed 3-4 story streetwall is 34'- 11" and 45'-8' tall. There is an additional stepback after the fifth floor. The building is built to the property lines on the east, west and south sides. The east and west facades at the property lines will be articulated with changes in materials and relief, and some fire rated windows have been added.

The basement parking level has 22 spaces. There is bike storage in the garage level and next to the lobby. The garage driveway entrance faces West Main Street.

Application

The massing and siting was approved in February 2016. Certain materials were approved in September 2016. Changes in materials were approved in March 2017. A portion of the final details were approved in April 2017.

The applicant is requesting approval for the remaining final details and has submitted the items recommended in the April 2017 Action (excluding signage). The submission includes the following:

- Specifications about the visibility of rooftop mechanical units
- Blue Moon Diner north elevation showing the new window to replace the existing entry door at the northwest upper landing; new window to match existing second floor windows.
- Final exterior lighting plan
- Landscape modifications:
 - eliminate the blue fescue
 - switch specified Elm to a disease-resistant American Elm.
 - add a tree grate
 - verify the proposed vine twines vs. clings; it clinging, propose alternate
- Specification for bike racks
- Glazing samples for final approval (They are seeking approval for 71% VTL for north, east and west elevation; 50% VTL for south elevation. The BAR standard is minimum 70% VTL.)

Criteria, Standards. and Guidelines

Review Criteria Generally

Sec. 34-284(b) of the City Code states that,

In considering a particular application the BAR shall approve the application unless it finds:

- (1) That the proposal does not meet specific standards set forth within this division or applicable provisions of the Design Guidelines established by the board pursuant to Sec.34-288(6); and*
- (2) The proposal is incompatible with the historic, cultural or architectural character of the district in which the property is located or the protected property that is the subject of the application.*

Standards for Review of Construction and Alterations include:

- (1) Whether the material, texture, color, height, scale, mass and placement of the proposed addition, modification or construction are visually and architecturally compatible with the site and the applicable design control district;*
- (2) The harmony of the proposed change in terms of overall proportion and the size and placement of entrances, windows, awnings, exterior stairs and signs;*
- (3) The Secretary of the Interior Standards for Rehabilitation set forth within the Code of*

Federal Regulations (36 C.F.R. §67.7(b)), as may be relevant;
(4) The effect of the proposed change on the historic district neighborhood;
(5) The impact of the proposed change on other protected features on the property, such as gardens, landscaping, fences, walls and walks;
(6) Whether the proposed method of construction, renovation or restoration could have an adverse impact on the structure or site, or adjacent buildings or structures;
(8) Any applicable provisions of the City's Design Guidelines.

Pertinent Guidelines

Please refer to the following sections of the ADC Guidelines, many of which apply to this project:

- II Site Design and Elements**
- III New Construction and Additions**
- IV Rehabilitations**
- VI Public Design & Improvements**
- VII Demolition and Moving**

Recommendations and Discussion

The applicant has submitted all of the materials requested by the BAR in April, except the BAR should clarify whether the building lighting has been approved.

Staff thought it had been approved in concept but the BAR wanted *a final plan, and a field test* before final approval. A field test may be appropriate to adjust lighting levels after the lighting is installed, but the final plan for lighting must be approved before the building permit may be issued.

The following items will be submitted at a later date:
Signage and signage lighting

BAR Checklist for New Construction

1. Massing drawings in context **(massing approved February 2016)**
2. Dimensioned elevation drawings and color perspectives in context **(approved the direction in which the applicant has taken the elevations, in terms of dispositions of the screen and vertical tracking, dated 9/20/2016.)**
3. Materials and colors (materials samples) for:
Walls, roof, foundation, cornice, trim, windows (minimum 70 VLT specifications for clear glass), appurtenances, doors, garage doors, storefronts, balcony railings, canopies **(approved September 2016 zinc panels, metal rain screen, Corten metal entries, Hardie panels and substitute Hardie panel for the first floor, and window frames as submitted. Substitute materials for the zinc panels were approved March 2017.) (Approved April 2017, except Glazing samples submitted for May 2017 meeting)**
4. Details:
Wall sections **(Approved April 2017)**
5. Site/landscape design:

Site walls and fences (height, material), paving materials, species of trees and additional plantings, patio furniture including umbrellas, tents , patio railings, decking, pergolas, awnings

(General siting approved February 2016) (Approved April 2017 with minor changes submitted in May 2017)

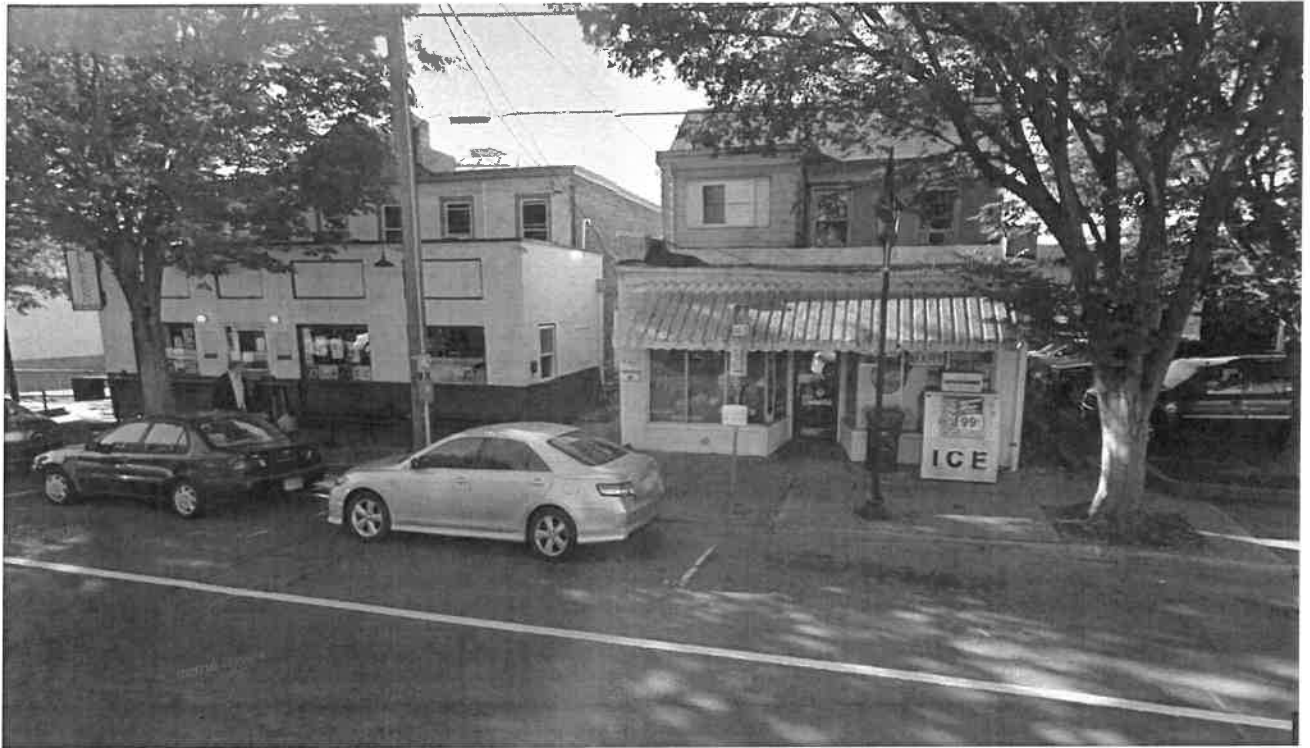
6. Lighting: site and building (fixture cut sheets, mounting height, dark sky, color of light) **(Approved in concept April 2017; landscape lighting re-submitted for May 2017)**
7. Signage: Locations and general sizes for building name (1) and retail spaces (2 each)
8. Mechanical units: rooftop and ground locations; screening; transformer locations; restaurant vents **(Re-submitted for May 2017 meeting)**

Checklist for Rehabilitations

1. Metal roof details: pan width, seam height, no ridge vents, material, color or finish
Philadelphia gutter repair **(April 2016 - No change proposed to metal roof)**
2. Brick: Do not paint unpainted masonry; correct mortar choice **(April 2016 Drawing correctly notes "paint to match existing colors; unpainted brick to remain unpainted")**
3. Window repair or replacement (cut sheets, light pattern, clear glass, opening size, trim) **(Approved in concept April 2017, elevation submitted May 2017)**
Other repairs or replacements: Note any changes to design, materials, colors **(Approved April 2017)**
4. Additions or attachments (See new construction above) **(Approved April 2017)**

Suggested Motion:

Having considered the standards set forth within the City Code, including City Design Guidelines for New Construction, Rehabilitations, and for Site Design and Elements, I move to find that the proposed final details satisfy the BAR's criteria and are compatible with this property and other properties in the West Main Street ADC District, and that the BAR approves only the plan as submitted, (or with the following modifications...).





565 US-250 BUS
Charlottesville, Virginia
Street View - Oct 2015

Blue Moon Diner

- revised north elevation to show new window to replace existing entry door; new window to match existing, second story window above in size and configuration; construction of new window to be aluminum-clad wood.
- Lowered mechanical screen at second floor dining terrace to align with guardrail around rest of terrace.
- Noted half-round gutters around the roof.

Final Exterior Lighting

- courtyard lighting has been revised to align with the courtyard planting plan.
- A spec is now included for the low level lights surrounding the circular seating area at the west end of the courtyard – it's whimsical.
- Color temperature for exterior lighting:
 - o 3500K with good R9 color rendering at perforated screens at residential terrace railings, on the perforated panels of the garage door and on the perforated panels next to the garage door (on either side of the new retail entrance).
 - o 2700K for all other lights.

The rationale for the above is:

The warm, corten entry portals would be illuminated using a 2700K light source with a warmer light to emphasize the entry portal and identify the pedestrian entries. Additionally, the remainder of the lighting in the courtyard and on the two historic buildings would also have this warm tone to strengthen perceptions of intimacy and relaxation.

The 3500K fixtures (with good r9 rendering) lighting the perforated panels are intended to maintain the rich color of the panels, while denoting a difference between these façade elements and the portals and pedestrian interaction areas.

- As noted at the last BAR meeting, lighting levels will be adjusted once the lighting has been installed and with BAR members present for the adjustment.

Landscape modifications

- eliminated the blue fescue; substituted with Hypericum, aka St. John's Wart. Yellow flower.
- Switched the specified elm to a disease-resistant American Elm.
- Added a tree grate at the new street tree at east end of the site. Grate is the proposed tree grate from the West Main Street streetscape project and as recommended by the City staff.

- Verified that the proposed vine for the wall screen – Passion Flower – climbs via stem tendrils that twine around the screen; it does not climb by clinging.

The bike rack at the small plaza is not included in your package.

Glazing samples or provided. We propose the following:

- 70% VLT for north, east and west elevations.
- 60% VLT for south elevation to reduce heat gain and also glare in the interiors.

Rooftop unit screening is now included. We studied the view from a number of vantage points: Drewery Brown Bridge, 4th floor of the Albemarle Hotel and it could not be seen. When approximating the view from the roof terrace of the Quirk Hotel, it might be visible; thus, we have added mechanical unit screening for all rooftop units on the new structure.

Height of the low wall between the retail plaza and the driveway was studied. The section included in your packet suggests that pedestrians will be visible to drivers exiting the garage, even when in a low-riding car.

We are deferring on signage design and signage lighting with the understanding that this will not prevent us from getting a building permit.



5/09/2017

VIA PDF

Ms. Mary Joy Scala
City of Charlottesville Neighborhood Development Services
City Hall
PO Box 911
Charlottesville VA 22902

Subject: 510-600 West Main Street, Certificate of Appropriateness

Dear Mary Joy,

The attached submission addresses the outstanding issues requiring BAR approval for the Certificate of Appropriateness with the exception of signage and signage lighting. We would like to defer on those issues for a separate BAR presentation. Otherwise, we hope to receive approval of the COA at the BAR's May 16 meeting.

Rooftop Mechanical Units

The BAR requested that we study the visibility of the mechanical units on the roof of the new building from various point in the city.

Attached are five view studies. One is from the Drewary-Brown bridge, three are from the fourth floor of the Albemarle Hotel and the fifth is from the future Quirk Hotel roof close to West Main Street. In these views we have chosen to depict a 5 foot tall mechanical screen.

We have also included a roof plan, A1.17, showing the extent of the screen and a sheet showing the screen detail, A10.5. The material would be perforated painted aluminum to match the perforated screen on the rest of the building.

Landscape

Per the BAR's recommendations we have modified 2 plant species, *Festuca glauca* (blue fescue) changed to *hypericum calycinum* and *Ulmus parvifolia* (bosque elm) changed to *ulmus americana* (American elm). These changes can be seen on L4.0, attached.

A tree grate was added to new street tree. This tree grate was recommended by the city to match what is being proposed in the West Main Street planning. See L2.1 and L3.0.

The landscape architect has confirmed that the *passiflora incarnata* vine proposed for the green screens on the existing buildings is a twining vine. Passion Flower Vine climbs via stem tendrils, which are shoots that grow out of the stems. These will curl around the trellis structure, unlike Boston Ivy which uses adhesive pads to attach to a building wall.

The details of the new benches/planters on West Main have been reviewed and modified for added durability. See L3.1.

We were asked to look at the site line from cars coming out of the parking ramp to pedestrians on the other side of the proposed site wall. See the section diagram attached.

Ms. Mary Joy Scala

We were also asked to provide a cut sheet for the proposed bike racks in the plaza in front of the new retail space, see attached.

Existing Building Renovations

The storefront window replacing the existing door has been changed to match the vinyl double hung window directly above. The height of the window will closely match the original window openings. See A2.50, attached.

Half round gutters have been added and the new mechanical screen between the roof dining area and the mechanical area on the Blue Moon roof has been lowered to match the guardrail height. See A2.50.

The green screen details have been finalized showing an attachment at the base and soffit only, also the screen has been made demountable, as discussed with the BAR in April. See A2.50, A2.51 and A6.50, attached.

Lighting

The landscape lighting plan has been finalized, see L6.0

Glazing

Glass samples will be provided at the meeting on May 16th for the BAR's review.

Thank you for your consideration.

Sincerely,

Whitney Hudson Glick



510-600 WEST MAIN STREET
CHARLOTTESVILLE, VA 22902

BAR SUBMISSION FOR MAY MEETING
SUBMITTED: 05.09.2017

CONTENTS:
ROOFTOP MECHANICAL UNITS
LANDSCAPE
EXISTING BUILDING RENOVATIONS
LIGHTING



ROOFTOP MECHANICAL UNITS

VIEWS FROM CITY

ROOF PLAN

ROOF SCREEN DETAIL











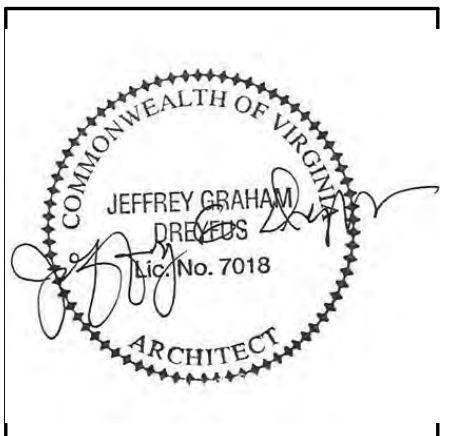
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address:
**510-600 WEST
MAIN STREET
CHARLOTTESVILLE, VA**

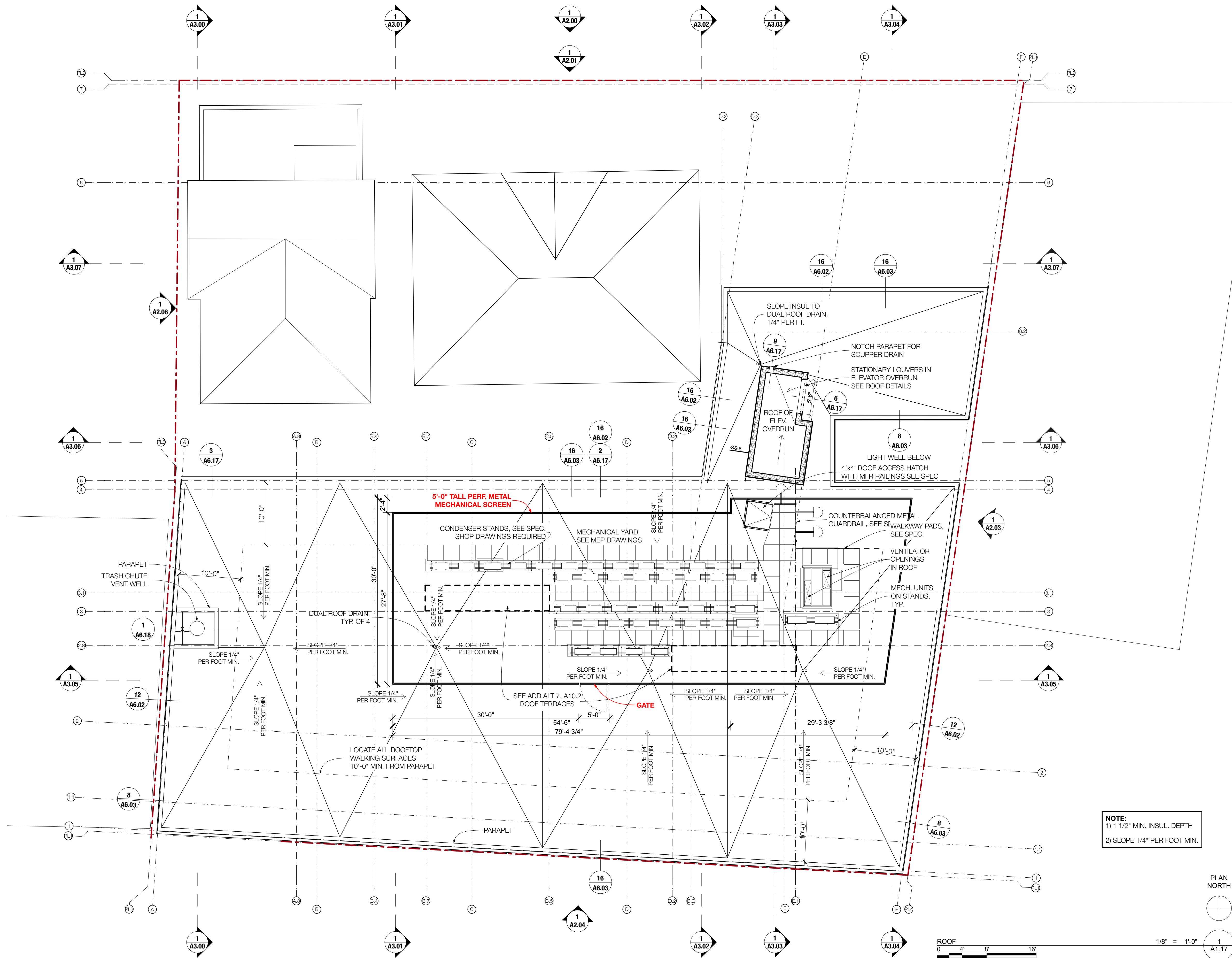
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EDITIONS/REVS
MARK DATE DESCRIPTION

**ROOF PLAN
CONSTRUCTION
DOCUMENTS
04.21.2017**

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A1.17



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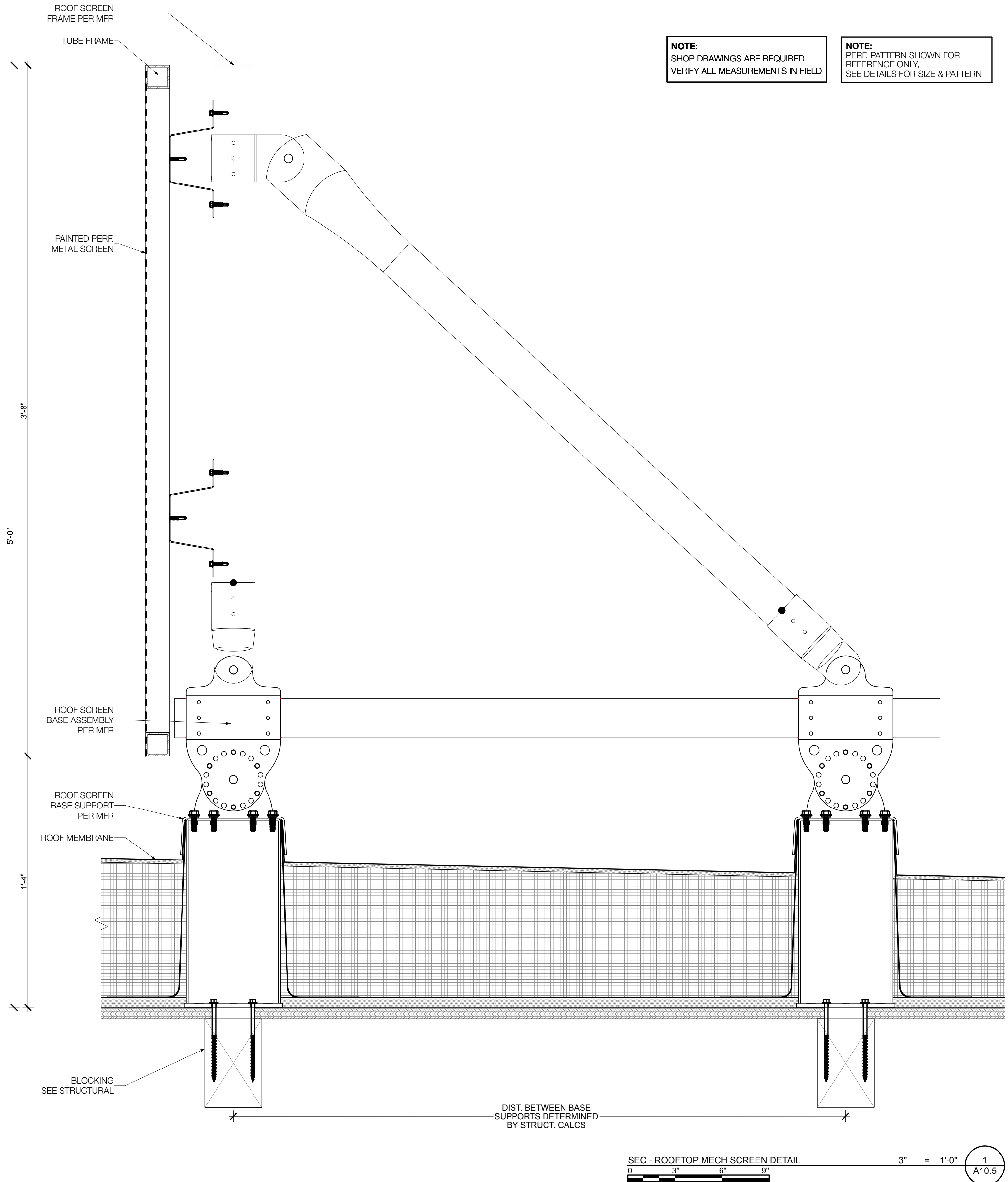
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**ROOFTOP MECH UNIT
SCREEN DETAILS
CONSTRUCTION
DOCUMENTS
04.21.2017**

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A10.5 02



LANDSCAPE

L2.1 STREETSCAPE PLAN

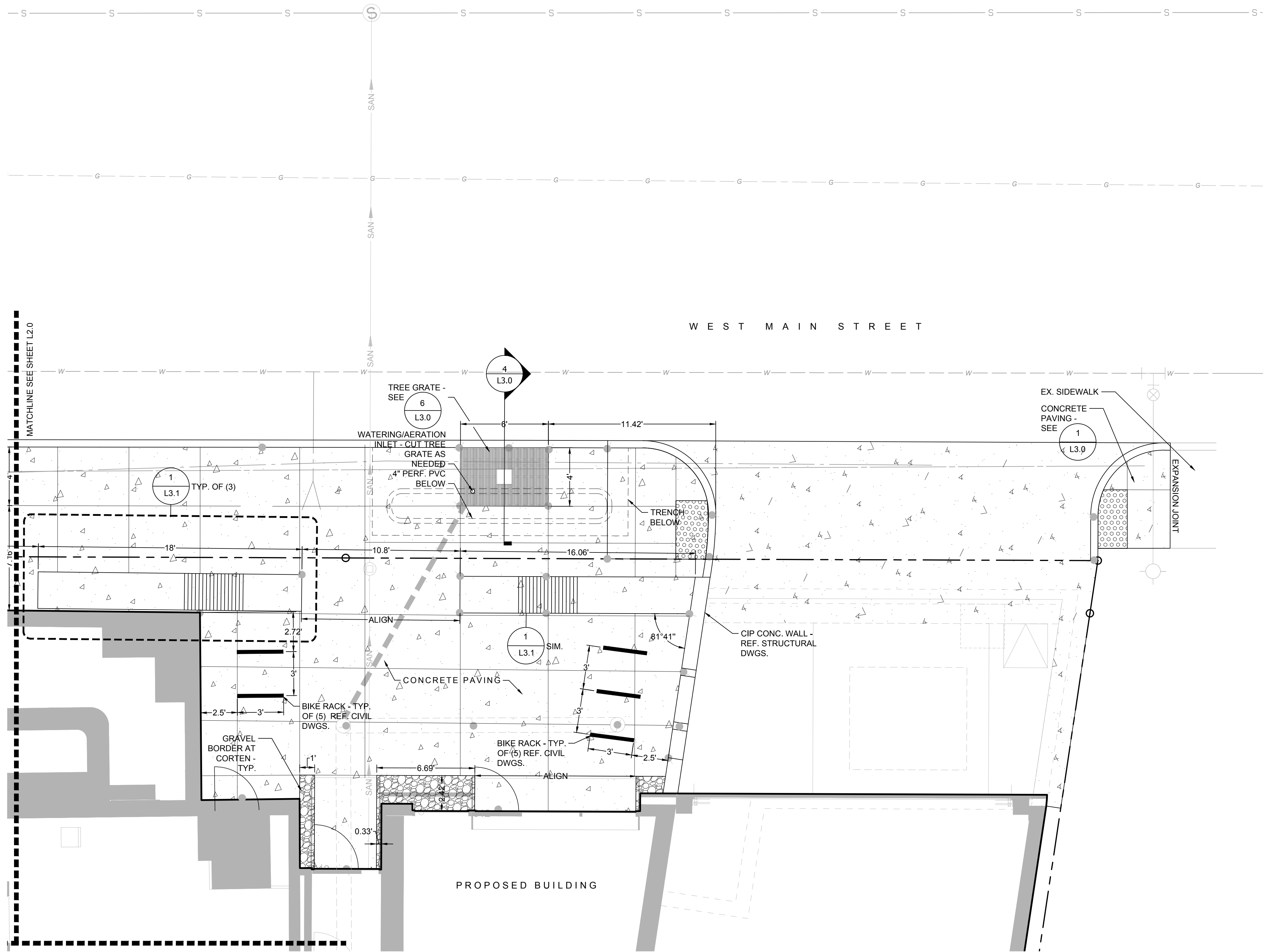
L3.0 DETAILS - TREE GRATE

L3.1 DETAILS - BENCHES

L4.0 PLANTING PLAN

PARKING RAMP SITE LINE STUDY

BIKE RACK CUT SHEET



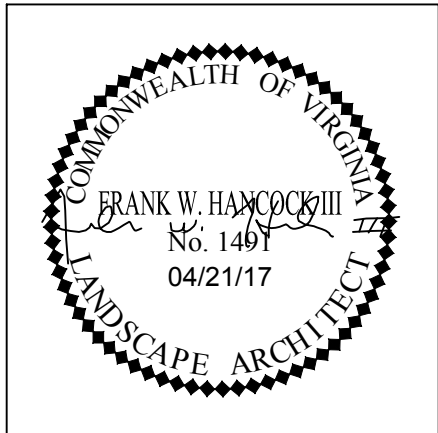
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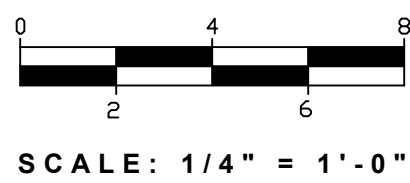
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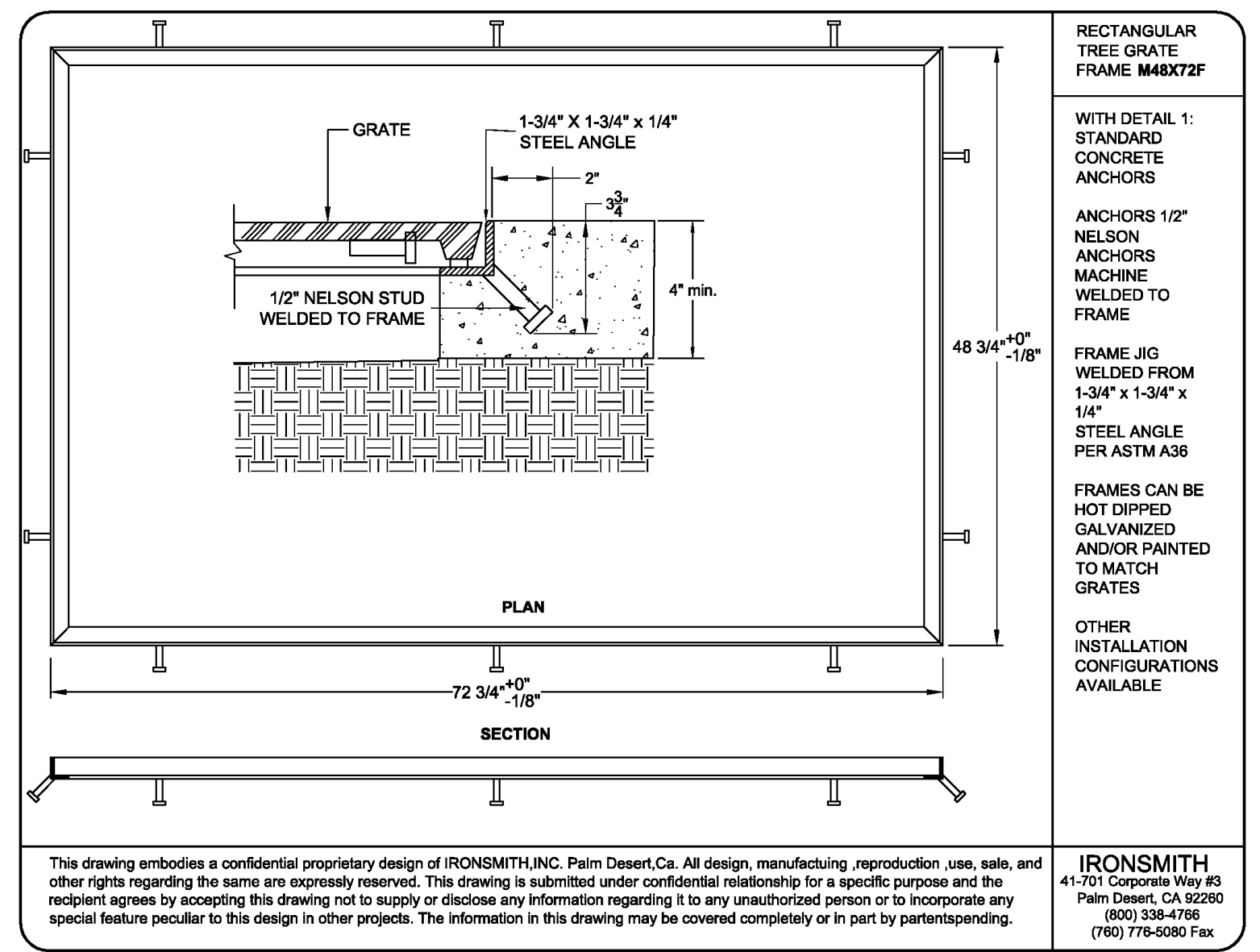
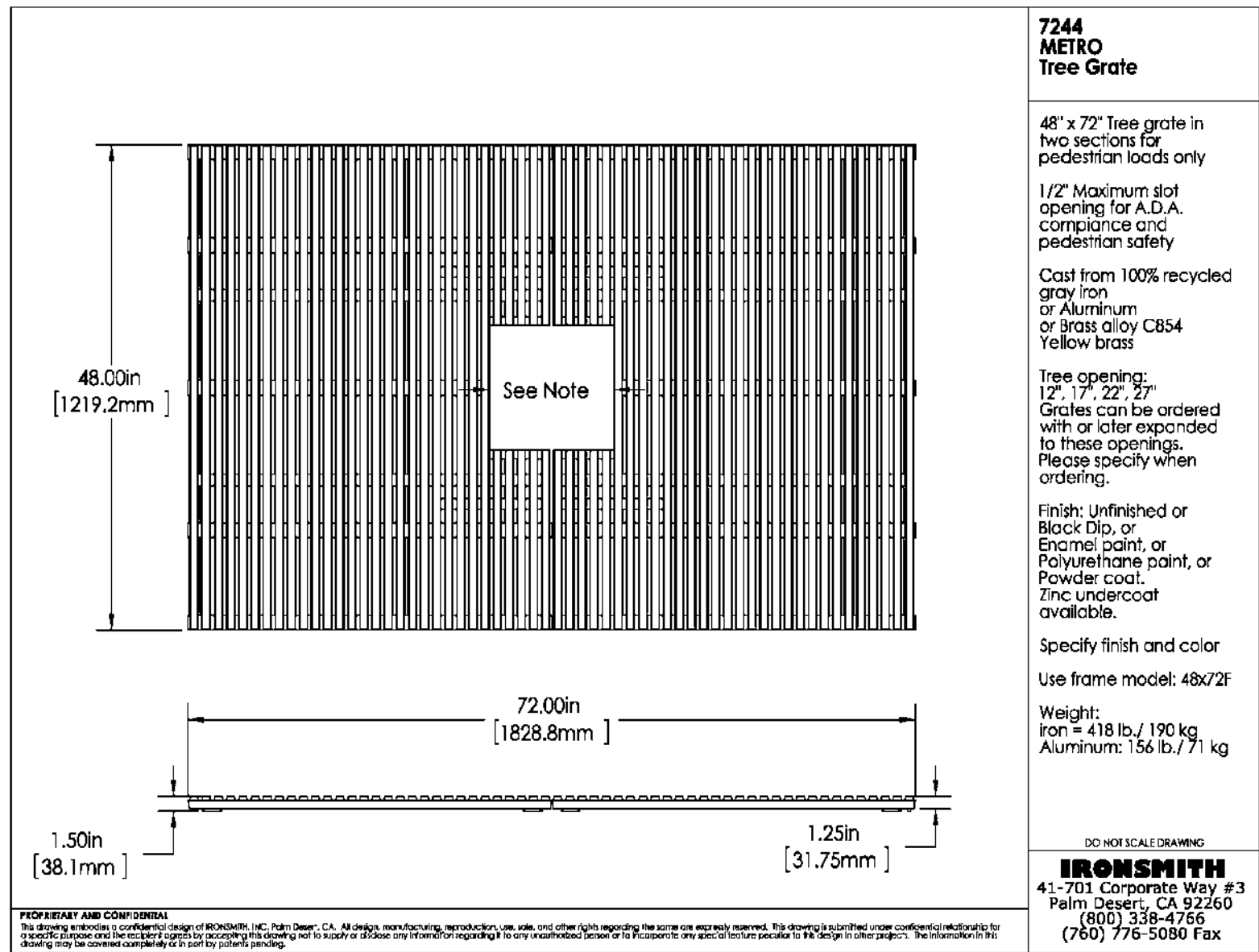
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**STREETSCAPE DETAIL
LAYOUT AND
MATERIALS PLAN**

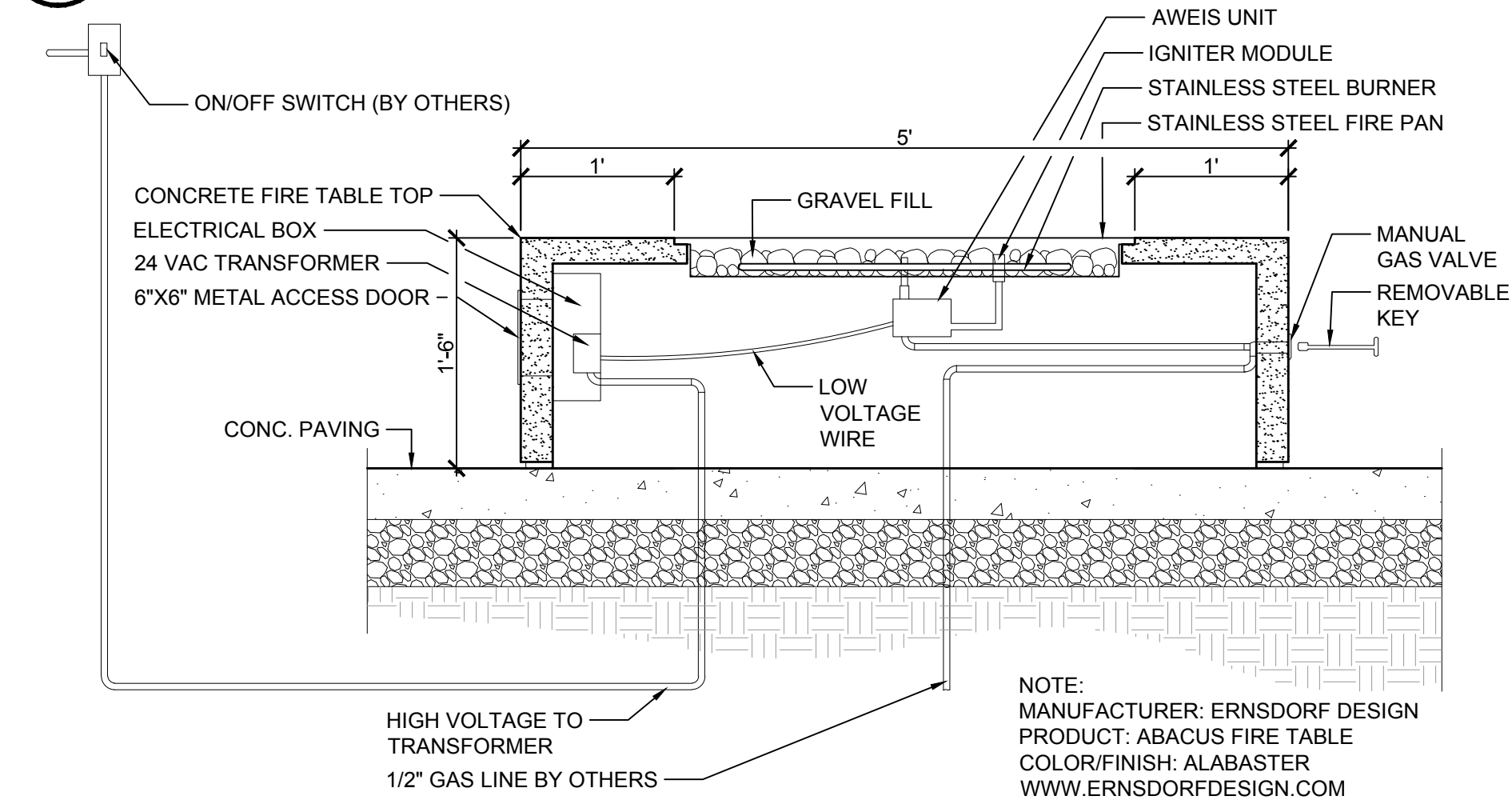
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DOCUMENTS**
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L2.1

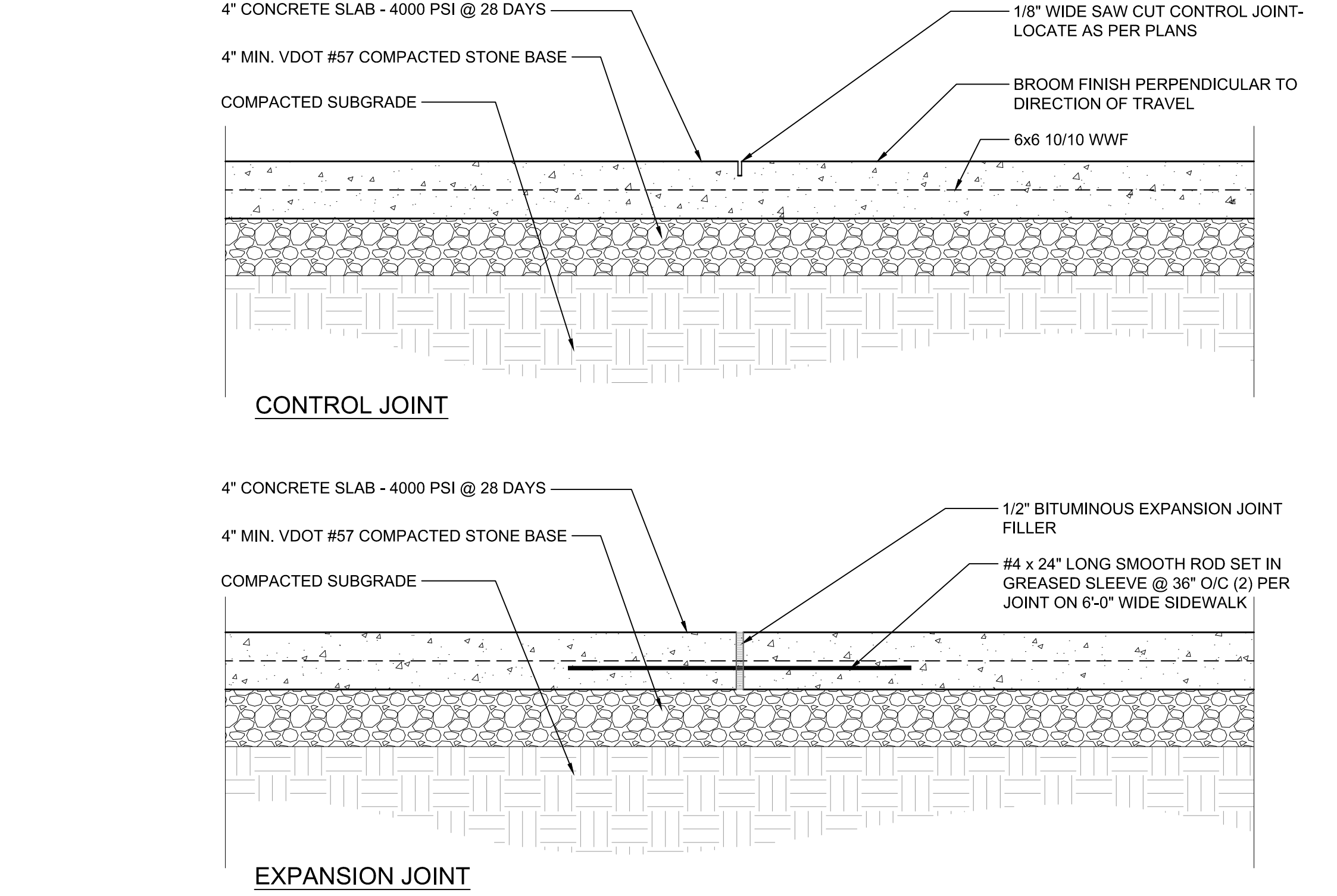




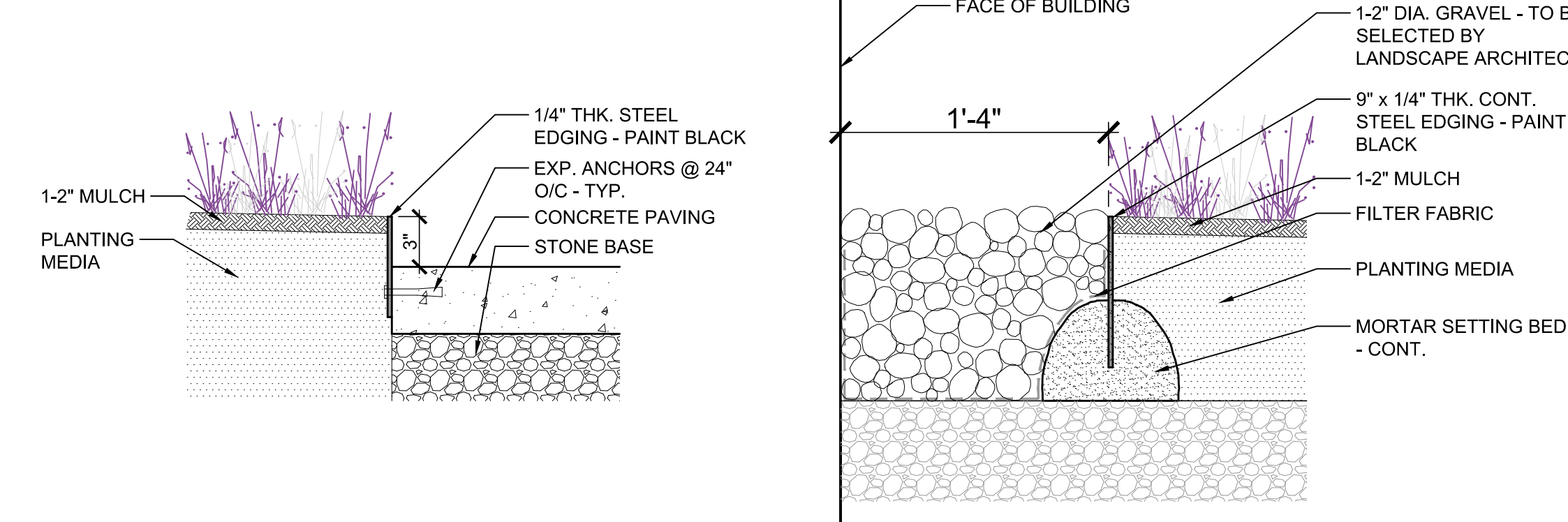
6 TREE GRATE
NOT TO SCALE



5 FIRE TABLE - SECTION
1\"/>

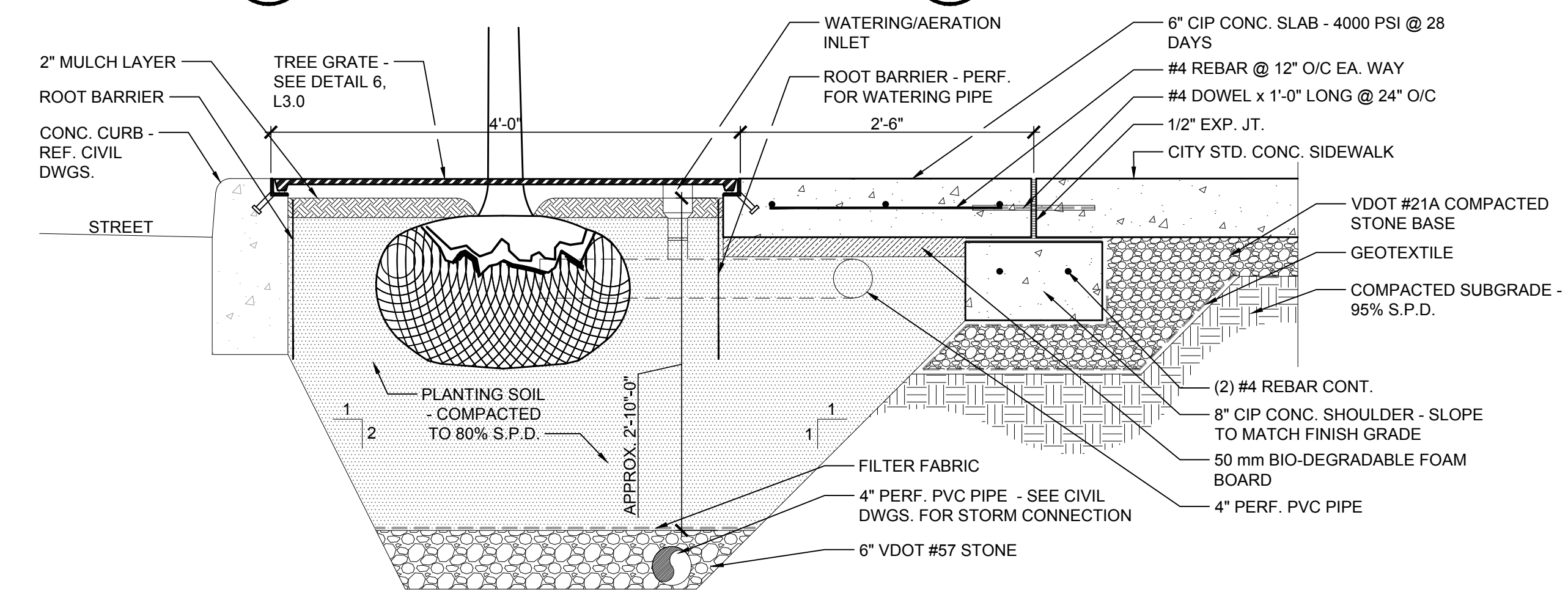


1 CONCRETE PAVING - SECTION
1 1/2\"/>

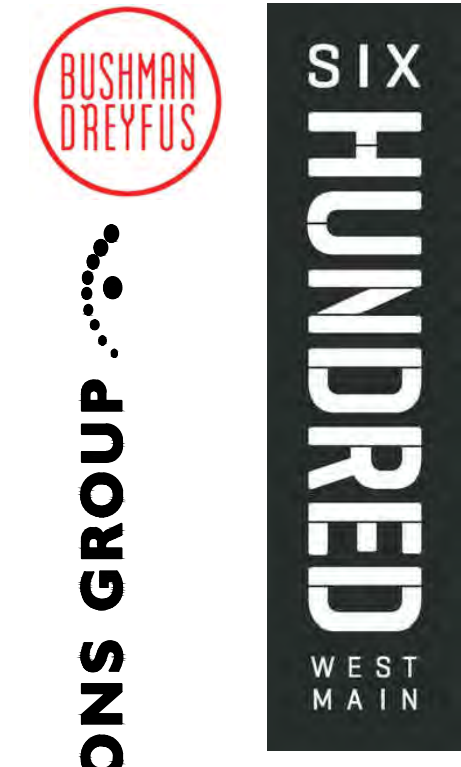


2 STEEL EDGING - SECTION
1 1/2\"/>

3 GRAVEL BORDER - SECTION
1 1/2\"/>



4 TREE WELL - SECTION
1\"/>



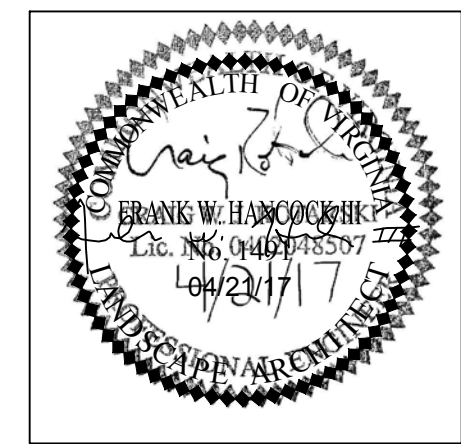
ARCHITECT
BUSHMAN DREYFUS ARCHITECTS PC
820 East High Street
Charlottesville VA 22902
434.295.1936

DEVELOPER
HEIRLOOM WEST MAIN DEVELOPMENT
c/o Grayson Consulting
2093 Goodling Road
North Garden VA 22959

CIVIL ENGINEER
TIMMONS GROUP
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Charlottesville VA 22903

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STAENGL ENGINEERING
1159 Crozet Avenue, Suite A
Crozet, VA 22932

STRUCTURAL ENGINEER
Dunbar Milby Williams Pittman & Vaughn
110 Third Street
Charlottesville, VA 22902



address:
**510-600 WEST
MAIN STREET
CHARLOTTESVILLE, VA**

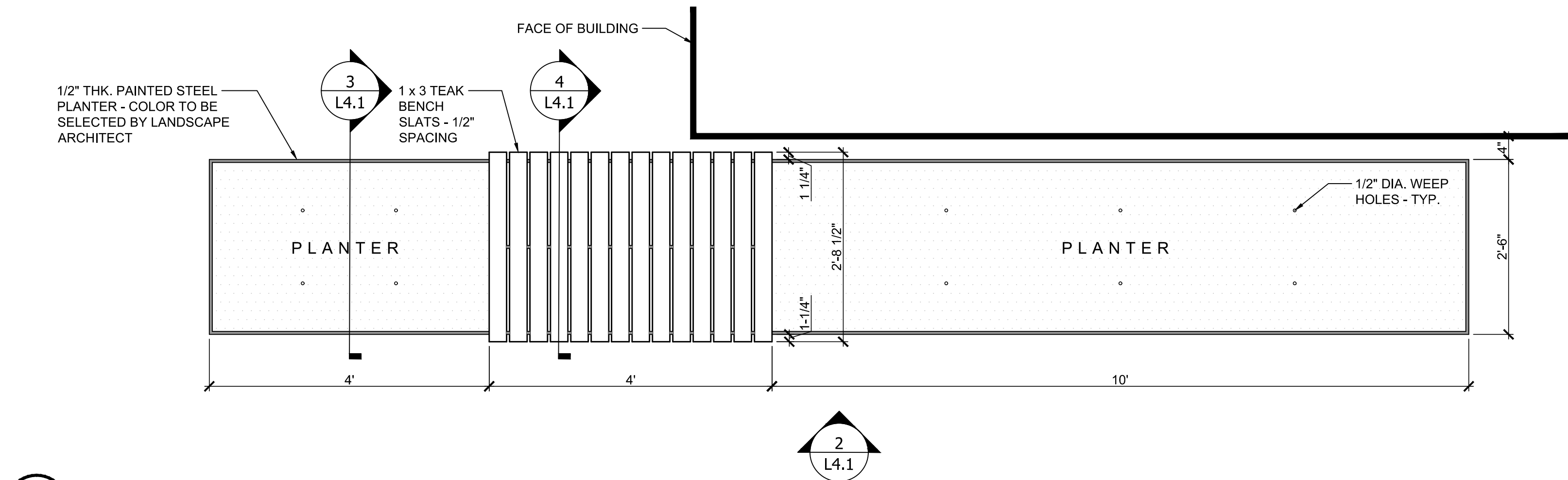
PROJECT #15171

EDITIONS/REVS
MARK DATE DESCRIPTION

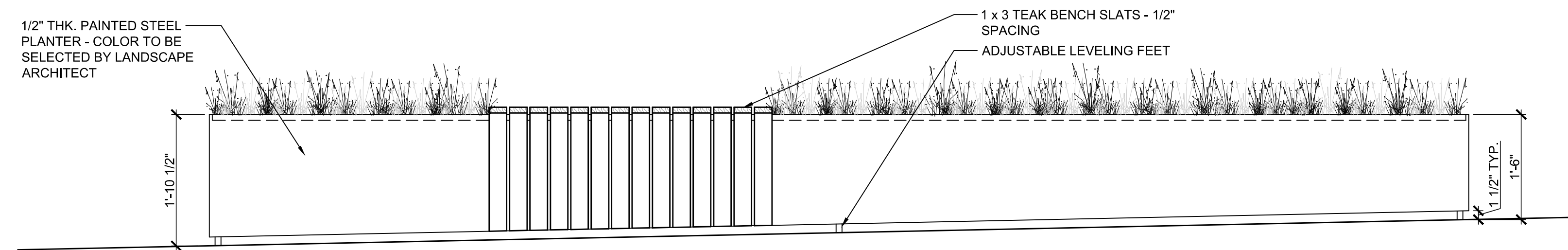
DETAILS

CONSTRUCTION DOCUMENTS
04.21.2017
printed: 3:08 PM, 3/2/17

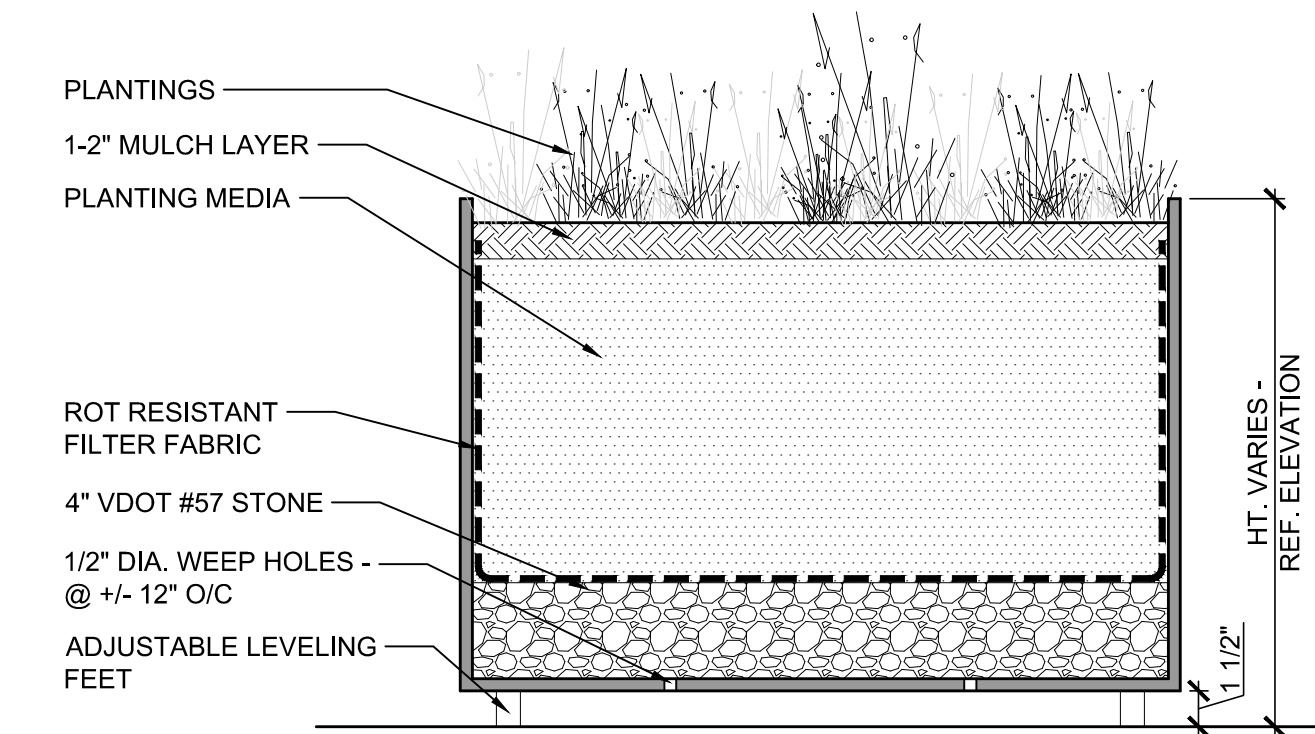
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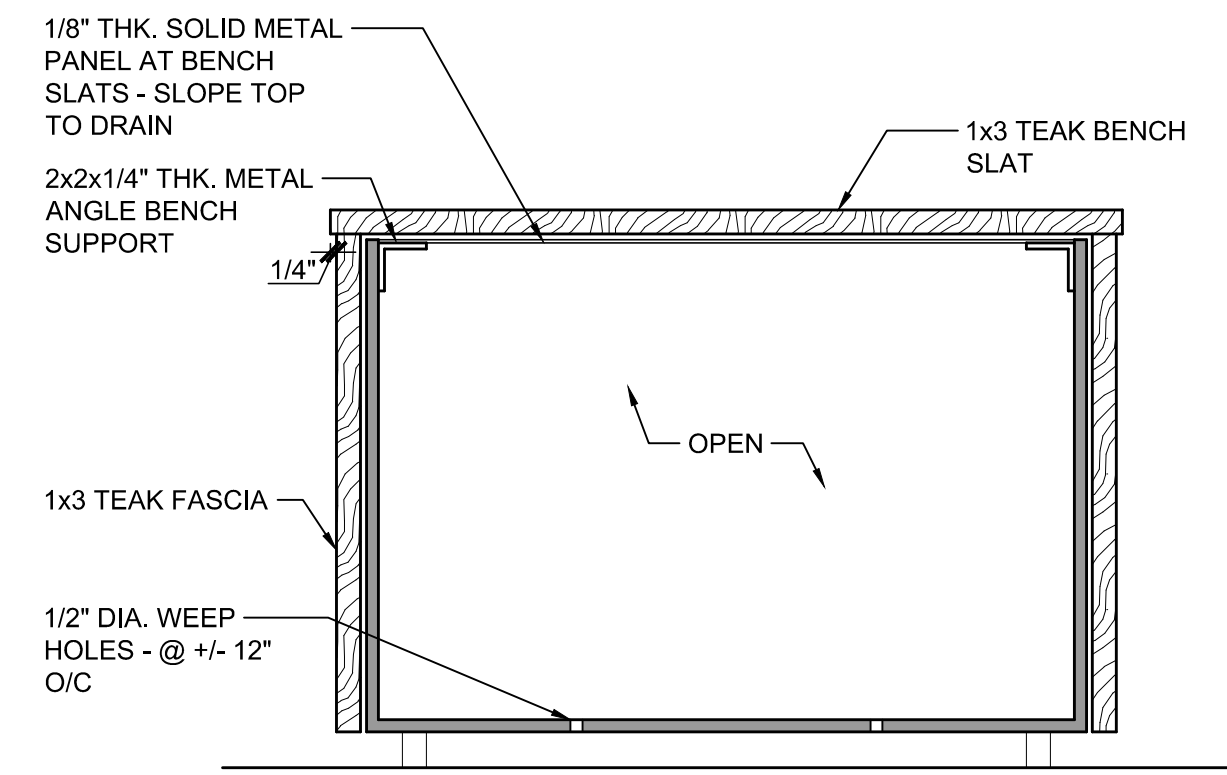
1 **PLANTER - PLAN**
3/4" = 1'-0"



2 **PLANTER - ELEVATION**
3/4" = 1'-0"



3 **PLANTER - SECTION**
1 1/2" = 1'-0"



4 **PLANTER WITH BENCH - SECTION**
1 1/2" = 1'-0"

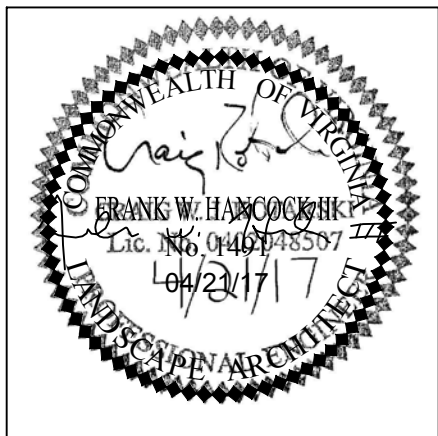
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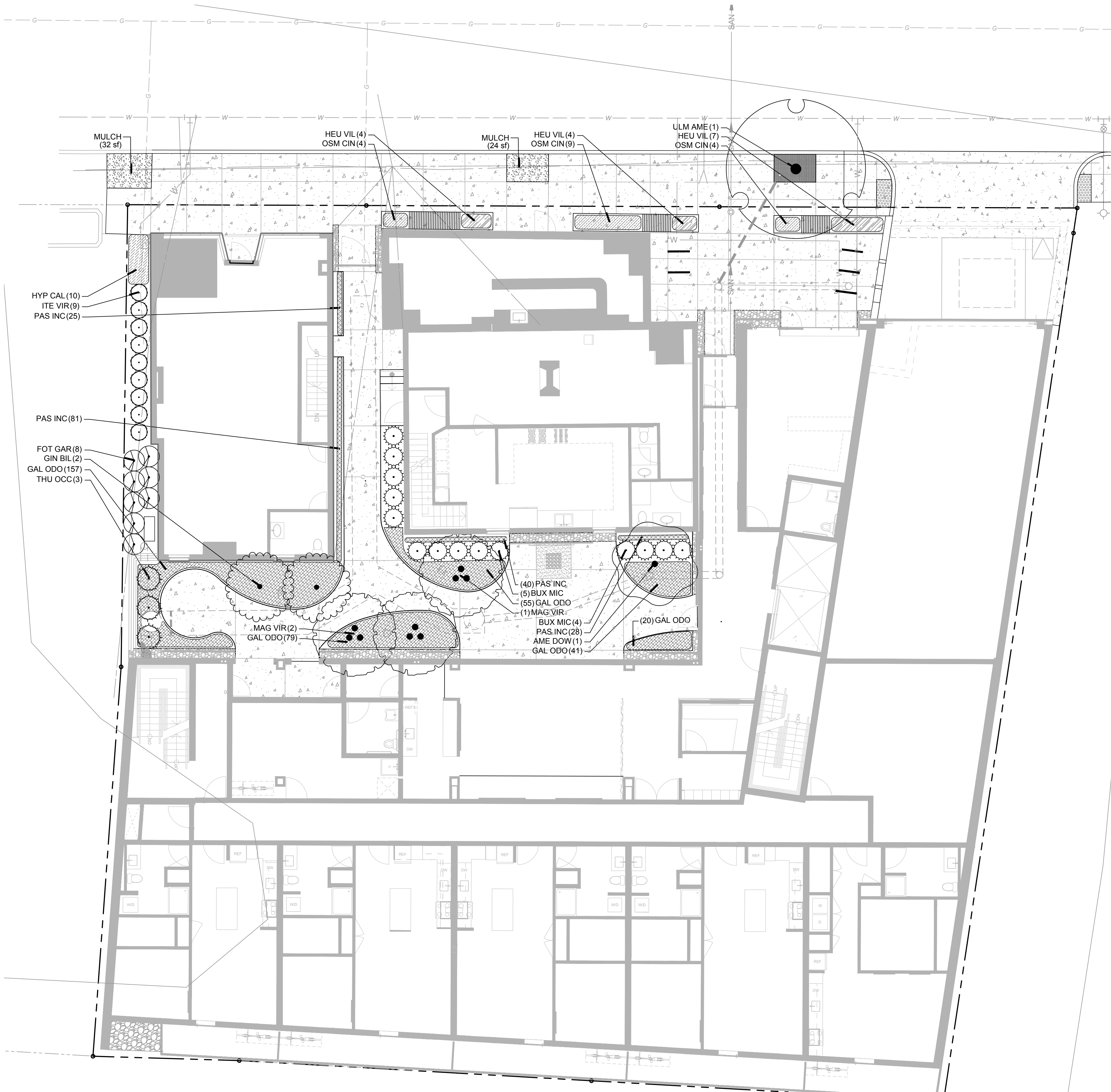
address:
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PROJECT #15171

EDITIONS/REVS
MARK DATE DESCRIPTION

DETAILS

CONSTRUCTION DOCUMENTS
04.21.2017
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PLANT KEY	
TREES	BOTANICAL NAME
AME DOW	AMELANCHIER ARBOREA
GIN BIL	GINKGO BILOBA 'PRINCETON SENTRY'
MAG VIR	MAGNOLIA VIRGINIANA
THU OCC	THUJA OCCIDENTALIS
ULM AME	ULMUS AMERICANA 'VALLEY FORGE'
SHRUBS	BOTANICAL NAME
BUX MIC	BUXUS MICROPHYLLA 'GREEN MOUNTAIN'
FOT GAR	FOTHERGILLA GARDENII 'SUZANNE'
ITE VIR	ITEA VIRGINICA 'LITTLE HENRY' TM
GROUND COVERS	BOTANICAL NAME
GAL ODO	GALIUM ODORATUM
HEU VIL	HEUCHERA VILLOSA 'AUTUMN BRIDE'
HYP CAL	HYPERICUM CALYCINUM
OSM CIN	OSMUNDA CINNAMOMEA
VINE	BOTANICAL NAME
PAS INC	PASSIFLORA INCARNATA



TIMMONS GROUP

SIX
HUNDRED
WEST
MAIN

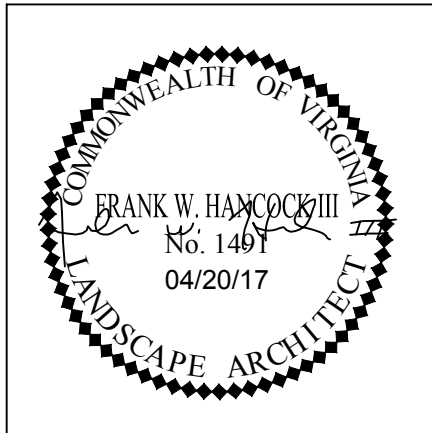
ARCHITECT
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Charlottesville, VA 22902



address:
**510-600 WEST
MAIN STREET
CHARLOTTESVILLE, VA**

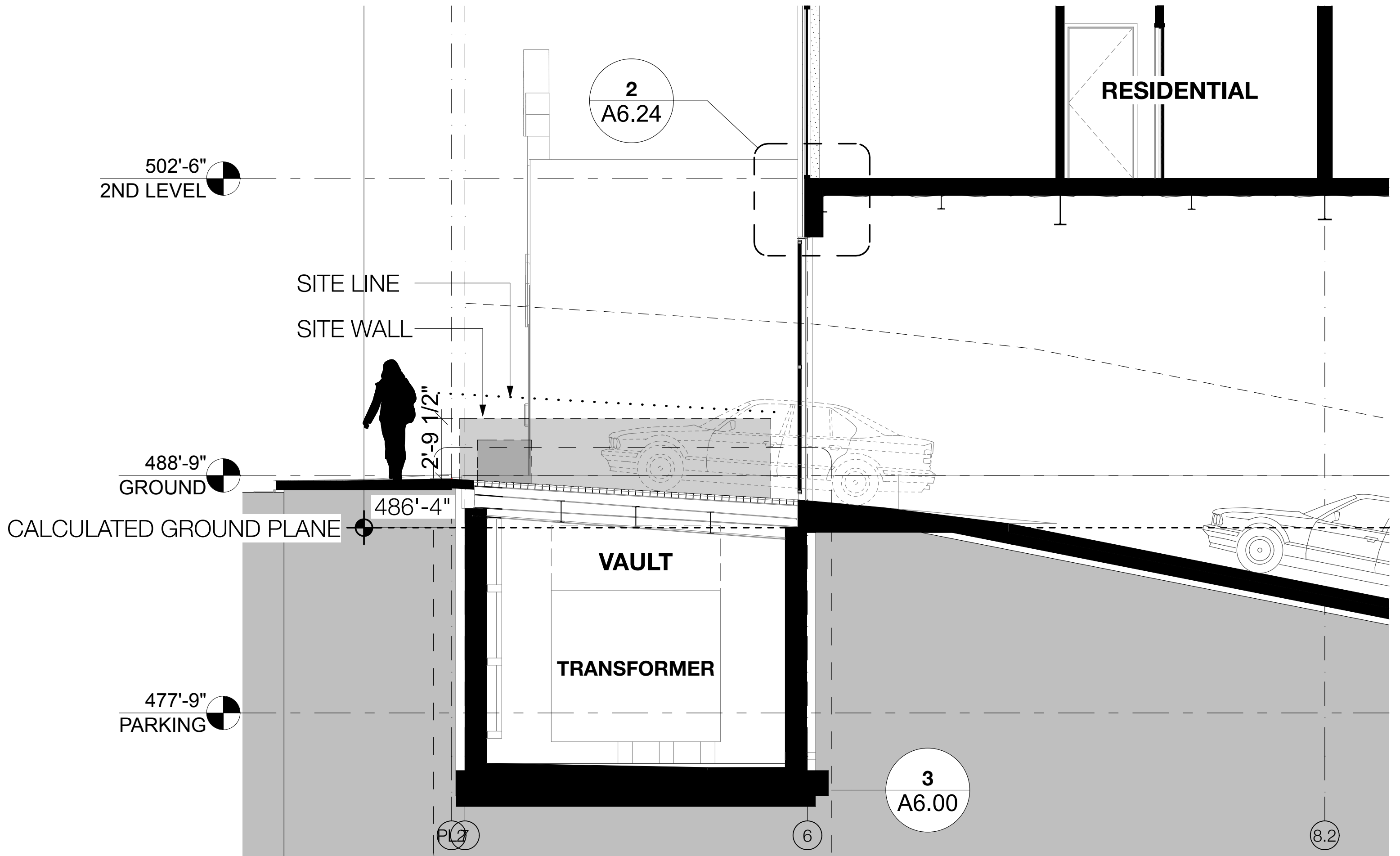
PROJECT #15171

EDITIONS/REVS
MARK DATE DESCRIPTION

LANDSCAPE PLAN

CONSTRUCTION
DOCUMENTS
04.21.2017
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L4.0



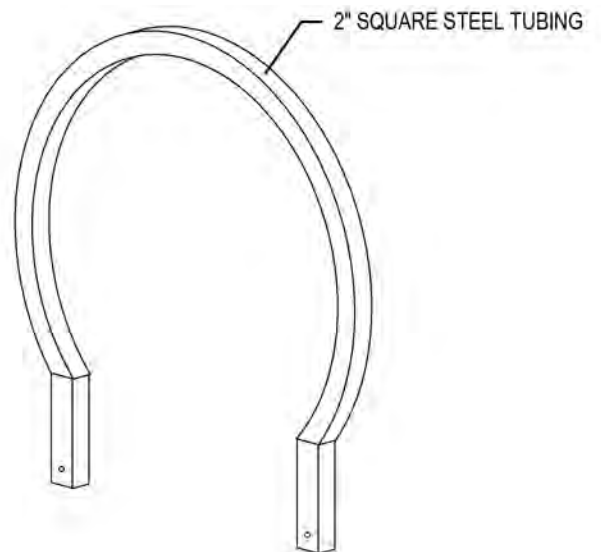
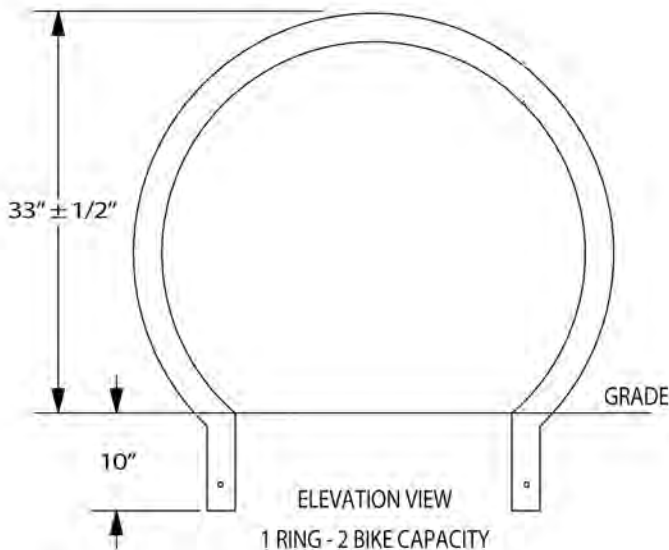
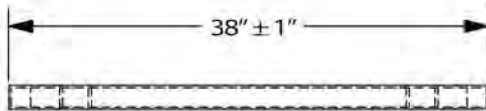


DURA BIKE RACKS

A DIVISION OF HANNAN SPECIALTIES INC.

Made in the USA

DIMENSION SHEET FOR MODEL : OMEGA-SQ-2-IG-P(G, or S) (Square Tube Circular Style Bicycle Rack)

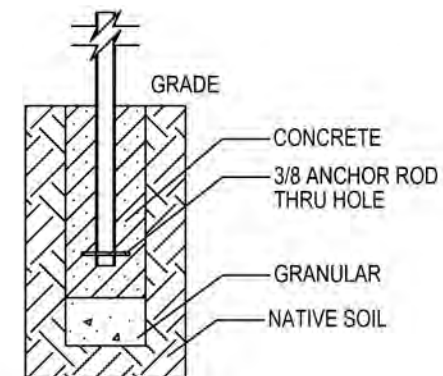


Mount Option:
☐ Surface Flange (SF) ☒ In Ground (IG)

Finish:
☒ Powder Coat (P) ☐ Hot-Dip Galvanized (G)
☐ Stainless Steel (S)

Powder Coat Color: ☐ Anti-Graffiti Clear Coat
☐ Black ☐ Silver Gray ☐ Emerald Green
☐ Pearl White ☐ Mesa Tan ☐ Celestial Blue
☒ Graphite ☐ Fire Engine Red

Rack Options:
☐ Lean Bar (LB)
☐ Lean Bar with Security Cables (SC)



IN GROUND MOUNT (IG)

Qty: _____ Approved Date: _____

Please Sign Here: _____

For Your Approval, This Is Used As A Submittal

www.durabikelocker.com

3790 BRADVIEW DR. - SACRAMENTO, CA 95827

(916) 363-7225 - (800) 722-BIKE (2453)

EXISTING BUILDING RENOVATIONS

A2.50 NORTH AND SOUTH ELEVATIONS

A2.51 EAST AND WEST MINI MART ELEVATIONS

A6.50 TRELLIS DETAILS

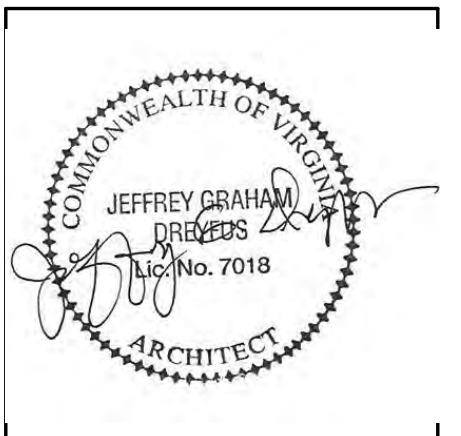
ARCHITECT
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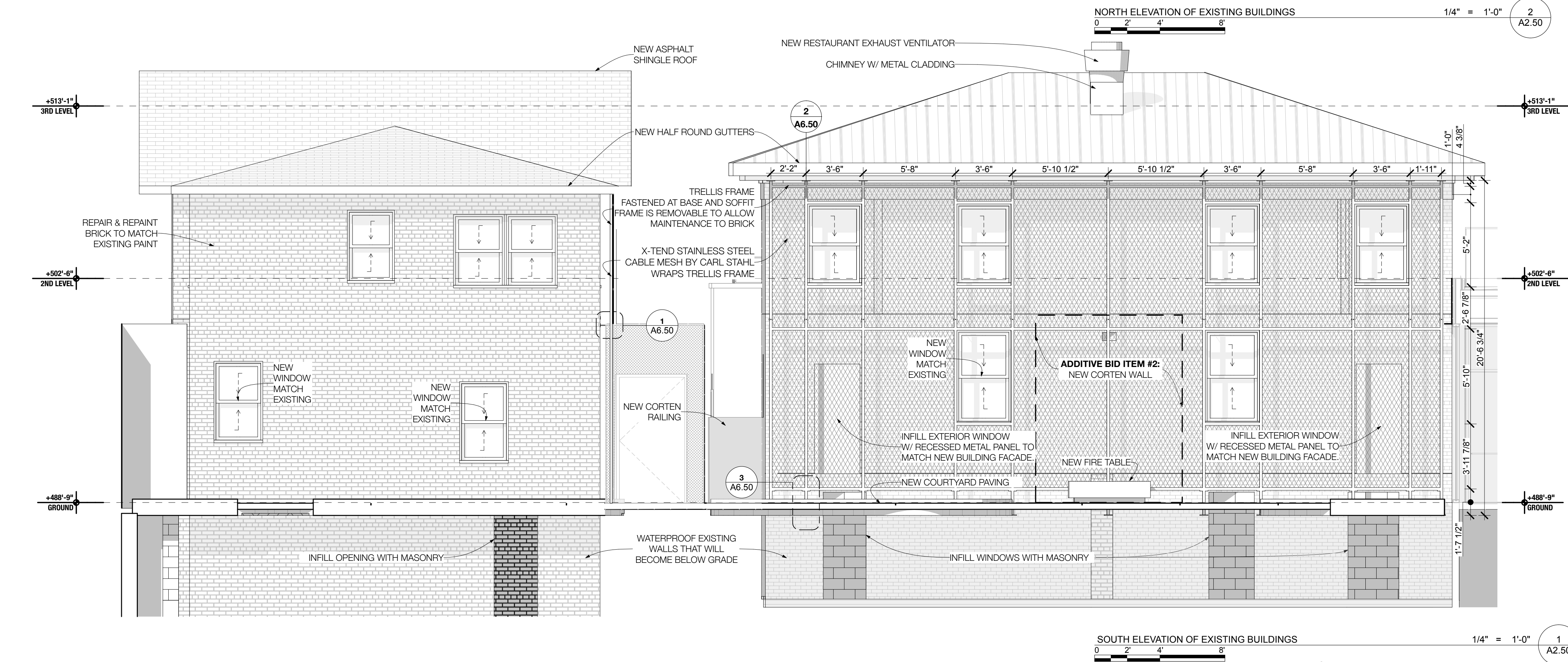
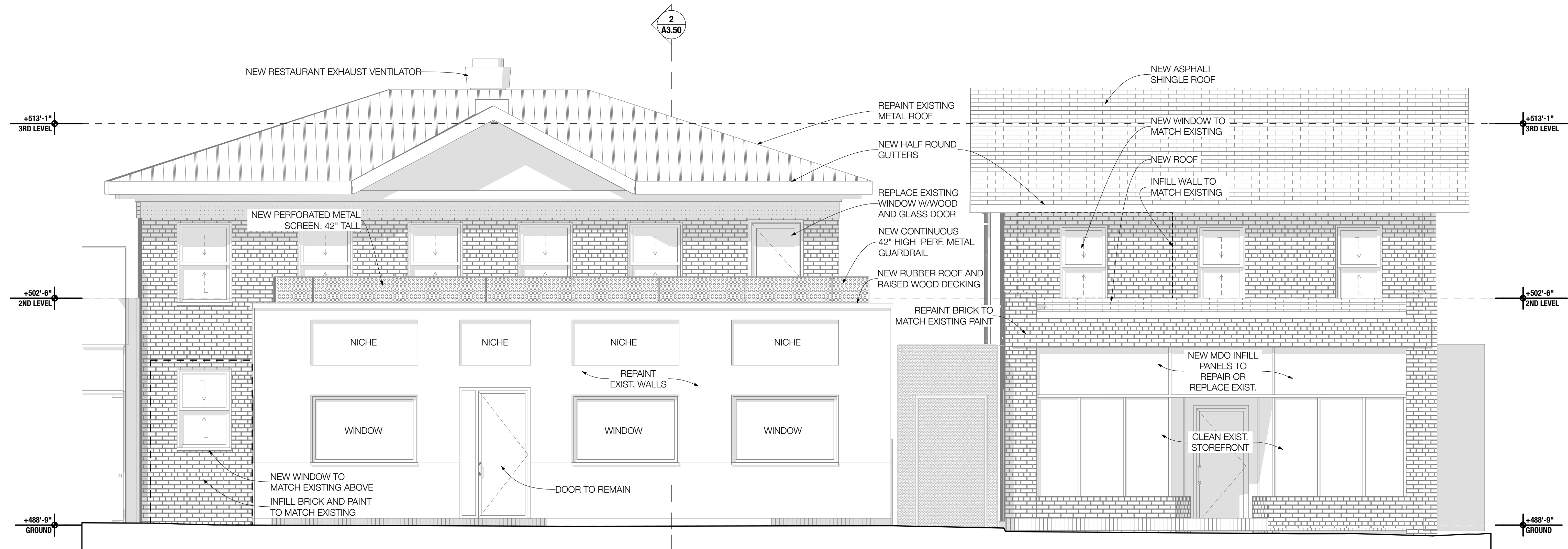
PROJECT #15171

EDITIONS/REVS
MARK DATE DESCRIPTION

**NORTH & SOUTH
ELEVATIONS OF EXSTG
BLDGS
CONSTRUCTION
DOCUMENTS
04.21.2017**

printed 11:10 AM, 5/9/17

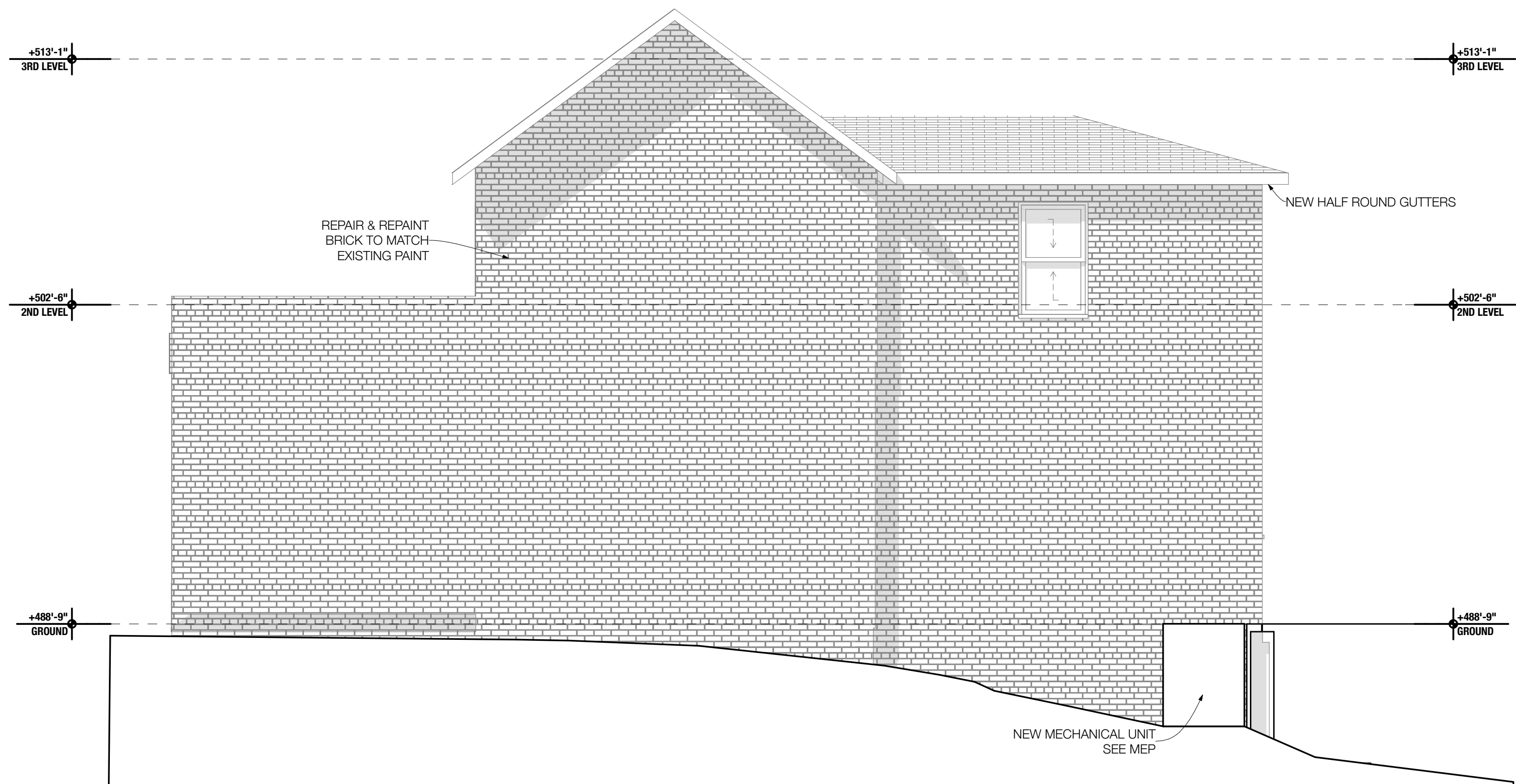
A2.50



NOTE:
PAINT TO MATCH EXISTING COLORS
UNPAINTED BRICK TO REMAIN UNPAINTED



ELEVATION - EXISTING MINI MART EAST WALL
1/4" = 1'-0" 2 A2.51



ELEVATION - EXISTING MINI MART WEST WALL
1/4" = 1'-0" 1 A2.51

NOTE: PAINT TO MATCH EXISTING COLORS
UNPAINTED BRICK TO REMAIN UNPAINTED

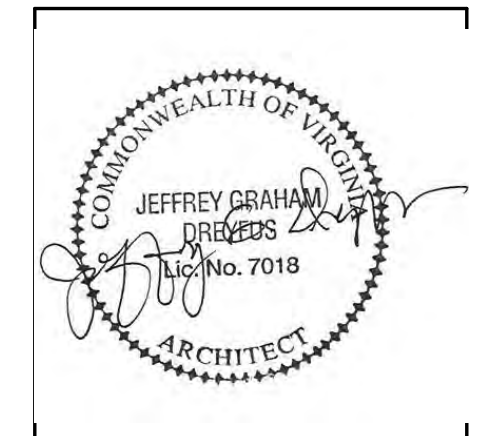
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MAIN STREET
CHARLOTTESVILLE, VA**

PROJECT #15171

EDITIONS/REVS
MARK DATE DESCRIPTION

**EAST & WEST
ELEVATIONS OF MINI
MART
CONSTRUCTION
DOCUMENTS
04.21.2017**

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A2.51

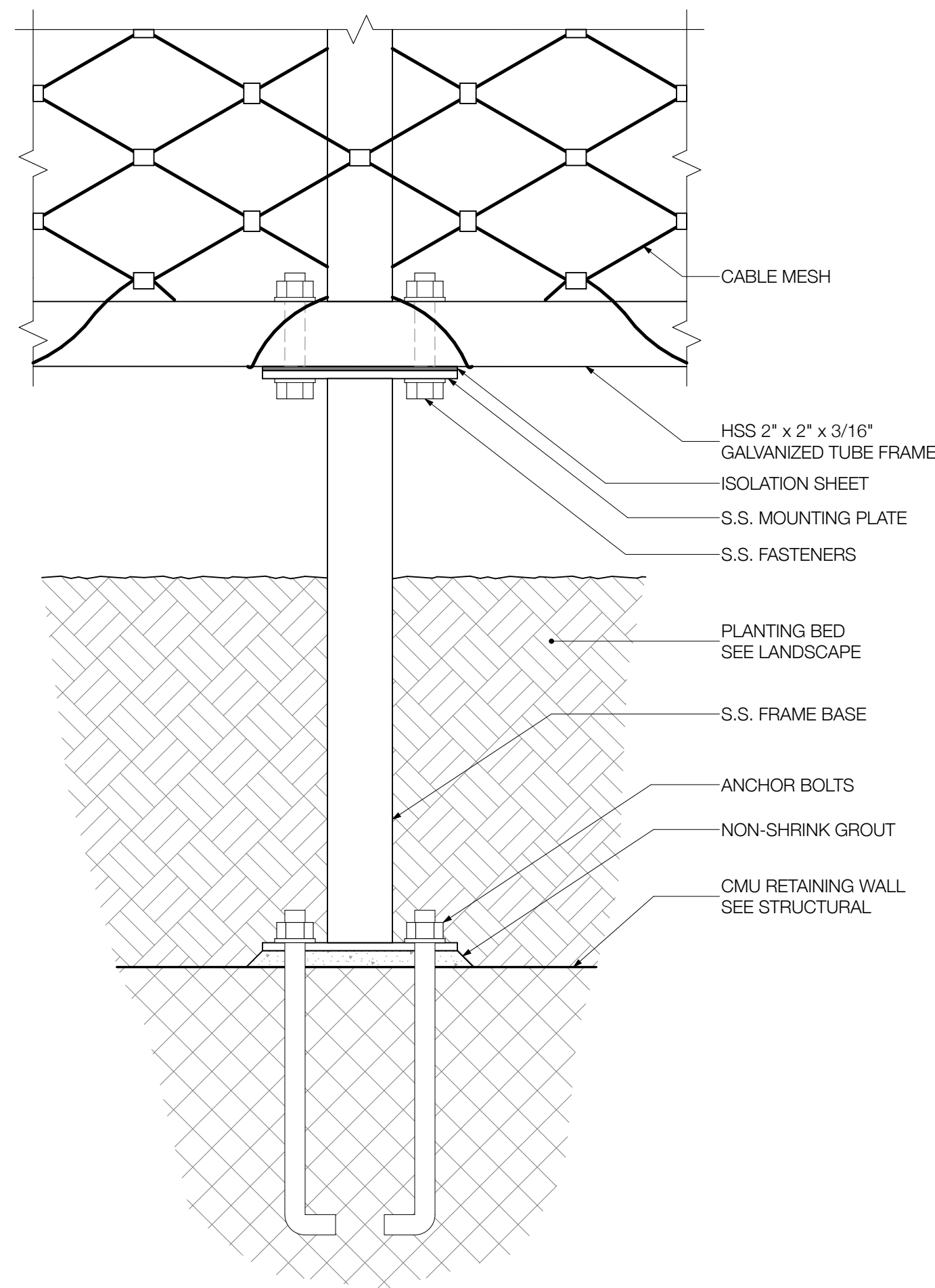
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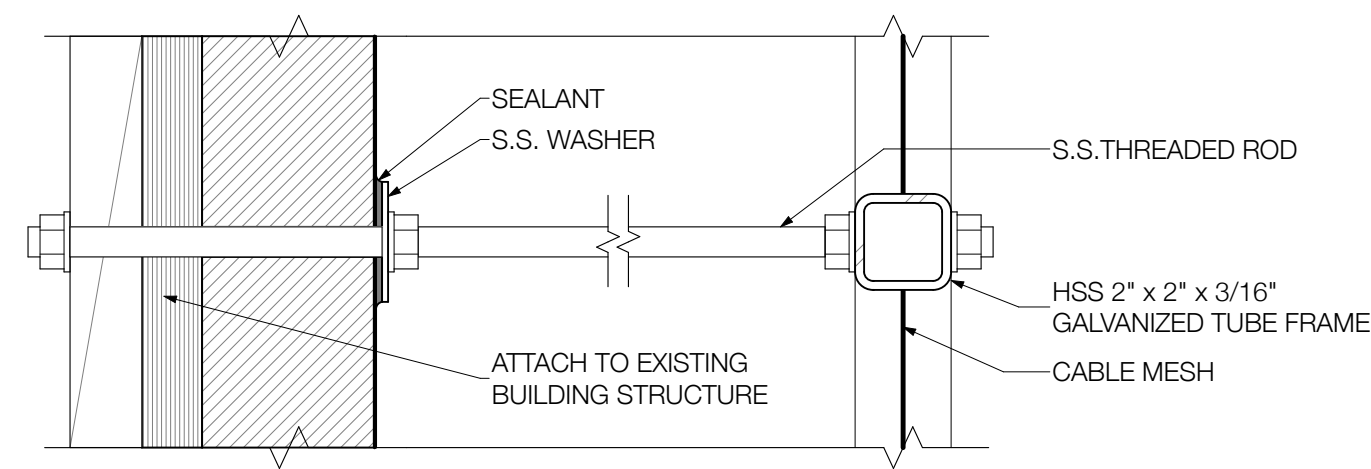
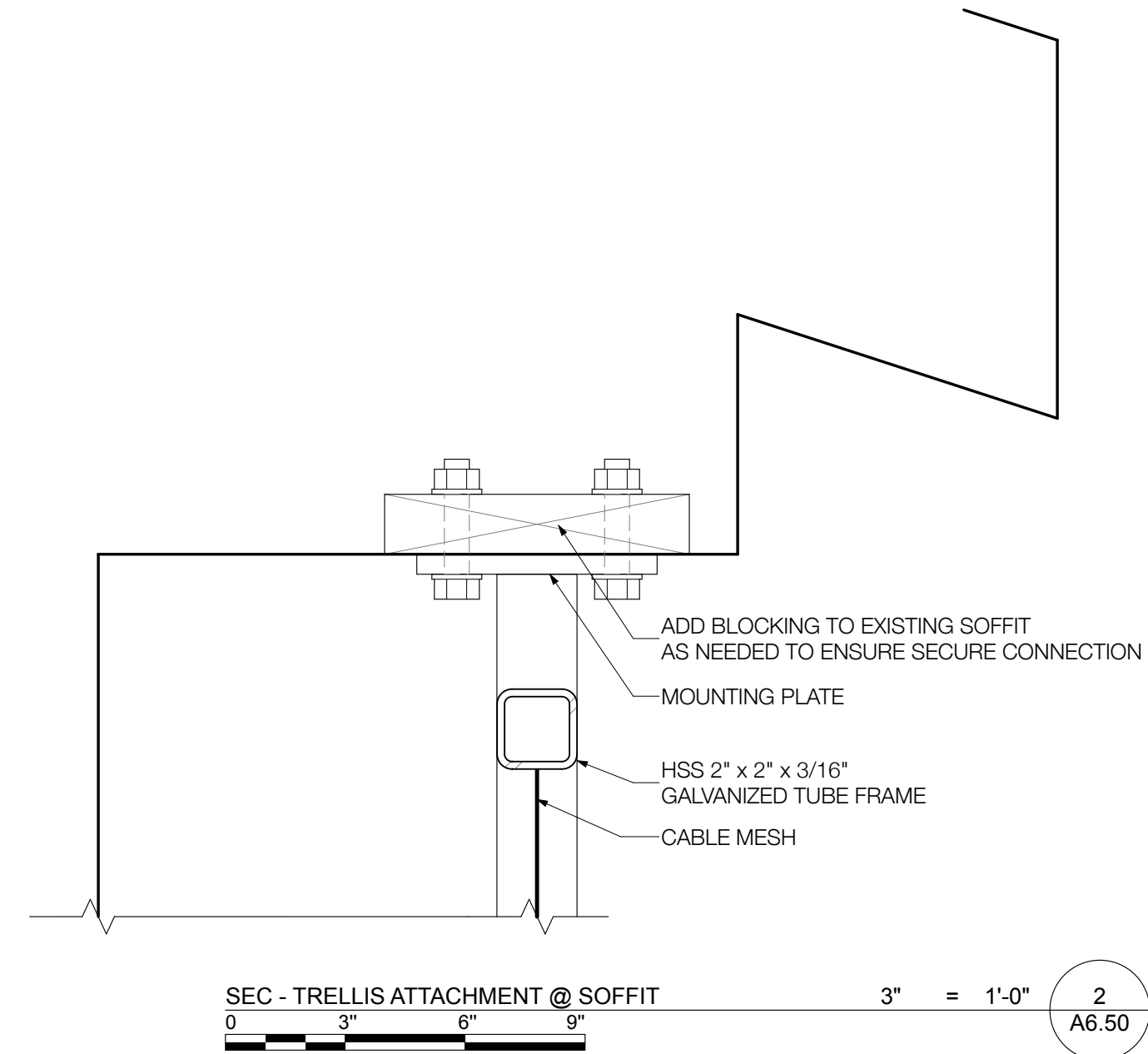
STRUCTURAL ENGINEER
Dunbar Milby Williams Pittman & Vaughan
110 Third Street
Charlottesville, VA 22902



TRELLIS FRAME FOOTING

3" = 1'-0"

3
A6.50



address:
**510-600 WEST
MAIN STREET
CHARLOTTESVILLE, VA**

PROJECT #15171

EDITIONS/REVS

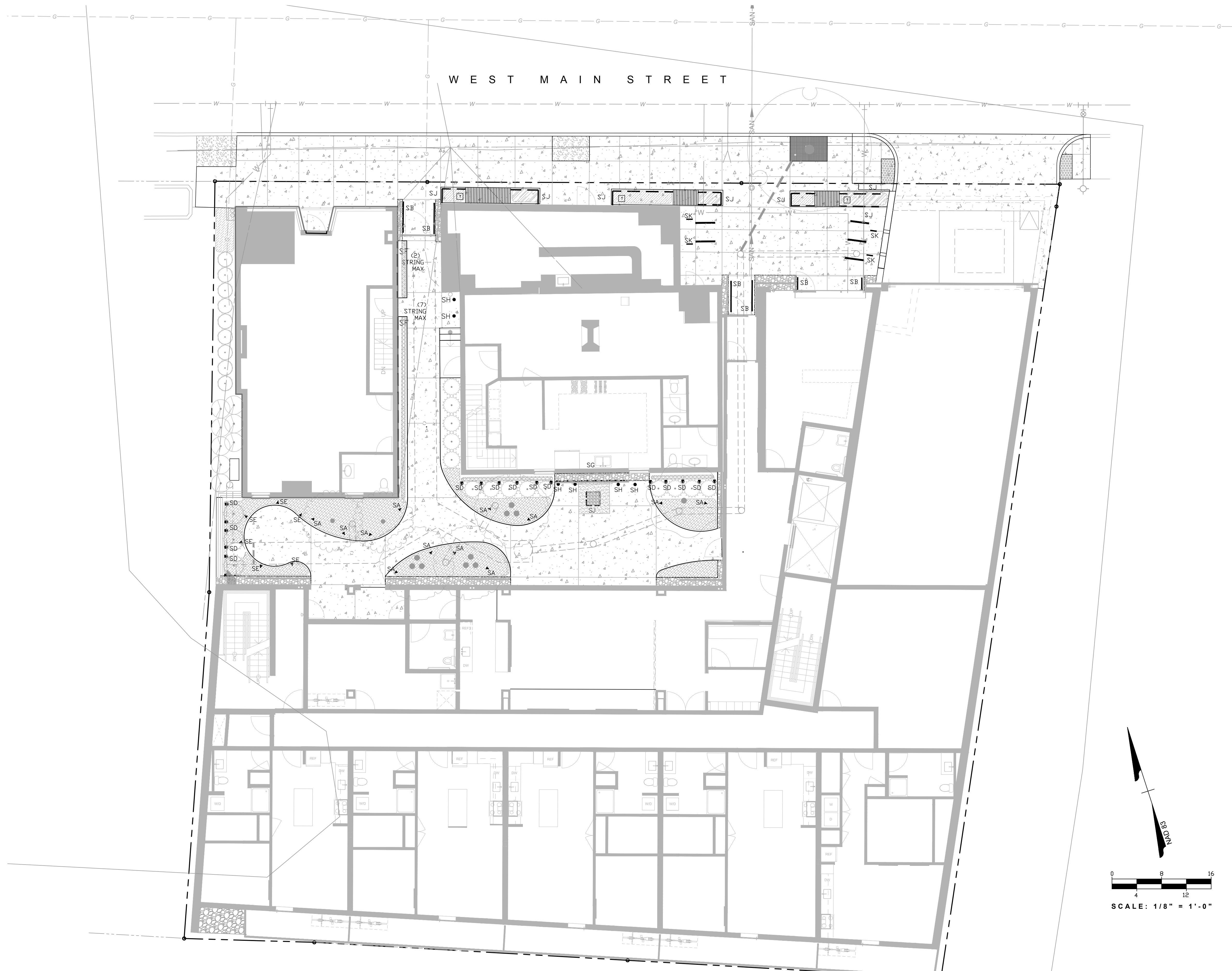
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**TRELLIS DETAILS
CONSTRUCTION
DOCUMENTS
04.21.2017**

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LIGHTING

L6.0 LANDSCAPE LIGHTING PLAN



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Charlottesville, VA 22902

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**510-600 WEST
MAIN STREET
CHARLOTTESVILLE, VA**

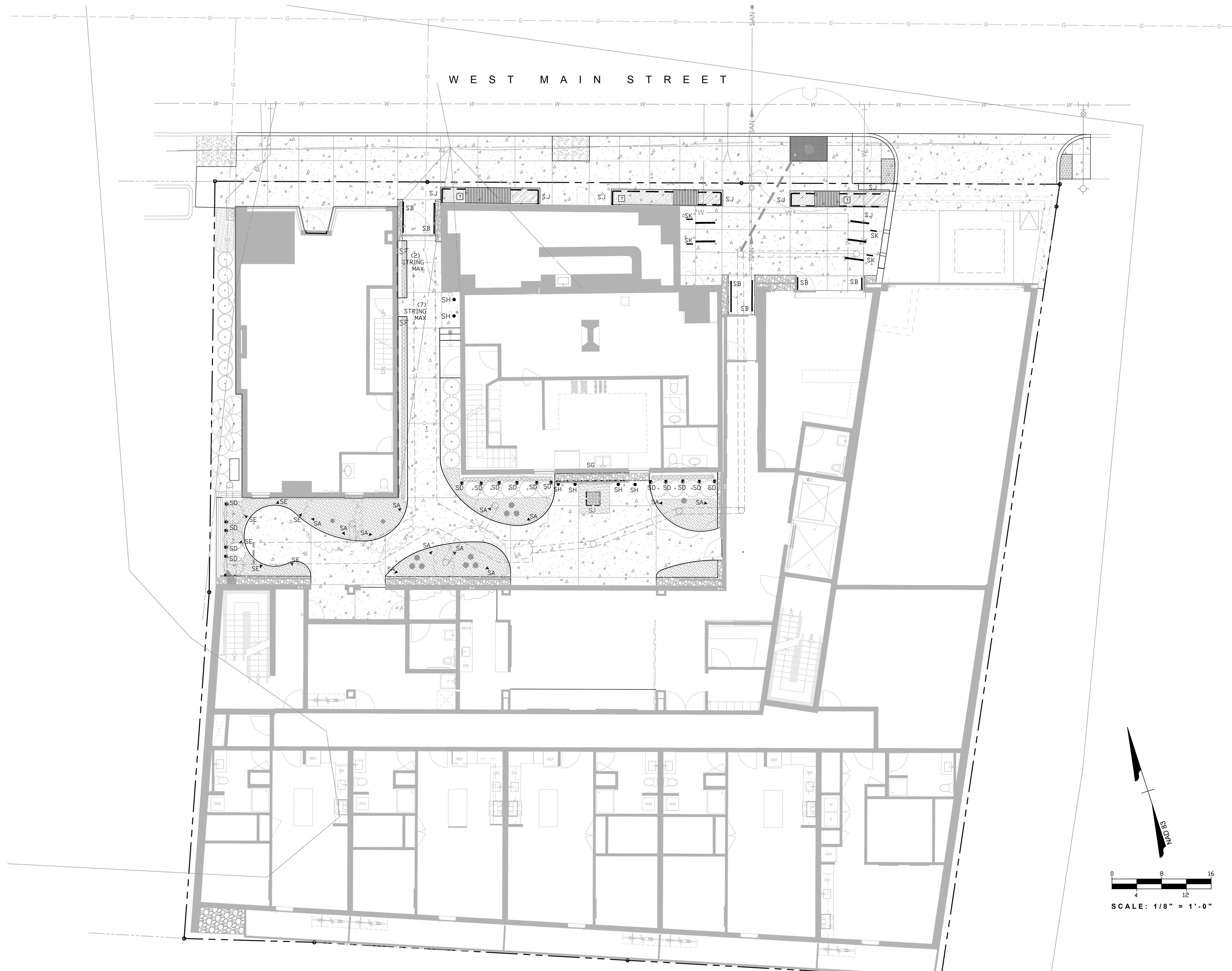
PROJECT #15171

EDITIONS/REVS
MARK DATE DESCRIPTION

SITE LIGHTING PLAN

CONSTRUCTION
DOCUMENTS
04.21.2017
printed 3:08 PM, 3/2/17

L6.0



TIMMONS GROUP

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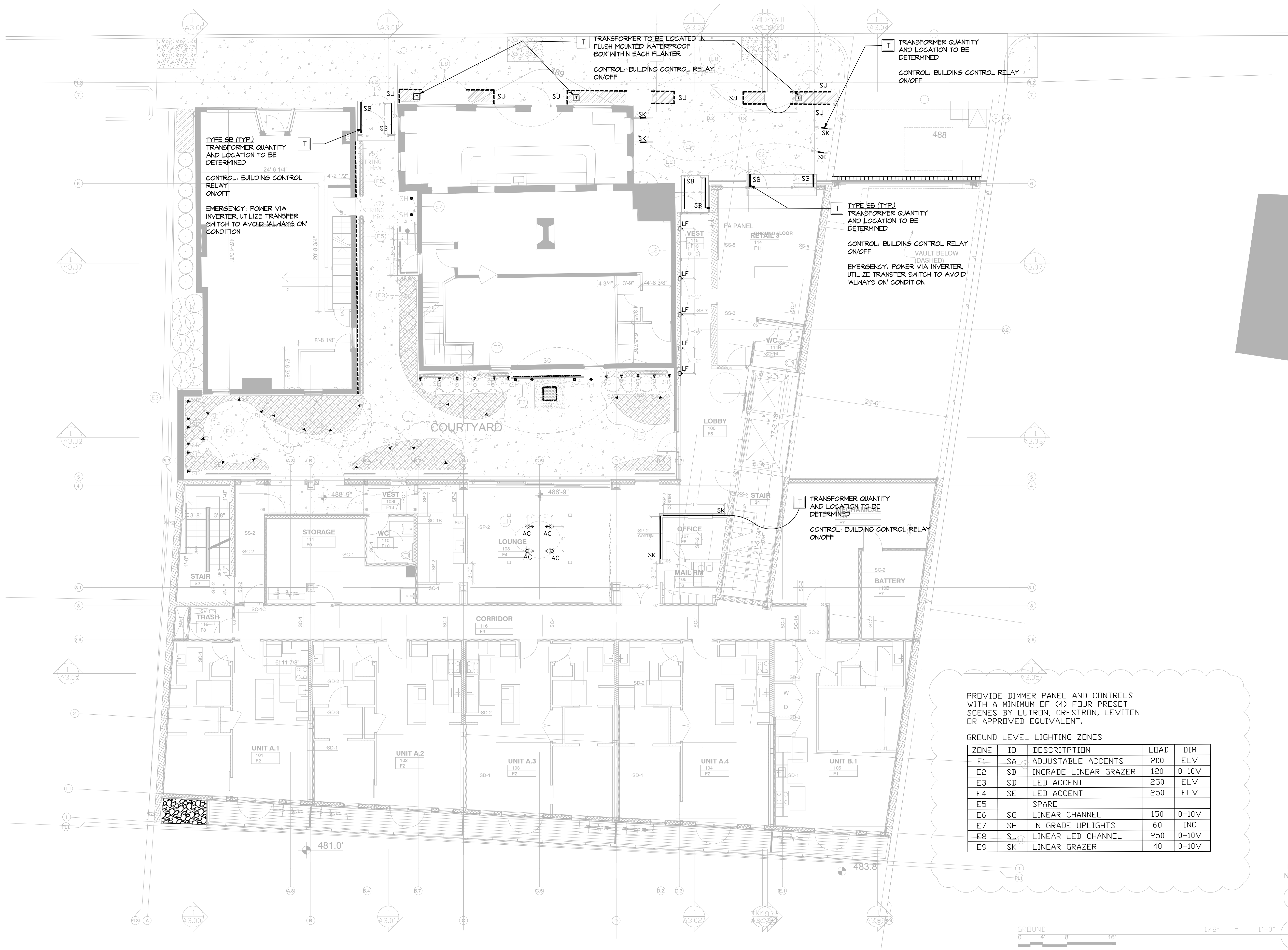
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SITE LIGHTING PLAN

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DOCUMENTS**
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WEST MAIN
STREET
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PROJECT #15171

EDITIONS/REVS

PROGRESS SET NOT
FOR CONSTRUCTION

GROUND FLOOR PLAN
CONSTRUCTION
DOCUMENTS
01.16.2017
printed 10:48 AM, 2/28/17

A1.12

PROVIDE DIMMER PANEL AND CONTROLS
WITH A MINIMUM OF (4) FOUR PRESET
SCENES BY LUTRON, CRESTRON, LEVITON
OR APPROVED EQUIVALENT.

GROUND LEVEL LIGHTING ZONES

ZONE	ID	DESCRIPTION	LOAD	DIM
E1	SA	ADJUSTABLE ACCENTS	200	ELV
E2	SB	INGRADE LINEAR GRAZER	120	0-10V
E3	SD	LED ACCENT	250	ELV
E4	SE	LED ACCENT	250	ELV
E5		SPARE		
E6	SG	LINEAR CHANNEL	150	0-10V
E7	SH	IN GRADE UPLIGHTS	60	INC
E8	SJ	LINEAR LED CHANNEL	250	0-10V
E9	SK	LINEAR GRAZER	40	0-10V

PLAN
NORTH



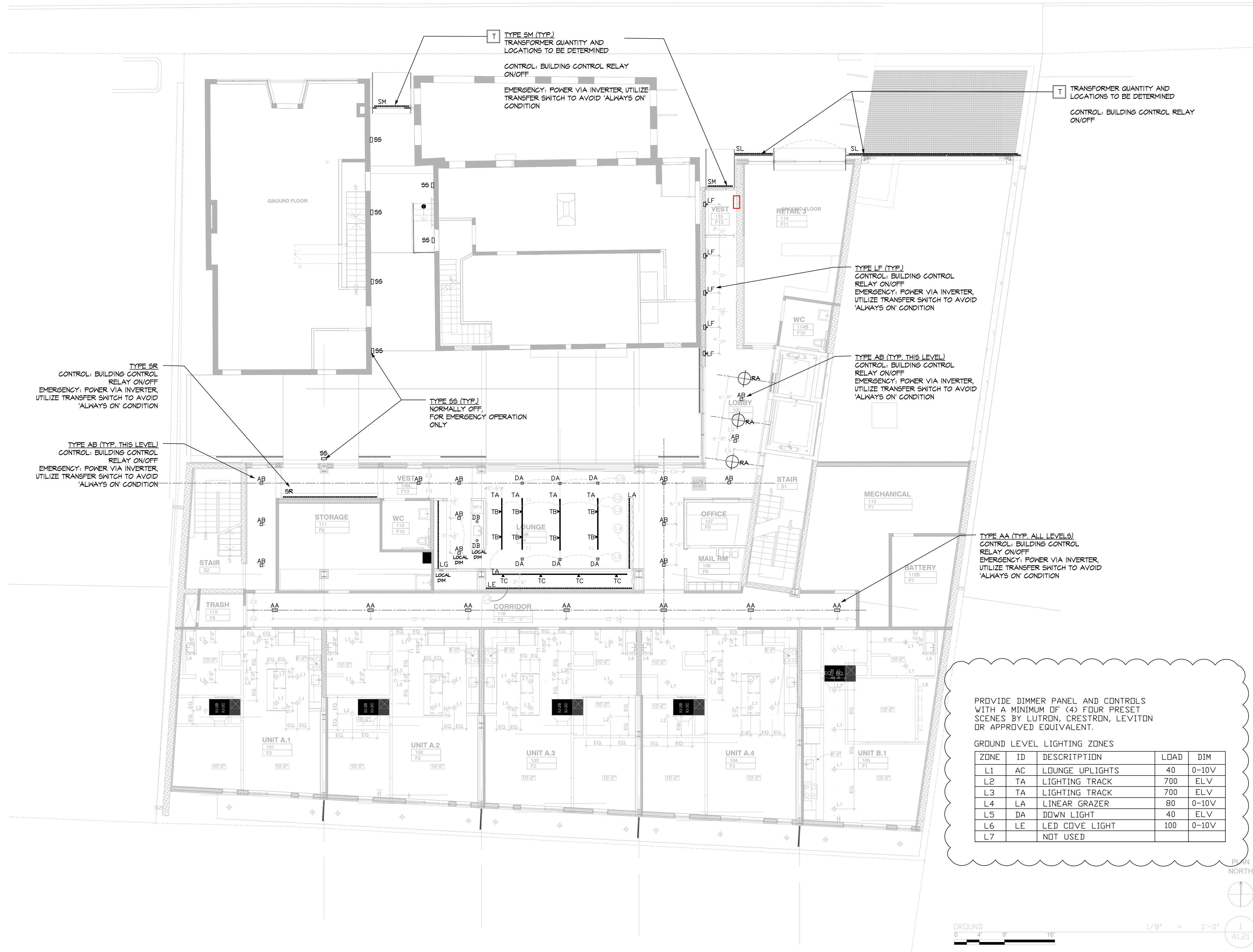
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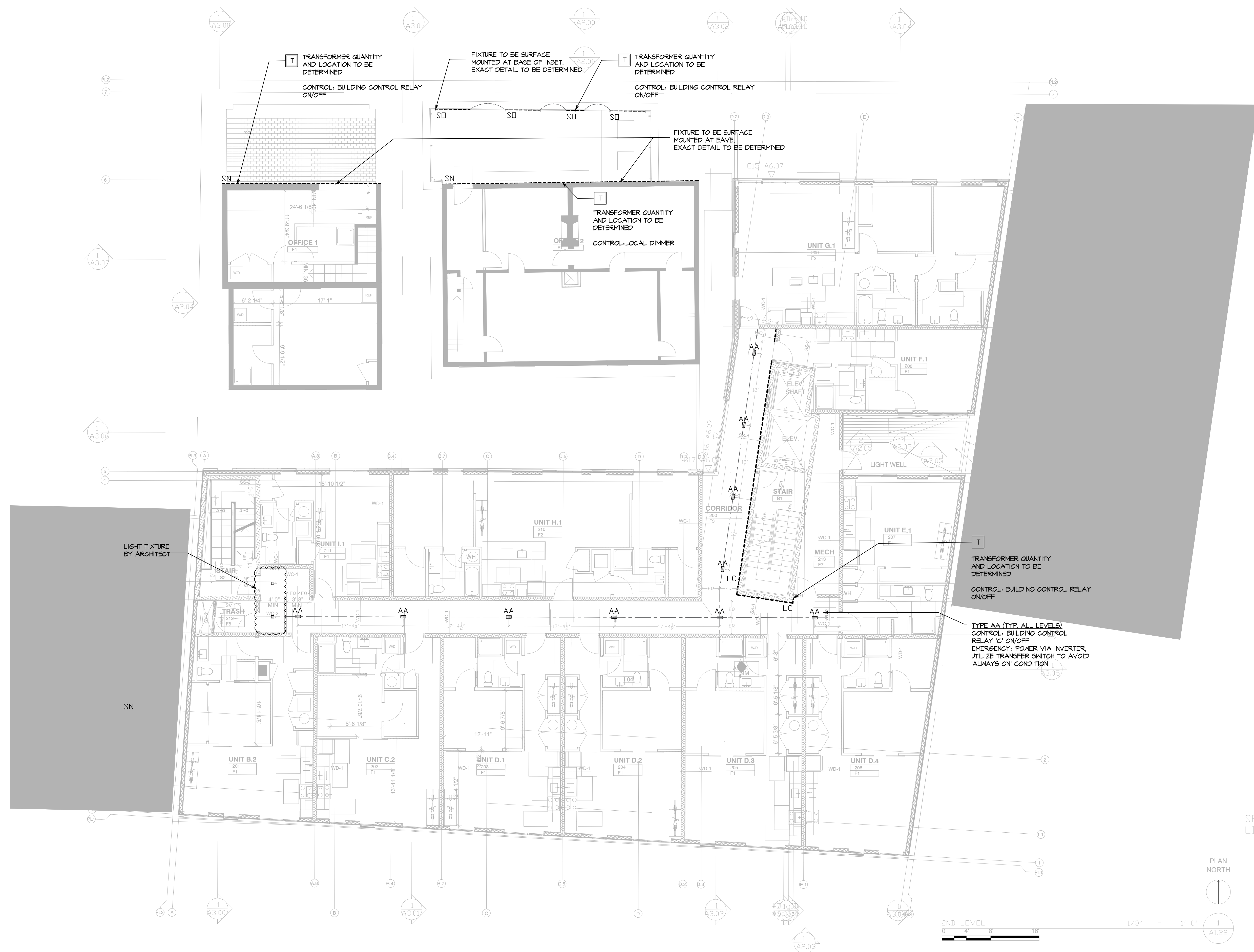
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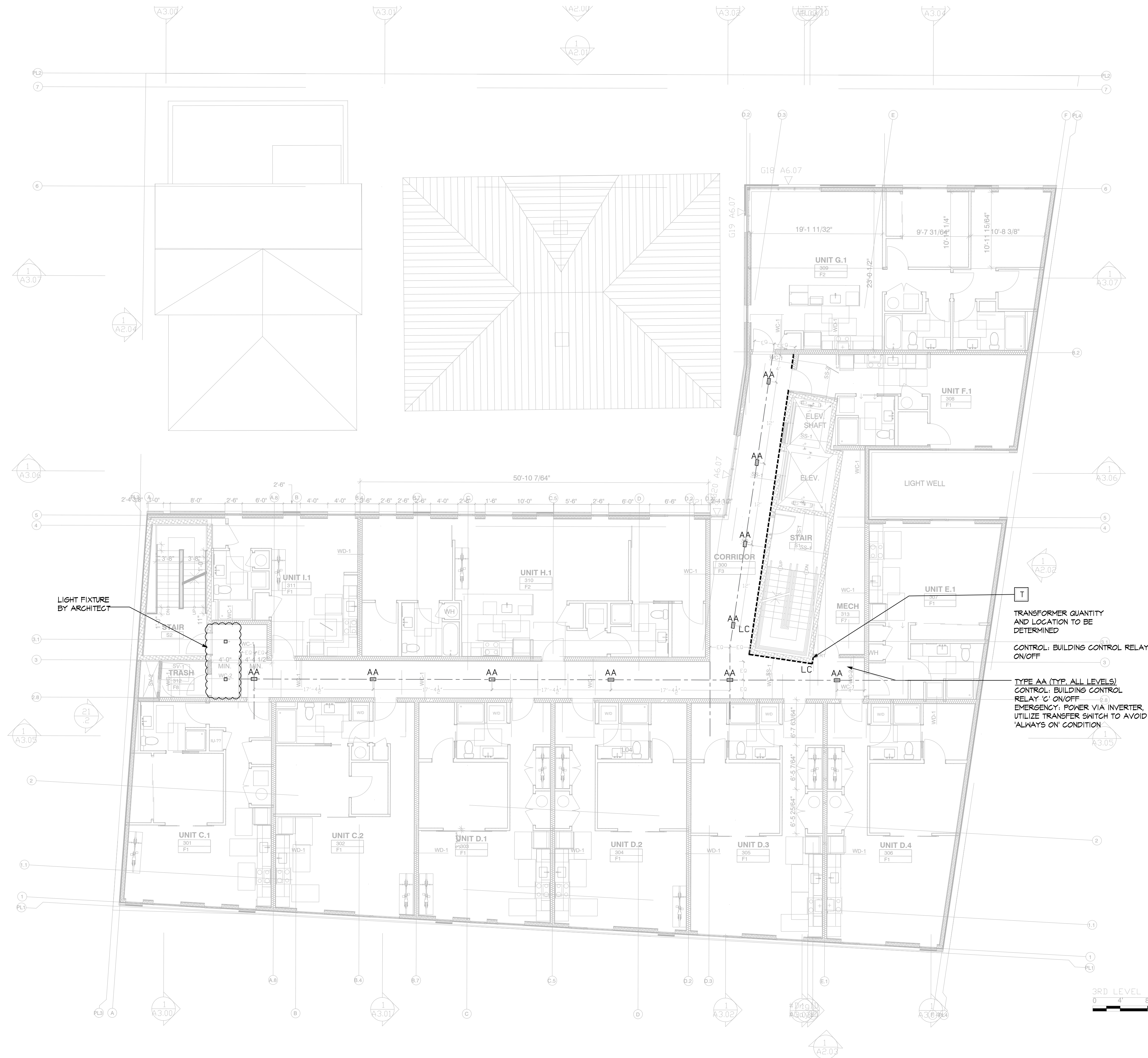
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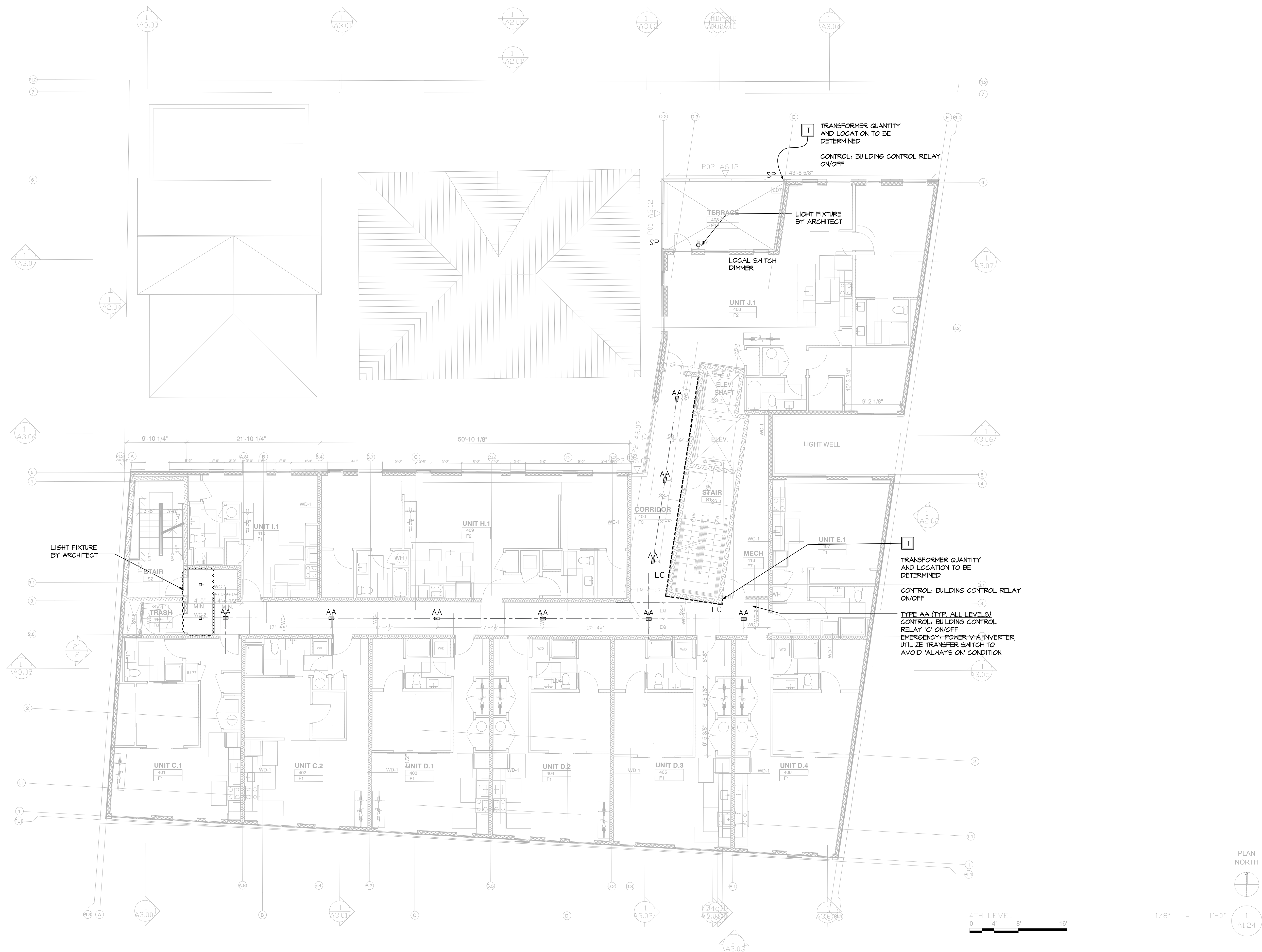
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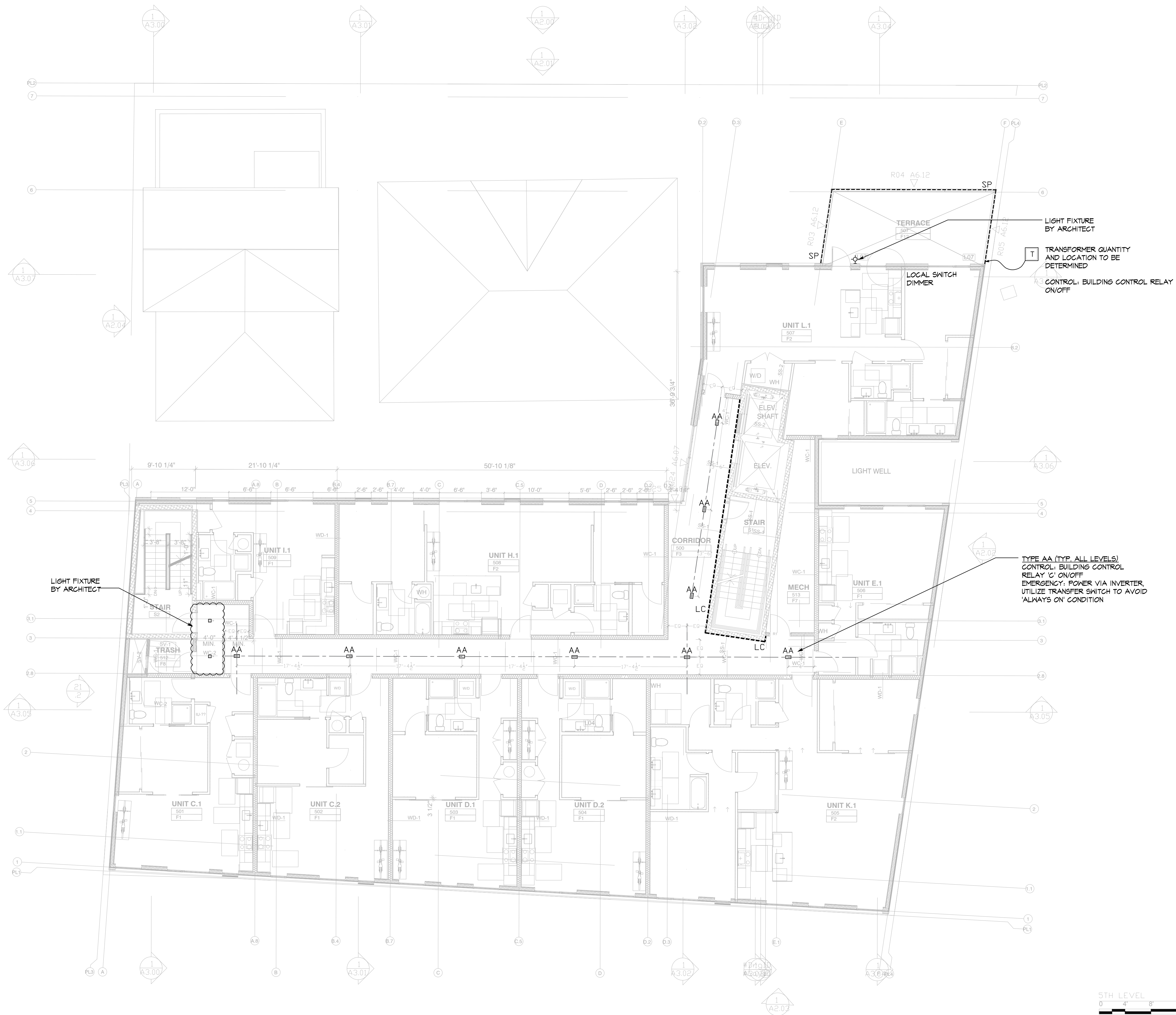
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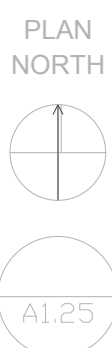


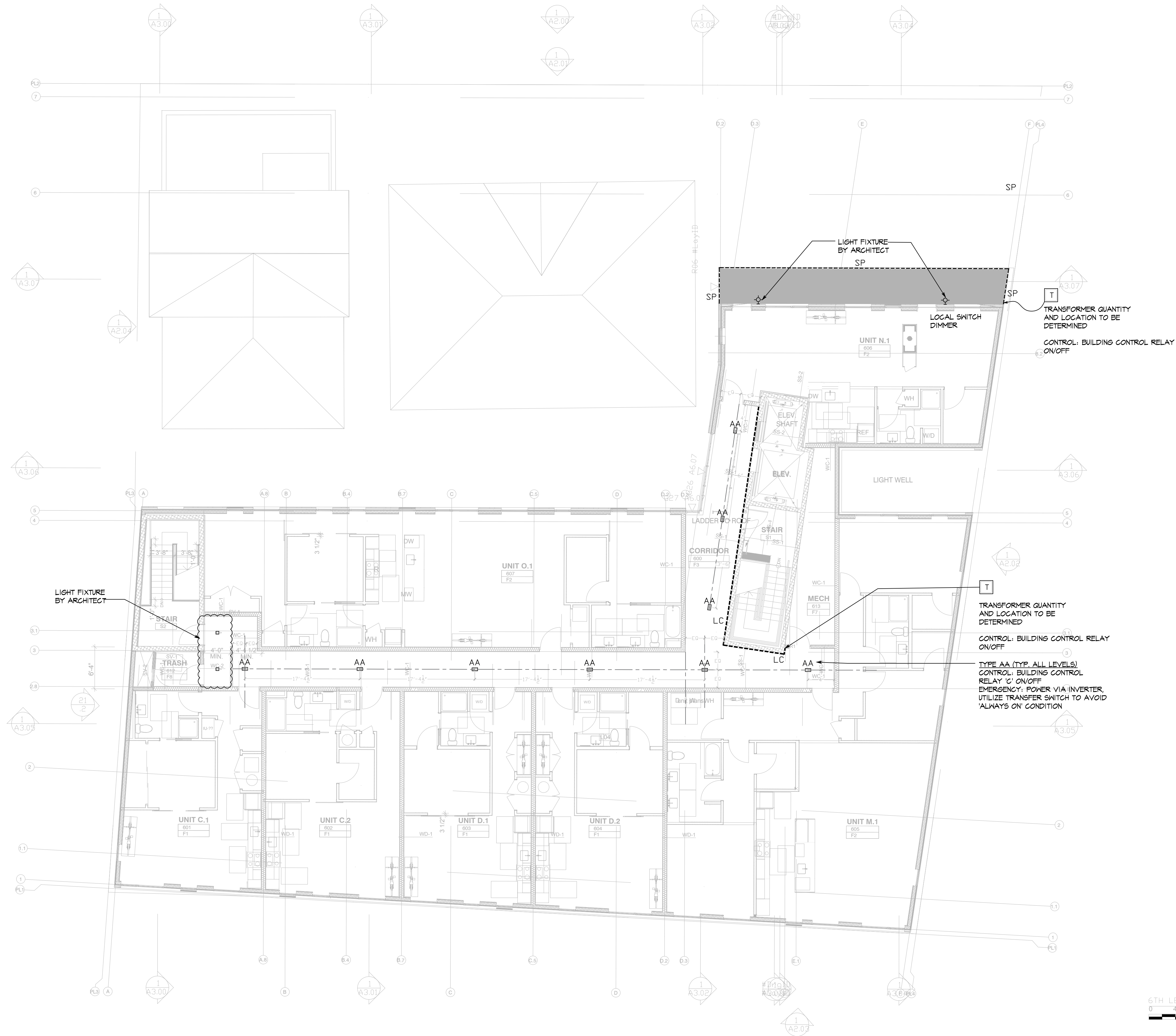




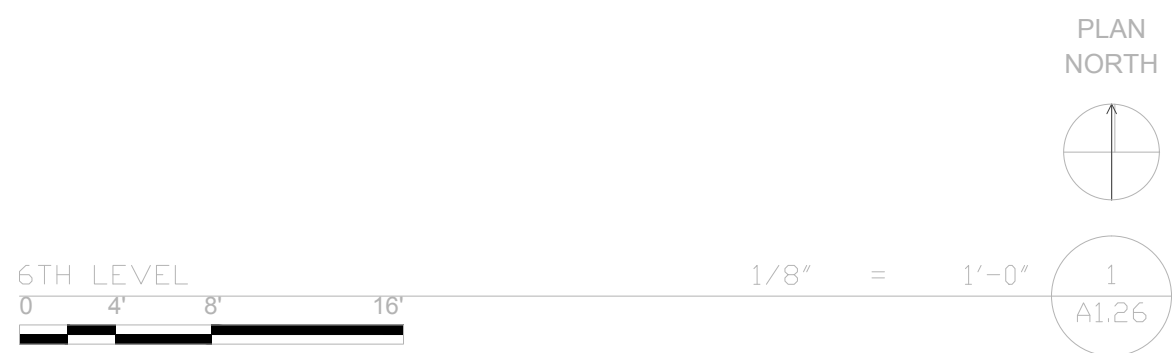


FIFTH FLOOR
LIGHTING PLAN





SIXTH FLOOR
LIGHTING PLAN



600 WEST MAIN STREET

CHARLOTTESVILLE, VA

ISSUE DATE: March 10, 2017

REVISIONS: A-04/06/17, B-04/07/17, C-04/11/17, D-04/18/17, E-05/15/17

TYPE	LUMINAIRE SPECIFICATION	LUMINAIRE DESCRIPTION	LAMP CODE	LAMPS/ UNIT	MAX WATTS/ UNIT	VOLTS	NOTES	REV.
AA	Contech Lighting RDA4L-1-xxK-xxD2-x-X2-WHT-N Or approved equal by: Reggiani, Indy Designer Cove Series, Lightolier, or Amerlux	Ceiling recessed trimless (mud-up-to) 2-lamp LED adjustable accent light with integral driver	N/A	N/A	25	120	1,10,11,14,25	C,D
AB	Contech Lighting RDA4L-1-xxK-xxD2-x-X1-WHT-N Or approved equal by: Reggiani, Indy Designer Cove Series, Lightolier, or Amerlux	Ceiling recessed trimless 1-lamp LED adjustable accent light	N/A	N/A	10	120	1,10,11,14,20,25	C,D
AC	Lumascap Lighting LS393LED-6H6-G-1-82-NM-21-x-13DIM	Floor recessed, adjustable accent luminaire for uplight. Rated for wet location. (0-10V dimming)	N/A	N/A	6	120 Prim 24 Sec	1,3,7	A,B,C

600 WEST MAIN STREET

CHARLOTTESVILLE, VA

ISSUE DATE: March 10, 2017

REVISIONS: A-04/06/17, B-04/07/17, C-04/11/17, D-04/18/17, E-05/15/17

TYPE	LUMINAIRE SPECIFICATION	LUMINAIRE DESCRIPTION	LAMP CODE	LAMPS/ UNIT	MAX WATTS/ UNIT	VOLTS	NOTES	REV.
DA	ConTech Lighting R2SQRM 1 30K-MVD-F/C2322SQ-SL Or approved alternate by: Amerlux, Reggiani, Juno, or Lightolier	2" square LED recessed downlight (ELV dimming)	N/A	N/A	10	120 Prim	1,10,11,14,20,25	A,B,D
DB	ConTech Lighting R2SQRM 1 30K-MVD-F/C2322SQ-SL Or approved alternate by: Amerlux, Reggiani, Juno, or Lightolier	2" square LED recessed downlight (ELV dimming)	N/A	N/A	10	120 Prim	1,10,11,14,20,25	C,D
LA	LED Linear I R W 4262 SP HE 30 B x xx Or approved alternate	Surface mounted linear LED grazer within recessed slot at lounge divider. Remote driver(s) required (0-10V dimming)	Integral LED 3000K	N/A	10/ft	TBD	1,3,8,12,16,22	C
LB	Not used							A
LC	Pure Lighting Verge Ceiling Series VGCE-5WDC-xx'-30K Or approved equal by: DeltaLight USA or Dado Light	Linear LED striplight mud-up-to channel at core wall in elevator lobbies with remote driver(s)	N/A	N/A	5/ft	120 Prim 24 Sec	1,2,3,5,8,10,12,16,21,22,25	A,B,C
LD	Not used							A

600 WEST MAIN STREET

CHARLOTTESVILLE, VA

ISSUE DATE: March 10, 2017

REVISIONS: A-04/06/17, B-04/07/17, C-04/11/17, D-04/18/17, E-05/15/17

TYPE	LUMINAIRE SPECIFICATION	LUMINAIRE DESCRIPTION	LAMP CODE	LAMPS/ UNIT	MAX WATTS/ UNIT	VOLTS	NOTES	REV.
LE	Pure Lighting Verge Wall Series VG-5WDC-xx'-30D Or approved equal by: DeltaLight USA or Dado Light	Linear LED mud-up-to wall integrated uplight in lounge (0-10V dimming)	N/A	N/A	5/ft	120 Prim 24 Sec	1,2,3,5,8, 10,12,16, 20,21,22, 25	A,B,C
LF	Flos (3)06.1105.00/(2)08.8914.00/(1)06. 1140.00/(1)LED96W24V/(6)06.1142. 00A90	Wall recessed, vertical linear LED line of light. (Ordering code based on a nominal 10' length.)	N/A	N/A	6/ft	120 Prim 24 Sec	1,2,3,5,8, 10,12,16, 21,22,23,2 5	A,B,C
LG	Pinnacle Lighting EV3WG-30-xx'-SF-1D-W Or approved alternate by: Finelite or Focal Point	Ceiling recessed LED wall grazing light with mud -up-to edge (0-10V dimming)	N/A	N/A	6/ft	120	1,2,3,10, 16,21,25	A,B,C
RA	To be determined	Decorative pendant at ground level elevator lobby	N/A	N/A	50	120	1,2,4	B,C
SA	Vista Lighting GR-3108-x-9.5-x-xx-HL Or approved equal by: BK Lighting or Aurora Lighting	Ground mounted LED tree uplight	N/A	N/A	15	As Req'd	1,3,6,20,2 4	B,C

600 WEST MAIN STREET

CHARLOTTESVILLE, VA

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TYPE	LUMINAIRE SPECIFICATION	LUMINAIRE DESCRIPTION	LAMP CODE	LAMPS/ UNIT	MAX WATTS/ UNIT	VOLTS	NOTES	REV.
SB	LED Linear Kalypso Hydra HD15-W827-xxmm- with clips/feeds and remote drivers as required Or approved equal by: Bilton or Rosco	Linear ingrade LED uplight at Corten entry portals	N/A	N/A	5/ft	120 Prim 24 Sec	1,3,7,8,12,1 3,16,21,22, 24	B,C
SC	Not Used							B
SD	Vista Lighting GR-3108-x-9.5-x-xx-HL Or approved equal by: BK Lighting	Ground mounted LED accent light between pleached hedges	N/A	N/A	10	As Req'd	1,3,6,20,2 4	C
SE	Artemide T087408	Pathway light at seating group	N/A	N/A	20	As Req'd	1,24	B,C,E
SF	Color Kinetics eW Flex Compact 500-000012-07/108-000045- XX/POWER SUPPLY Or approved equal by: Traxon or Tokistar	LED light points woven into trellis structure	N/A	N/A	1/ft	As Req'd	1,2,8,12, 13,16,20, 21,22,24	C

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TYPE	LUMINAIRE SPECIFICATION	LUMINAIRE DESCRIPTION	LAMP CODE	LAMPS/ UNIT	MAX WATTS/ UNIT	VOLTS	NOTES	REV.
SG	LED Linear VarioLED-Hydra-LD10-W820 (net 25k)in C002-L20-IP67-xxmm-open end feed 5 meters Or approved equal by: Bilton or Rosco	Linear LED striplight mounted behind Corten wall in courtyard. Remote driver(s) required	N/A	N/A	4/ft	120 Prim 24 Sec	1,2,3,8,12, 13,16,20, 21,22,24	B,C
SH	Hydrel PDX4-SS-9LED-WHTxxK-120-xx-FLCAS-xxx-TKO-IDIM Or approved equal by: Kim Lighting or Lumascape Lighting	Direct burial LED uplight at courtyard Corten wall	N/A	N/A	10	120	1,3,7,20,2 4	C
SJ	LED Linear VarioLED-Hydra-LD10-W820(net 25k) in C002-L2D-IP67-open end feed 5 meters Or approved equal by: Bilton or Rosco	Linear LED striplight mounted at edge of planter box. Remote driver(s) required.	N/A	N/A	4/ft	120 Prim 24 Sec	1,3,8,12, 13,16,20, 21,22,24	B,C
SK	LED Linear Adonis Hydra HD6-W820(24k)0639-IP67 Or approved equal by: Bilton or Rosco	24" nominal linear LED accent luminaire at bike rack elements. Remote driver(s) required	N/A	N/A	2/ft	120 Prim 24 Sec	1,3,8,12, 13,16, 21,22,24	A,B,C

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TYPE	LUMINAIRE SPECIFICATION	LUMINAIRE DESCRIPTION	LAMP CODE	LAMPS/ UNIT	MAX WATTS/ UNIT	VOLTS	NOTES	REV.
SL	LED Linear VarioLED-HYDRA-LD25-W835(net 51k) in C016-D30°-IP67-xxmm-open end feed 5 meters Or approved equal by: Bilton or Rosco	Exterior rated Linear LED grazing fixture. Remote driver(s) required.	N/A	N/A	9/ft	120 Prim 24 Sec	1,3,8,9, 12,13,16, 21,22,24	A,B,C
SM	LED Linear VarioLED Hydra-LD10-W835 (net 51k)in C016-D30°-IP67-xxmm-open end feed 5 meters Or approved equal by: Bilton or Rosco	Exterior rated Linear LED grazing fixture at entry portals. Remote driver(s) required	N/A	N/A	4/ft	120 Prim 24 Sec	1,2,3,8, 12,13,16, 21,22,24	A,B,C
SN	LED Linear Kalypso-Hydra-HD15-W827-xxxxmm-10°-IP67-ELDO 211-include clips and feeds Or approved equal by: Bilton or Rosco	Exterior rated linear LED grazing downlight. Remote driver(s) required (0-10V dimming)	N/A	N/A	5/ft	120 Prim 24 Sec	1,2,3,8, 12,13,16, 21,22,24	A,B,C

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TYPE	LUMINAIRE SPECIFICATION	LUMINAIRE DESCRIPTION	LAMP CODE	LAMPS/ UNIT	MAX WATTS/ UNIT	VOLTS	NOTES	REV.
SO	LED Linear VarioLED -Hydra-LD10-W820 (net 25k)in C016-D30°-IP67-xxmm-open end feed 5 meters Or approved equal by: Bilton, Rosco, or OmniLight	Exterior rated, low profile, LED grazing uplight for inset panels	N/A	N/A	4/ft	120 Prim 24 Sec	1,2,3,8,9, 12,13,16, 21,22,24	A,B,C
SP	LED Linear VarioLED-Hydra-LD10-W835(net51K) in C013-D30°-IP67-open end feed 5 meters Or approved equal by: Bilton or Rosco	Exterior rated, low profile, LED grazing uplight for balcony panels. Remote driver(s) required	N/A	N/A	4/ft	120 Prim 24 Sec	1,2,3,8,9, 12,13,16, 21,22,24	A,B,C
SR	Pinnacle Lighting EV3WG-30-xx'-SF-1D-W Or approved alternate by: Finelite or Focal Point	Ceiling recessed LED wall grazing light with mud -up-to edge (0-10V dimming)	N/A	N/A	6/ft	120	1,2,3,9, 10,16,25	A,B,C
TA	ERCO 78352.023	Recessed, multi-circuit track.	N/A	N/A	N/A	120	1,2,3,16, 17,18,25	A,C

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TYPE	LUMINAIRE SPECIFICATION	LUMINAIRE DESCRIPTION	LAMP CODE	LAMPS/ UNIT	MAX WATTS/ UNIT	VOLTS	NOTES	REV.
TB	ERCO Optec series 77167.023	Trackhead with interchangeable lensed optic system supporting local potentiometer + line voltage dimming.	Integral 3000K LED	N/A	16	120	19,20	A,C
TC	ERCO Optec series 77183.023	Trackhead with interchangeable lensed optic system supporting local potentiometer + line voltage dimming.	Integral 3000K LED	N/A	16	120	19,20	A,C
DEDUCT ALTERNATES FOR TYPES TA, TB AND TC								
TA DEDUCT	ConTech Lighting NTEK4xx-P/NFTP Or approved alternate: Amerlux, Juno or Clarte	Recessed, multi-circuit track.	N/A	N/A	N/A	120	1,2,3,16, 17,18,25	B,C
TB DEDUCT	ConTech Lighting CTL802818LH-x-3-D-P-LA35-SL- NKTD70 Or approved alternate: Amerlux, Juno or Clarte	LED track head with line voltage dimming.	Integral 3000K LED	N/A	18	120	19,20	B,C
TC DEDUCT	ConTech Lighting CTL802818LH-F-3-D-P-LS- NKTD70 Or approved alternate: Amerlux, Juno or Clarte	LED track head with line voltage dimming.	Integral 3000K LED	N/A	18	120	19,20	B,C

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General/Substitutions/Submittals Process

- a. This lighting fixture schedule was developed specifically by the Lighting Designer for areas within their scope of work. All notes and specifications contained within this document shall take precedence over conflicting elements contained within Division 26 of the project specifications unless noted otherwise or as clarified by the Electrical Contractor with the Owner, Architect, Engineer, and Lighting Designer.
- b. Distributor net pricing has been provided to the owner as part of a Pre-Bid budgeting exercise. Contractor shall provide final per unit equipment costs as part of their bid without markup for distribution or installation. Luminaire cash allowance provided in the lighting fixture schedule represents a distributor net price.
- c. Any substitution manufacturer must be pre-approved by Lighting Consultant and exhibit equivalent performance, quality of construction, and appearance as specified product contained herein.
- d. Any manufacturer offering a substitution to the specification contained herein shall be able to provide an equivalent option for all of the specified types of the same manufacturer.
- e. The shop drawing submittal requires a scaled drawing indicating the following information:
 - Key Dimensions
 - Materials and their finishes
 - Mechanical fasteners and attachments clearly indicated
 - Approximate weight
 - Special onsite assembly or installation requirements

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- f. Submittal of lighting equipment not specifically listed and meeting the general requirements above, shall include the following information. Failure to submit any one of the above materials may cause the submittal to be returned unreviewed.
 - a. Manufacturer's original color cut sheet
 - b. Scaled shop drawing, showing all key dimensions and materials
 - c. IESNA format photometric test report
 - d. If requested by the Lighting Consultant, computer aided lighting calculations may be required to demonstrate predictable performance with the submitted product for the Project's specific application and layouts.
 - e. An operable, 120 volt non-refundable sample complete with lamp(s) and 72 inch grounded cord and plug, shall be supplied. Sample shall be provided as specified with correct lamping along with any and all accessories or special mounting hardware.
- g. Contractor shall conduct detailed survey of project site conditions to determine exact quantities of each fixture type shown on drawings, verifying specific fixture positions and access requirements as needed.
- h. Architect and/or Lighting Consultant to select finish from manufacturer's standard finishes or provide a RAL color code during shop drawing submittals.
- i. Contractor shall be responsible for final targeting/focusing of adjustable light fixtures under the observation of, and according to, the recommendations of the Lighting Designer. Aiming shall take place after dark (except in areas with no daylight impact), at a mutually agreed upon time, after all relevant amenities' (furniture, millwork, artwork, landscape, water feature, etc.) have been installed. All costs associated with this effort shall be included in the base bid by the Electrical Contractor. These measures can include, but are not necessarily limited to; scaffolding ladders and lifts. Additionally, contractor shall supply all necessary surface protection for surrounding materials, as dictated by the Owner and/or General Contractor. When made necessary by the project conditions, contractor shall make arrangements to protect flooring materials from potential damage caused by the use of lifts and related equipment during lighting adjustments. These accommodations must be included in the contractor's Base Bid.

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Lighting Fixture Schedule Notes

- 1 Exact fixture location to be verified with field conditions and confirmed with Architect or Lighting Designer prior to final installation
- 2 Fixture shall be mounted to structure in a manner recommended by the manufacturer and so as not to compromise the integrity of the structure
- 3 Refer to architectural details for further mounting data.
- 4 For all decorative pendants, chandeliers, bracket lights and sconces, contractor shall verify exact suspension/mounting heights with Architect and Lighting Designer prior to final installation.
- 5 This fixture is recessed flush within wall construction. Contractor shall verify, and supply, all necessary mounting and installation hardware required to ensure a safe, secure, code compliant application. If necessary, Contractor shall pre-order back boxes for fixture to be installed prior to arrival of optical/lamp assembly, in order to avoid compromises in schedule.
- 6 Light fixture's exact position, with respect to tree/hedge which is to be illuminated, will be finalized in field with Landscape Architect and/or Lighting Designer, prior to final rough-in.
- 7 This fixture is mounted flush to grade in hardscape paving at locations indicated on Landscape Architectural drawings. See detail for further mounting information.
- 8 Verify conductor size compatibility with voltage drop after final circuit route has been determined.
- 9 Fixtures shall be mounted end to end and through wired with no gaps between units and in accordance with architectural details and manufacturer's recommendations.
- 10 Once illuminated, this recessed fixture shall exhibit no light leaking between its flange and the ceiling into which it is mounted. The most common causes for such light leaks are: the failure to properly level the fixture flush with the ceiling surface; and the cutting of a hole in the ceiling that is either too large, or exhibits "ragged" edge cuts that produce openings through which light can pass.
- 11 This recessed fixture's throat must be mounted such that its bottom edge is flush and level with the surface of the ceiling, per the manufacturer's instructions. Failure to comply with this requirement will mandate the releveling or reinstallation of the fixture in accordance with the guideline at the contractor's expense.

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- 12 Transformer/driver for this fixture shall be remoted in nearby accessible, concealed-from-view location with recommended ventilation available. Contractor shall supply manufacturers standard transformer of appropriate capacity as determined from lengths shown on drawings and verified in field. The distance of this transformer from the light source(s) shall be within manufacturer's recommendation for given wire size.
- 13 Contractor shall verify with Architect or Owners Representative the routing of any exposed conduit necessary for the mounting of this fixture. Whenever possible, conduit shall be concealed by structure or routed within wall or ceiling cavities
- 14 Prior to procurement of specified recessed lighting equipment, contractor shall verify ceiling cavity clearances for all application areas to ensure compatibility. Potential conflicts shall be brought to the attention of the Owner's representative for resolution in a timely manner, so as not to affect project schedule or costs.
- 15 Power for fixture shall be supplied from the interior of the building at façade drill-through locations identified by Contractor and approved by Owner. Termination wiring shall be made within surface mounted junction box installed immediately adjacent to fixture. Junction box shall be painted to match brick to which it is attached, using an appropriate exterior grade paint suitable for such application.
- 16 Contractor shall supply all miscellaneous mounting hardware, including fastening devices, cable, junction boxes, etc. to ensure a complete code compliant installation as per manufacturers recommendations.
- 17 This track mounted luminaire may be attached and tested by the Contractor for operation on the track to which it is shown installed. Once tested to ensure proper operation, it should be turned off using the on/off rocker switch supplied Integral to the luminaire. Should the luminaire not possess an integral switch, then the specific breakers controlling the track head and its companion track shall be turned to off positions. Failing these two measures, the track head can be disengaged, and stored until final use, after operational testing. Track mounted luminaires shall be turned on again for final focusing and adjustment, just prior to project completion. Fixtures shall not be used for general work light or ambient illumination during construction. Failure to comply with this directive will dictate relamping of all fixtures utilized in this way, prior to turn over to Owner.
- 18 Contractor shall supply all necessary electrical and mounting hardware to provide a completely functional, code-compliant track system mounted and installed in accordance with the manufacturers recommendations. Contractor shall determine from drawings; track lengths, feeds, joiners, caps, clips, canopies and pendants required, and order said equipment from specified manufacturer.
- 19 Track head positions shown are approximate and may require relocation during final aiming/focusing, including moves from one run of track to another. Contractor shall include time and materials in the Base Bid to accommodate the possibility of these relocations.

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- 20 Should this fixture be included on a dimming system, Contractor shall verify driver compatibility with dimming system and dimming module type required. Contractor shall notify Owner, Lighting Designer, and Electrical Engineer with any compatibility inconsistencies prior to ordering lighting equipment.
- 21 Contractor shall supply manufacturer's standard leader cables, jumper/interconnection cables, and other miscellaneous operational gear required to render system functional.
- 22 Power supply/driver for this fixture shall be remoted in nearby accessible, concealed-from-view location with recommended ventilation available. Contractor shall supply manufacturers standard power supply/driver of appropriate capacity as determined from lengths shown on drawings and verified in field. The distance of this power supply/driver from the light source(s) shall be within manufacturer's recommendation for given wire size. Locations to be approved by Architect and/or Lighting Designer.
- 23 This luminaire is a unique design, available only from the specified manufacturer. No attempt should be made to solicit bids from other manufacturers to copy or "knock-off" the luminaire design. Attempts to do so may, at the discretion of the Owner, invalidate the entire lighting bid and exclude the contractor from further consideration.
- 24 Fixture shall be rated and labeled "suitable for wet locations."
- 25 Fixture includes plaster trim. Electrical Contractor shall coordinate with General Contractor to properly integrate fixture mounting with drywall construction as recommended by fixture manufacturer. Contractor shall protect interior of fixture and fixture trim against drywall mudding compound and paint. Contractor shall mud up t fixture as per manufacturers instructions.



Catalog No. _____

Type _____

Project _____

RDA4L Series

Mini O2 Multiple LED Recessed Downlight Adjustables

Specifications/Features

Housing/Mounting

High performance fixture delivering over 1400 lumens per head.
New construction housing design can also be used in remodel applications.
From single to four head units available. The four head unit is available in two configurations: rectilinear and two-by-two square.
Housing may be used for trimmed or trim-less applications.
Heavy duty 18-gauge steel housing; powder coat painted in matte black, white or silver.
Housing weights: 1-head = 5lbs, 2-head = 8lbs, 3-head = 11lbs, 4-head = 13lbs, 4-head 2X2 = 13lbs
Complete fixture [heads, drivers and junction box] can be accessed from below the ceiling.
Wing type mounting brackets allow for 3" vertical adjustment. Brackets will accept optional HB-24 flat hanger bars or HBC-24 "C" channel hangers.

Electrical

UL8750 and Class 2 Compliant; RoHS Compliant, US only.
Output over voltage, over-current and short circuit protection.
Approved for through circuit wiring. Maximum of (8) No. 12 AWG branch circuit conductors (4 in, 4 out).
Junction box has (9) 1/2" pry-outs.
Wire rating: 90°C. Thermally protected.

Lamp

Light engine consists of a single, high lumen output multi-chip LED array available in two wattage/lumen packages: 10W/1100lm and 14W/1400lm.
Excellent fixture-to-fixture color consistency within a 2-step MacAdam ellipse tolerance.
Precision TIR optics produce 12°, 29° and 37° beam distributions. Each TIR optic has been optically engineered to provide a smooth uniform beam, maximizing output and minimizing glare.
System designed and rated for 50,000 hours at 70% lumen maintenance.
Lamp heads feature a constant tension design for tilt and rotation adjustability. Tilt mechanism can also be locked into place with a provided allen wrench.
Lamp heads provide 370° rotation and 45° tilt adjustability inside housing. For increased adjustability, the lamp head features a firm-feel detent pull-down mechanism (2" extension) which allows the head to tilt up to 90°. The pull-down mechanism can also be locked into place with a provided allen wrench.
Optional FA-44 Snoot/Accessory Holder accepts up to (2) LF16 60MM lenses or FA-16 60MM black honeycomb louver.

Trim Options

Trimmed

Steel powder coat matte black, white and silver trims are available.
Steel torsion springs provide secure retention in housing.

Trimless

Allows ceiling to be finished and painted right to the aperture opening for a clean appearance. Trimless frame is steel with a matte white powder coat finish.

Dimming

All RDA4L Series fixtures are available for non-dimming and dimming applications.

Warranty

This fixture is covered by ConTech's five (5) year full replacement guarantee after date of purchase.

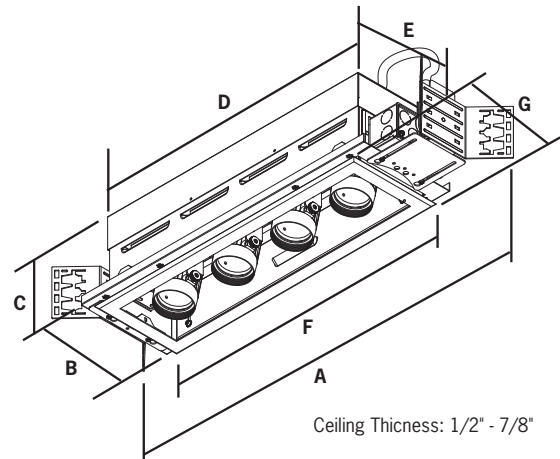
Listing

cCSAus Certified to UL standards.
Suitable for dry or damp locations.
cCSAus Certified to UL924 Standard for Emergency Lighting.
Assembled in the USA.



	Series-1	Series-2
Input Voltage		
Non-Dimming	120V AC, 50/60Hz	120V AC, 50/60Hz
Non-Dimming	277V AC, 50/60Hz	277V AC, 50/60Hz
0-10V Dimming	120V AC, 50/60Hz	120V AC, 50/60Hz
0-10V Dimming	277V AC, 50/60Hz	277V AC, 50/60Hz
Triac Dimming (F. Phase)	120V AC, 50/60Hz	120V AC, 50/60Hz
Non-Dimming	277V AC, 50/60Hz	277V AC, 50/60Hz
ELV Dimming (R. Phase)	120V AC, 50/60Hz	120V AC, 50/60Hz
Non-Dimming	277V AC, 50/60Hz	277V AC, 50/60Hz
Input Wattage*	10	14
Input Current (A)* 120/277	.08/.04	.12/.05
Color Temp	2700K/3000K/ 3500K/4000K	2700K/3000K/ 3500K/4000K
CRI Standard/High	83 (80min) / 90+	83 (80min) / 90+
Driver		
Power Factor	> 0.90	> 0.90
THD	< 20%	< 20%
Dimming		
0-10V Dimming	15-100%	15-100%
Triac Dimming (F. Phase)	10-100% (120V Only)	10-100%
ELV Dimming (R. Phase)	10-100% (120V Only)	10-100%

*Based upon a single head



MODEL	OVERALL			HOUSING		TRIM EDGE = 1"		CEILING CUT-OUT	
	LENGTH A	WIDTH* B	HEIGHT C	LENGTH D	WIDTH E	LENGTH F	WIDTH G	LENGTH	WIDTH
X1	15-1/2"	6-7/8"	6-3/4"	5-7/8"	5-1/4"	6-9/16"	6-9/16"	6-1/8"	5-1/2"
X2	20-1/4"	6-7/8"	6-3/4"	10-9/16"	5-1/4"	11-5/16"	6-9/16"	10-7/8"	5-1/2"
X3	24-7/8"	6-7/8"	6-3/4"	15-5/16"	5-1/4"	16"	6-9/16"	15-5/8"	5-1/2"
X4	29-5/8"	6-7/8"	6-3/4"	20"	5-1/4"	20-3/4"	6-9/16"	20-5/16"	5-1/2"
X22	20-1/4"	11-5/8"	6-3/4"	10-9/16"	9-15/16"	11-5/16"	11-5/16"	10-7/8"	10-1/4"

*WING BRACKET (RL-KIT #3) WIDTH = 7-3/8"



Catalog No. _____

Type _____

Project _____

RDA4L Series

Mini 02 Multiple LED Recessed Downlight Adjustables

Ordering information

Example Order: -

Housing	LED Series	Color Temp	Electrical/Dimming	Beam	Lamps	Housing/ Head Finish	Trim Finish	Options
RDA4L	1 - 1100 Lumens 2 - 1400 Lumens	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 27KC - 2700K, 90+ CRI 30KC - 3000K, 90+ CRI 35KC - 3500K, 90+ CRI 40KC - 4000K, 90+ CRI	12 - 120V Non-Dimming 27 - 277V Non-Dimming 12D1 - 120V TRIAC (F. Phase) Dimming 12D2 - 120V 0-10V Dimming 27D2 - 277V 0-10V Dimming 12D5 - 120V ELV (R. Phase) Dimming	S - 12° Beam M - 29° Beam F - 37° Beam	X1 - One Square X2 - Two Linear X3 - Three Linear X4 - Four Linear X22 - Four Square 2x2	BLK - Matte Black WHT - Matte White SL - Satin Silver	B - Matte Black P - Matte White S - Satin Silver N - Trimless	CP¹ - Chicago Plenum ER² - Factory Installed 7W/200mA Emergency Battery Backup, Remote Test Switch EP² - Factory Installed 7W/200mA Emergency Battery Backup, Internal Test Switch Installed in Side Wall of Housing

Consult factory when different beams, color temperatures, lumen packages, or multiple circuits (2-maximum) are required in a single multiple-head fixture.

1. Chicago Plenum is not available for use with Series 2. Cannot be used with the Emergency Battery Backup option.
2. Emergency Battery Backup: For use in new construction applications only - requires above ceiling access. Will only energize one (1) head on a multi-head unit - 400 lumen nominal average for either Series 1 or Series 2.

Accessories



- 2INOPTIC-S** - 2" TIR Optic, 12° Beam
- 2INOPTIC-M** - 2" TIR Optic, 29° Beam
- 2INOPTIC-F** - 2" TIR Optic, 37° Beam
- HB-24** - 27" Flat Hanger Bars
- HBC-24** - 25" C-Channel Hanger Bars
- FA-16 60MM** - 2-3/8" Dia. Black Honeycomb Louver
- FA-44-(B, P, S)** - 1" Snoot/Accessory Holder
- LF16-* 60MM** - 2-3/8" Dia. Tempered Glass Lenses; Requires FA-44 Snoot/Accessory Holder

Note: When a Snoot, Louver, or Lens is desired, ensure the same quantity is ordered as the number of heads on the unit, e.g. a two-head unit would require two media be ordered.

*Color/Pattern Legend

- A (Amber), -B (Blue), -CL (Clear), -G (Green), -LB (Light Blue), -R (Red), -RO (Rose), -Y (Yellow), -73 (Spread Lens), -LS (Linear Spread Lens), -SL (Soft Light), -SOL (Solite), -UV (Optivex UV Filter)



Catalog No. _____

Type _____

Project _____

RDA4L Series

Mini O2 Multiple LED Recessed Downlight Adjustables

Photometrics

Multiplication Factors

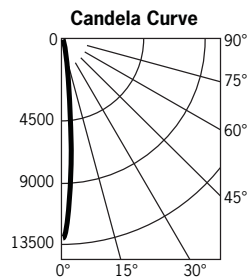
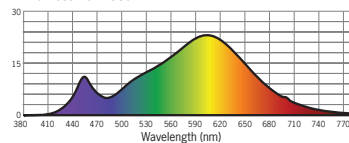
CCT	STANDARD CRI	HIGH CRI	SERIES 1, 11W
2700K	0.94	0.70	0.75
3000K	N/A	0.75	0.75
3500K	1.0	0.81	0.75
4000K	1.0	0.87	0.75

Photometric and wattage information are based upon test performance for a single head unit

14W Spot Beam, 3000K: RDA4L230K12D1SX1

Designed for 50,000 Hour Lamp Life¹; LM-63 Test No. 87351

Light Output (Fixture Delivered Lumens): 1184
Total Watts@120V: 13.8; Lumens Per Watt: 85.8
Center Beam Candle Power: 13269
Color Rendering Index (CRI)²: 83
Color Temperature (CCT)³: 3073K
Spectral Power Distribution Chart⁴
LM-79 Test No. 78891



FROM 0	CANDELA	LUMENS
0	13269	
5	8506	617
15	1364	394
25	190	99
35	33	23
45	20	15
55	15	13
65	12	12
75	6	7
85	3	3
95	0	

Intensity Distribution

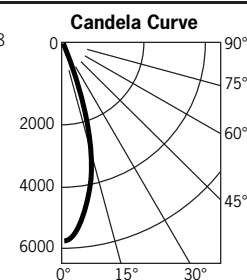
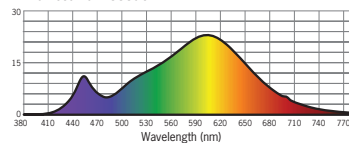
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	829.3	0.9
6'	368.6	1.3
8'	207.3	1.7
10'	132.7	2.2
12'	92.1	2.6
14'	67.7	3.0

Beam Distribution: 12°
Spacing Criterion: 0.22

14W Medium Beam, 3000K: RDA4L230K12D1MX1

Designed for 50,000 Hour Lamp Life¹; LM-63 Test No. 87352

Light Output (Fixture Delivered Lumens): 1432
Total Watts@120V: 13.8; Lumens Per Watt: 103.8
Center Beam Candle Power: 5909
Color Rendering Index (CRI)²: 83
Color Temperature (CCT)³: 3086K
Spectral Power Distribution Chart⁴
LM-79 Test No. 78890



FROM 0	CANDELA	LUMENS
0	5909	
5	5481	486
15	2711	718
25	278	179
35	52	35
45	10	9
55	3	2
65	1	1
75	1	1
85	0	0
95	0	

Intensity Distribution

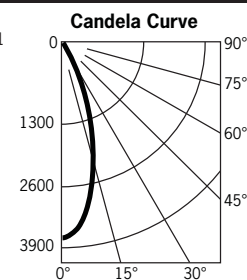
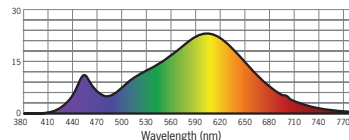
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	369.3	1.9
6'	164.1	2.9
8'	92.3	3.8
10'	59.1	4.8
12'	41.0	5.7
14'	30.1	6.7

Beam Distribution: 29°
Spacing Criterion: 0.46

14W Flood Beam, 3000K: RDA4L230K12D1FX1

Designed for 50,000 Hour Lamp Life¹; LM-63 Test No. 87353

Light Output (Fixture Delivered Lumens): 1478
Total Watts@120V: 13.8; Lumens Per Watt: 107.1
Center Beam Candle Power: 3752
Color Rendering Index (CRI)²: 83
Color Temperature (CCT)³: 3061K
Spectral Power Distribution Chart⁴
LM-79 Test No. 79250



FROM 0	CANDELA	LUMENS
0	3752	
5	3450	310
15	2254	625
25	960	429
35	115	82
45	25	22
55	5	5
65	3	3
75	2	2
85	1	1
95	0	

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	234.5	2.3
6'	104.2	3.5
8'	58.6	4.6
10'	37.5	5.8
12'	26.1	7.0
14'	19.1	8.1

Beam Distribution: 37°
Spacing Criterion: 0.58

1. Accuracy of rendering colors
2. Color appearance of light source
3. Colors present within the light source

⁴Dependent on surrounding temperatures



Catalog No. _____

Type _____

Project _____

RDA4L Series

Mini O2 Multiple LED Recessed Downlight Adjustables

Specifications/Features

Housing/Mounting

High performance fixture delivering over 1400 lumens per head.
New construction housing design can also be used in remodel applications.
From single to four head units available. The four head unit is available in two configurations: rectilinear and two-by-two square.
Housing may be used for trimmed or trim-less applications.
Heavy duty 18-gauge steel housing; powder coat painted in matte black, white or silver.
Housing weights: 1-head = 5lbs, 2-head = 8lbs, 3-head = 11lbs, 4-head = 13lbs, 4-head 2X2 = 13lbs
Complete fixture [heads, drivers and junction box] can be accessed from below the ceiling.
Wing type mounting brackets allow for 3" vertical adjustment. Brackets will accept optional HB-24 flat hanger bars or HBC-24 "C" channel hangers.

Electrical

UL8750 and Class 2 Compliant; RoHS Compliant, US only.
Output over voltage, over-current and short circuit protection.
Approved for through circuit wiring. Maximum of (8) No. 12 AWG branch circuit conductors (4 in, 4 out).
Junction box has (9) 1/2" pry-outs.
Wire rating: 90°C. Thermally protected.

Lamp

Light engine consists of a single, high lumen output multi-chip LED array available in two wattage/lumen packages: 10W/1100lm and 14W/1400lm.
Excellent fixture-to-fixture color consistency within a 2-step MacAdam ellipse tolerance.
Precision TIR optics produce 12°, 29° and 37° beam distributions. Each TIR optic has been optically engineered to provide a smooth uniform beam, maximizing output and minimizing glare.
System designed and rated for 50,000 hours at 70% lumen maintenance.
Lamp heads feature a constant tension design for tilt and rotation adjustability. Tilt mechanism can also be locked into place with a provided allen wrench.
Lamp heads provide 370° rotation and 45° tilt adjustability inside housing. For increased adjustability, the lamp head features a firm-feel detent pull-down mechanism (2" extension) which allows the head to tilt up to 90°. The pull-down mechanism can also be locked into place with a provided allen wrench.
Optional FA-44 Snoot/Accessory Holder accepts up to (2) LF16 60MM lenses or FA-16 60MM black honeycomb louver.

Trim Options

Trimmed

Steel powder coat matte black, white and silver trims are available.
Steel torsion springs provide secure retention in housing.

Trimless

Allows ceiling to be finished and painted right to the aperture opening for a clean appearance. Trimless frame is steel with a matte white powder coat finish.

Dimming

All RDA4L Series fixtures are available for non-dimming and dimming applications.

Warranty

This fixture is covered by ConTech's five (5) year full replacement guarantee after date of purchase.

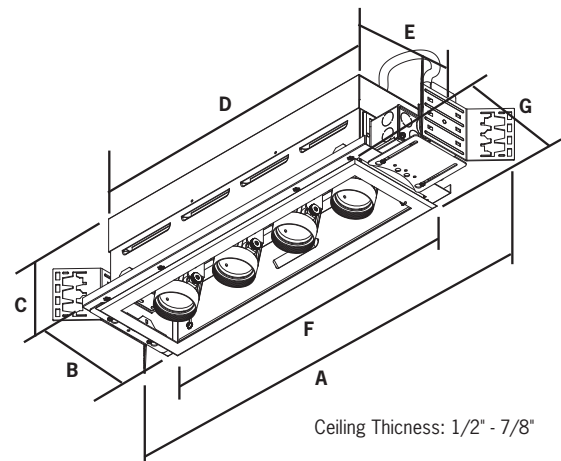
Listing

cCSAus Certified to UL standards.
Suitable for dry or damp locations.
cCSAus Certified to UL924 Standard for Emergency Lighting.
Assembled in the USA.



	Series-1	Series-2
Input Voltage		
Non-Dimming	120V AC, 50/60Hz	120V AC, 50/60Hz
Non-Dimming	277V AC, 50/60Hz	277V AC, 50/60Hz
0-10V Dimming	120V AC, 50/60Hz	120V AC, 50/60Hz
0-10V Dimming	277V AC, 50/60Hz	277V AC, 50/60Hz
Triac Dimming (F. Phase)	120V AC, 50/60Hz	120V AC, 50/60Hz
Non-Dimming	277V AC, 50/60Hz	277V AC, 50/60Hz
ELV Dimming (R. Phase)	120V AC, 50/60Hz	120V AC, 50/60Hz
Non-Dimming	277V AC, 50/60Hz	277V AC, 50/60Hz
Input Wattage*	10	14
Input Current (A)* 120/277	.08/.04	.12/.05
Color Temp	2700K/3000K/	2700K/3000K/
	3500K/4000K	3500K/4000K
CRI Standard/High	83 (80min) / 90+	83 (80min) / 90+
Driver		
Power Factor	> 0.90	> 0.90
THD	< 20%	< 20%
Dimming		
0-10V Dimming	15-100%	15-100%
Triac Dimming (F. Phase)	10-100% (120V Only)	10-100%
ELV Dimming (R. Phase)	10-100% (120V Only)	10-100%

*Based upon a single head



MODEL	OVERALL			HOUSING		TRIM EDGE = 1"		CEILING CUT-OUT	
	LENGTH A	WIDTH* B	HEIGHT C	LENGTH D	WIDTH E	LENGTH F	WIDTH G	LENGTH	WIDTH
X1	15-1/2"	6-7/8"	6-3/4"	5-7/8"	5-1/4"	6-9/16"	6-9/16"	6-1/8"	5-1/2"
X2	20-1/4"	6-7/8"	6-3/4"	10-9/16"	5-1/4"	11-5/16"	6-9/16"	10-7/8"	5-1/2"
X3	24-7/8"	6-7/8"	6-3/4"	15-5/16"	5-1/4"	16"	6-9/16"	15-5/8"	5-1/2"
X4	29-5/8"	6-7/8"	6-3/4"	20"	5-1/4"	20-3/4"	6-9/16"	20-5/16"	5-1/2"
X22	20-1/4"	11-5/8"	6-3/4"	10-9/16"	9-15/16"	11-5/16"	11-5/16"	10-7/8"	10-1/4"

*WING BRACKET (RL-KIT #3) WIDTH = 7-3/8"



Catalog No. _____

Type _____

Project _____

RDA4L Series

Mini 02 Multiple LED Recessed Downlight Adjustables

Ordering information

Example Order: -

Housing	LED Series	Color Temp	Electrical/Dimming	Beam	Lamps	Housing/ Head Finish	Trim Finish	Options
RDA4L	1 - 1100 Lumens 2 - 1400 Lumens	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 27KC - 2700K, 90+ CRI 30KC - 3000K, 90+ CRI 35KC - 3500K, 90+ CRI 40KC - 4000K, 90+ CRI	12 - 120V Non-Dimming 27 - 277V Non-Dimming 12D1 - 120V TRIAC (F. Phase) Dimming 12D2 - 120V 0-10V Dimming 27D2 - 277V 0-10V Dimming 12D5 - 120V ELV (R. Phase) Dimming	S - 12° Beam M - 29° Beam F - 37° Beam	X1 - One Square X2 - Two Linear X3 - Three Linear X4 - Four Linear X22 - Four Square 2x2	BLK - Matte Black WHT - Matte White SL - Satin Silver	B - Matte Black P - Matte White S - Satin Silver N - Trimless	CP¹ - Chicago Plenum ER² - Factory Installed 7W/200mA Emergency Battery Backup, Remote Test Switch EP² - Factory Installed 7W/200mA Emergency Battery Backup, Internal Test Switch Installed in Side Wall of Housing

Consult factory when different beams, color temperatures, lumen packages, or multiple circuits (2-maximum) are required in a single multiple-head fixture.

1. Chicago Plenum is not available for use with Series 2. Cannot be used with the Emergency Battery Backup option.
 2. Emergency Battery Backup: For use in new construction applications only - requires above ceiling access. Will only energize one (1) head on a multi-head unit - 400 lumen nominal average for either Series 1 or Series 2.

Accessories



- 2INOPTIC-S** - 2" TIR Optic, 12° Beam
2INOPTIC-M - 2" TIR Optic, 29° Beam
2INOPTIC-F - 2" TIR Optic, 37° Beam
HB-24 - 27" Flat Hanger Bars
HBC-24 - 25" C-Channel Hanger Bars
FA-16 60MM - 2-3/8" Dia. Black Honeycomb Louver
FA-44-(B, P, S) - 1" Snoot/Accessory Holder
LF16-* 60MM - 2-3/8" Dia. Tempered Glass Lenses;
 Requires FA-44 Snoot/Accessory Holder

Note: When a Snoot, Louver, or Lens is desired, ensure the same quantity is ordered as the number of heads on the unit, e.g. a two-head unit would require two media be ordered.

*Color/Pattern Legend

-A (Amber), **-B** (Blue), **-CL** (Clear), **-G** (Green), **-LB** (Light Blue), **-R** (Red), **-RO** (Rose), **-Y** (Yellow),
-73 (Spread Lens), **-LS** (Linear Spread Lens), **-SL** (Soft Light), **-SOL** (Solite), **-UV** (Optivex UV Filter)



Catalog No. _____

Type _____

Project _____

RDA4L Series

Mini O2 Multiple LED Recessed Downlight Adjustables

Photometrics

Multiplication Factors

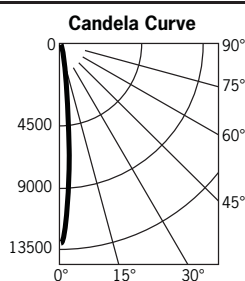
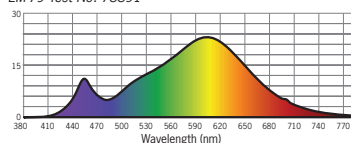
CCT	STANDARD CRI	HIGH CRI	SERIES 1, 11W
2700K	0.94	0.70	0.75
3000K	N/A	0.75	0.75
3500K	1.0	0.81	0.75
4000K	1.0	0.87	0.75

Photometric and wattage information are based upon test performance for a single head unit

14W Spot Beam, 3000K: RDA4L230K12D1SX1

Designed for 50,000 Hour Lamp Life¹; LM-63 Test No. 87351

Light Output (Fixture Delivered Lumens): 1184
Total Watts@120V: 13.8; Lumens Per Watt: 85.8
Center Beam Candle Power: 13269
Color Rendering Index (CRI)²: 83
Color Temperature (CCT)³: 3073K
Spectral Power Distribution Chart⁴
LM-79 Test No. 78891



FROM 0	CANDELA	LUMENS
0	13269	
5	8506	617
15	1364	394
25	190	99
35	33	23
45	20	15
55	15	13
65	12	12
75	6	7
85	3	3
95	0	

Intensity Distribution

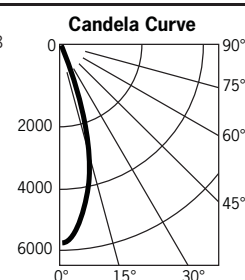
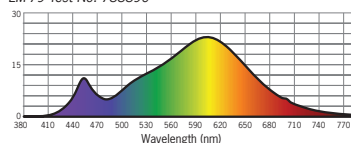
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	829.3	0.9
6'	368.6	1.3
8'	207.3	1.7
10'	132.7	2.2
12'	92.1	2.6
14'	67.7	3.0

Beam Distribution: 12°
Spacing Criterion: 0.22

14W Medium Beam, 3000K: RDA4L230K12D1MX1

Designed for 50,000 Hour Lamp Life¹; LM-63 Test No. 87352

Light Output (Fixture Delivered Lumens): 1432
Total Watts@120V: 13.8; Lumens Per Watt: 103.8
Center Beam Candle Power: 5909
Color Rendering Index (CRI)²: 83
Color Temperature (CCT)³: 3086K
Spectral Power Distribution Chart⁴
LM-79 Test No. 78890



FROM 0	CANDELA	LUMENS
0	5909	
5	5481	486
15	2711	718
25	278	179
35	52	35
45	10	9
55	3	2
65	1	1
75	1	1
85	0	0
95	0	

Intensity Distribution

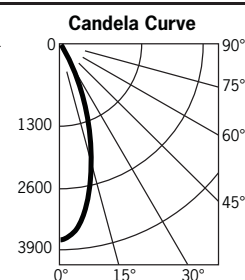
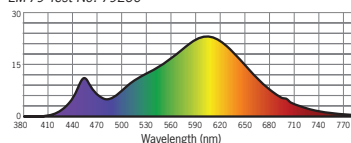
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	369.3	1.9
6'	164.1	2.9
8'	92.3	3.8
10'	59.1	4.8
12'	41.0	5.7
14'	30.1	6.7

Beam Distribution: 29°
Spacing Criterion: 0.46

14W Flood Beam, 3000K: RDA4L230K12D1FX1

Designed for 50,000 Hour Lamp Life¹; LM-63 Test No. 87353

Light Output (Fixture Delivered Lumens): 1478
Total Watts@120V: 13.8; Lumens Per Watt: 107.1
Center Beam Candle Power: 3752
Color Rendering Index (CRI)²: 83
Color Temperature (CCT)³: 3061K
Spectral Power Distribution Chart⁴
LM-79 Test No. 79250



FROM 0	CANDELA	LUMENS
0	3752	
5	3450	310
15	2254	625
25	960	429
35	115	82
45	25	22
55	5	5
65	3	3
75	2	2
85	1	1
95	0	

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
4'	234.5	2.3
6'	104.2	3.5
8'	58.6	4.6
10'	37.5	5.8
12'	26.1	7.0
14'	19.1	8.1

Beam Distribution: 37°
Spacing Criterion: 0.58

1. Accuracy of rendering colors
2. Color appearance of light source
3. Colors present within the light source

⁴Dependent on surrounding temperatures

1300 Industrial Road, Unit #19
San Carlos, CA 94070
FREE CALL 1-866-695-5862 US & Canada
info@lumascape.com

LUMASCAPE USA INC.

LS393LED

Ingrade



The LS393LED is a compact ingrade option featuring a 6 W LED module with output similar to a 50 W MR16. With options for line voltage input and dimming via Lumascape d5 driver technology, this inherently protected, compact luminaire is suitable for use in many locations where MR16-based luminaires cannot be used due to heat. Internal rotation and tilt adjustability ensures the most efficient light delivery can be set according to the site conditions.

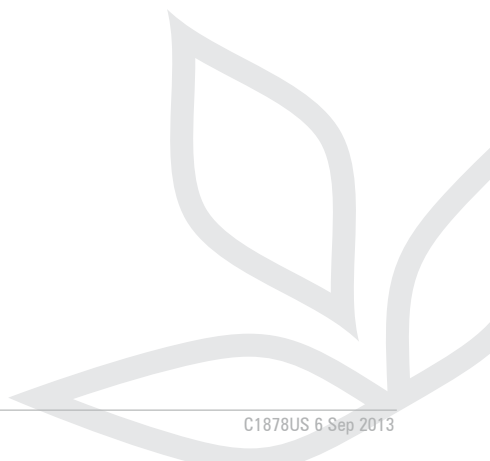
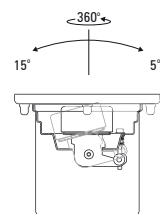
Specifications

Lamp Source	3 W or 6 W LED ☐ White (4 300 K typical) ☐ Warm white (3 000 K typical) ☐ Blue (470 nm) <i>Other colors by request</i> ☐ RGB
Approved Use	Suitable for wet locations Suitable for use in poured concrete Inherently protected
Lumen Maintenance (L70)	>60,000 hrs <i>Limited by TM-21 x6 rule</i>
Control Options	0-10 V (current sourcing) PWM On-site or factory-programmable brightness
IP Rating	IP68
Construction	316 marine grade stainless steel
Installation Types	Pre-Installation Blockout Concrete pour, drive-over & general use applications Direct Burial Landscapes, planters & special applications <i>(consult factory)</i>
Drive-over	With OptiClear™ lens and pre-installation blockout (LS637-K or LS637-K-SP)
Static Load Rating	4 400 lb (2 000 kg) with OptiClear™ lens and pre-installation blockout (LS637-K or LS637-K-SP) <i>(Load applied to center of glass across a 2" diameter area)</i>
Impact Rating	IK9 with OptiClear™ lens
Standard Inclusions	Teflon coated cover screws MicroAntiLeach™ wire entry Internal glare control louver
Accessories	LS637-K/LS637-K-SP pre-installation blockout <i>For other options, or U</i>
Remote Transformers / Power Supplies	Refer to Technical Data section for application specific options <i>Order separately</i>
Ambient Operating Temperature	-22 °F to 122 °F (-30 °C to +50 °C)
Surface Temperature	≤113 °F (45 °C)
Photometrics	Refer to www.lumascape.com

Any luminaire can become hot - take care with appropriate use and placement

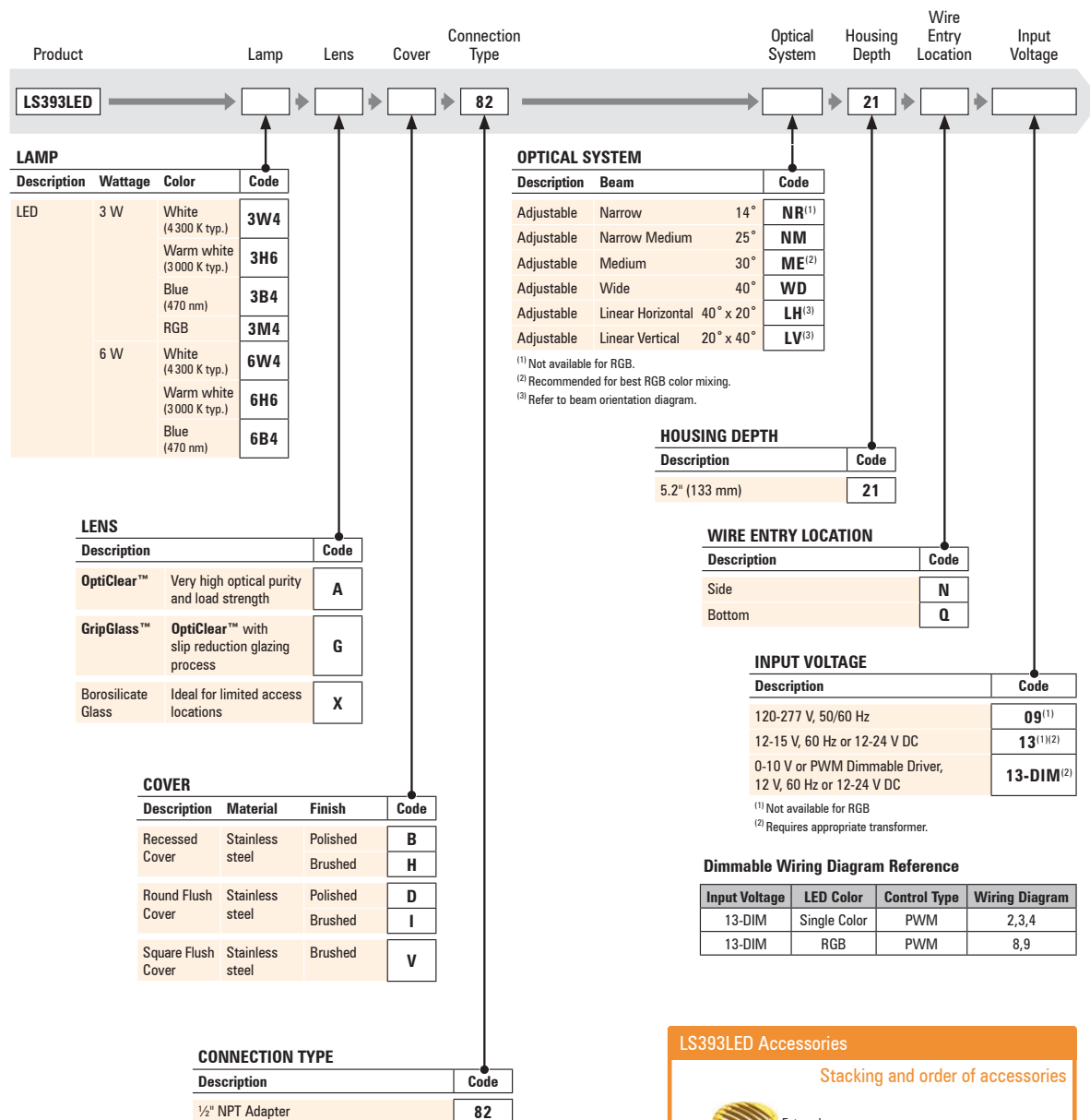


LS393LED
with round flush cover



LS393LED Direct Burial

Ingrade



LS393LED Accessories

Stacking and order of accessories



LS636
Brass grill

External accessory
Use with recessed covers only
Not suitable for use in traffic areas



LS6130/LS6131/
LS6132
Prismatic Diffuser/
Linear Spread Lens/
Custom Media



LED



LS393LED Direct Burial

Ingrade

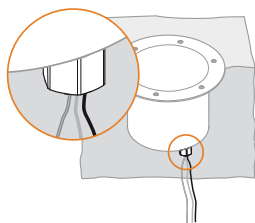
Why Use Direct Burial?

Direct burial installation is ideal for landscaping areas or for special applications where depth is restricted. This type of installation also allows for maximum heat dissipation. The 316 grade Stainless Steel construction of the luminaire performs flawlessly in alkaline and acidic soil types, and is also rated for use in concrete pour applications. **Note: This installation type has no option for a pre-installation blackout.**

Lumascap provides the LS393LED complete with 6.5' of factory installed hookup wire and ½" NPT adapter, supplied complete with **MicroAntiLeach™** seal. This provides the installer with greater flexibility to determine the nature of the branch circuit connection. This connection is also 100% hardwired. All aspects of the luminaire itself remains field serviceable.

Consult factory for application advice prior to using this configuration.

Connection type '82' for 'Direct Burial' housing



½" NPT Adapter

The luminaire is factory-fitted with 6.5' hookup wire. Ensure terminations can be made within this length.

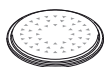
For other length options, consult factory.

Lens Options



OptiClear™ Glass

Glass of very high optical purity and load strength. Suitable for walk-over and drive-over applications.



GripGlass™

OptiClear™ glass with slip reduction glazing process. Suitable for walk-over and drive-over applications.



Borosilicate Glass

Ideal for limited access locations. Not recommended for high traffic pedestrian areas.

Cover Options for Direct Burial

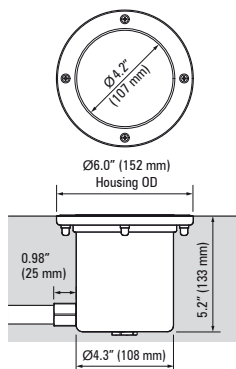
Use recessed cover for installation in soil, grass, pavers and other uneven surfaces where no cover overhang is desired.

Use flush covers for installation in fine finished surfaces such as granite and marble. They can also be used in some suspended applications. The flush cover will conceal gaps between the luminaire and the surrounding surface.



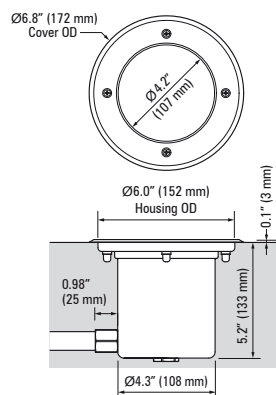
Recessed Cover

- SS316: Polished
- SS316: Brushed



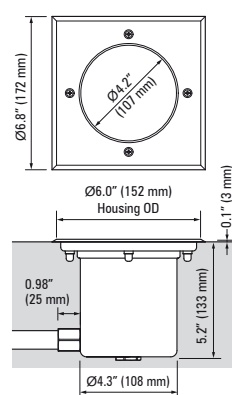
Round Flush Cover

- SS316: Polished
- SS316: Brushed



Square Flush Cover

- SS316: Brushed





R2SQRM

**2" Square LED Recessed Downlight:
New Construction and Remodel Housing**

Specifications/Features

Housing/Mounting

Specification grade 2" downlight for remodel and new construction applications. Two wattage/lumen packages available:

11W/1000Lm: Insulated ceiling (IC), Stopaire housing. Thermally protected for use in applications with direct contact with insulation materials.

15W/1300Lm: Non-insulated ceiling (Non-IC), Stopaire housing. Requires minimum 3" clearance around housing from insulation material. Thermal protection provided in case of improper insulation use.

Housing employs a die-cast aluminum collar and heat sink with the driver compartment and junction box made from 16 gauge steel. Housing has a black painted finish.

LED Drivers are fully accessible from below the ceiling.

Four spring steel mounting clips provide secure support in ceiling thicknesses from 1/2" - 1". Minimum plenum clearance required to install housing in either 1/2" or 1" thick ceiling is 6".

NOTE: Certain regions require the use of a housing mounting frame in conjunction with the R2SQRM housing. The NCSQF1 new construction mounting frame (refer below) should be specified when required (ordered separately)

Electrical

UL8750 and Class 2 Compliant; RoHS Compliant, US only.

Output over voltage, over-current and short circuit protection.

Pre-wired junction box with a convenient screwdriver pry-out. (1) 1/2" Pryout.

A duplex electrical connector is provided to simplify daisy-chain wiring

Lamp

Light engine consists of a high output multi-chip LED array arranged into a single LED package, enabling precise optical control without requiring lensing to diffuse multiple LED sources.

Precision TIR Optics produce 13°, 29°, and 35° beam distributions.

Optics are interchangeable and can be field replaced.

The Wall Wash housing/trim combination utilizes a unique angled TIR optic mounted to the trim to create a smooth, uniform beam distribution. Wall Wash housing is dedicated for use only with Wall Wash trim. There is no interchangeability with other housings or optics.

Excellent fixture-to-fixture color consistency with a 2-step MacAdam Ellipse tolerance.

System designed and rated for 50,000 hours at 70% lumen maintenance

Dimming

All R2SQ downlights are available for non-dimming and dimming applications. For a list of compatible dimmers, refer to [LED Dimming Catalog](#).

Trims

Specification Grade trims are available in different styles and finishes.

Warranty

This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

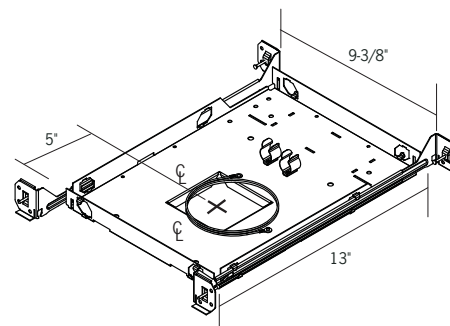
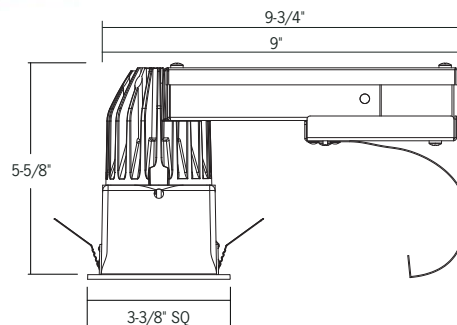
Labels/Usage

cCSAus Certified to UL Standards. Suitable for damp locations.

Conforms to Washington State Energy Code (WSEC) for low air infiltration. Tested in accordance with ASTM E283 (2.0 CFM or less).

The CP housing is Chicago Plenum CCEA listed.

Assembled in the USA.



Mounting Frame Ceiling Cut-out: 3-1/4"

	Series 1	Series 2
Input Wattage (W)	11	15
Input Current (A) 120/277	.09/.04	.13/.06
Input Voltage		
Dimming (Triac, ELV, 0-10V)	120/277V AC, 50-60Hz	
Color Temp	2700K/3000K/3500K/4000K	
CRI Standard/High	83 (80min) / 90+	
Driver		
Power Factor	> 0.90	
THD	< 20%	
Dimming		
Triac, ELV, 0-10V	10-100%	



R2SQRM

2" Square LED Recessed Downlight:
New Construction and Remodel Housing

Catalog No. _____

Type _____

Project _____

Ordering Information

Example Order:

R2SQRMI27KMVDS-CP

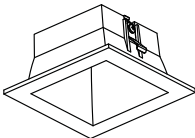
Housing	LED Series	Color Temp	Electrical/Dimming	Beam Dist.	Options
R2SQRM	11W SERIES 1 (IC, STOPAIRE REMODEL) 1 - 11W, 1000lm 15W SERIES 2 (NON-IC, STOPAIRE REMODEL) 2 - 15W, 1300lm	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 27KC - 2700K, 90+ CRI 30KC - 3000K, 90+ CRI 35KC - 3500K, 90+ CRI 40KC - 4000K, 90+ CRI	MVD² - 120/277V TRIAC, ELV, 0-10V Dimming	S - 13° M - 29° F - 35° WW - Wall Wash	CP - Chicago Plenum

1. Series-2 is not available for use in insulated ceilings (IC).
2. 120V TRIAC and ELV dimming only.

Accessories

- 2INOPTIC-S-RA2 - 2" TIR Optic, 13° Beam
- 2INOPTIC-M - 2" TIR Optic, 29° Beam
- 2INOPTIC-F - 2" TIR Optic, 35° Beam
- NCSQF1 - New Construction Mounting Frame (Standard Hanger Bars Supplied with Frame)
- RL-KIT - Commercial Mounting Brackets, For Use with NCSQF1
- HB-24 - 27" Flat Hanger Bars for RL-KIT, For Use with NCSQF1
- HBC-24 - 25" C-Channel Hanger Bars for RL-KIT in Grid Ceiling Construction
- HB-30 - T-Bar Hanger Set, For Use with NCSQF1

Trims

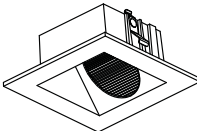


Reflector Trim

C2322SQ-(BLK, SL, WHT)

Reflector is available in painted satin silver, painted matte white, and painted matte black finishes. Trims are wet location certified when used with an LF50 lens. Trim accepts one (1) FA-55 2-1/8" Square Black Honeycomb Louver or (1) LF50 2-1/8" Square Tempered Glass Lens.

Aperture: 2-5/8" SQ; Trim Frame: 3-5/8" SQ



Wall Wash Trim

C2323SQ- (BLK, SL, WHT)

An angled TIR optic enables precise light control. Reflector is available in painted satin silver, painted matte white, and painted matte black finishes. Cannot be used with lenses or louvers.

Aperture: 2-3/8" SQ; Trim Frame: 3-3/4" SQ

Accessories

- 2-1/8" Square Lenses/Louver:
- FA-55 - Honeycomb Louver
- LF50-A - Amber
- LF50-B - Blue
- LF50-G - Green
- LF50-LB - Light Blue
- LF50-R - Red
- LF50-RO - Rose
- LF50-Y - Yellow
- LF50-73 - Prismatic Spread
- LF50-CL - Clear
- LF50-LS - Linear Spread
- LF50-SL - Soft Light Sandblasted
- LF50-SOL - Solite
- LF50-UV - Optivex UV Filter



R2SQRM

**2" Square LED Recessed Downlight:
New Construction and Remodel Housing**

Specifications/Features

Housing/Mounting

Specification grade 2" downlight for remodel and new construction applications. Two wattage/lumen packages available:

11W/1000Lm: Insulated ceiling (IC), Stopaire housing. Thermally protected for use in applications with direct contact with insulation materials.

15W/1300Lm: Non-insulated ceiling (Non-IC), Stopaire housing. Requires minimum 3" clearance around housing from insulation material. Thermal protection provided in case of improper insulation use.

Housing employs a die-cast aluminum collar and heat sink with the driver compartment and junction box made from 16 gauge steel. Housing has a black painted finish.

LED Drivers are fully accessible from below the ceiling.

Four spring steel mounting clips provide secure support in ceiling thicknesses from 1/2" - 1". Minimum plenum clearance required to install housing in either 1/2" or 1" thick ceiling is 6".

NOTE: Certain regions require the use of a housing mounting frame in conjunction with the R2SQRM housing. The NCSQF1 new construction mounting frame (refer below) should be specified when required (ordered separately)

Electrical

UL8750 and Class 2 Compliant; RoHS Compliant, US only.

Output over voltage, over-current and short circuit protection.

Pre-wired junction box with a convenient screwdriver pry-out. (1) 1/2" Pryout.

A duplex electrical connector is provided to simplify daisy-chain wiring

Lamp

Light engine consists of a high output multi-chip LED array arranged into a single LED package, enabling precise optical control without requiring lensing to diffuse multiple LED sources.

Precision TIR Optics produce 13°, 29°, and 35° beam distributions.

Optics are interchangeable and can be field replaced.

The Wall Wash housing/trim combination utilizes a unique angled TIR optic mounted to the trim to create a smooth, uniform beam distribution. Wall Wash housing is dedicated for use only with Wall Wash trim. There is no interchangeability with other housings or optics.

Excellent fixture-to-fixture color consistency with a 2-step MacAdam Ellipse tolerance.

System designed and rated for 50,000 hours at 70% lumen maintenance

Dimming

All R2SQ downlights are available for non-dimming and dimming applications. For a list of compatible dimmers, refer to [LED Dimming Catalog](#).

Trims

Specification Grade trims are available in different styles and finishes.

Warranty

This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

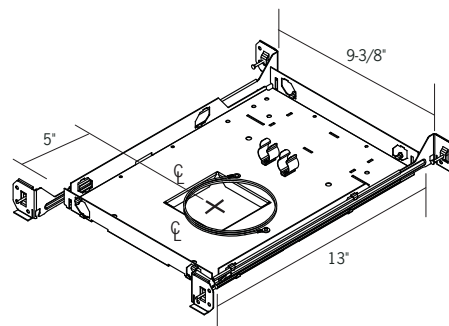
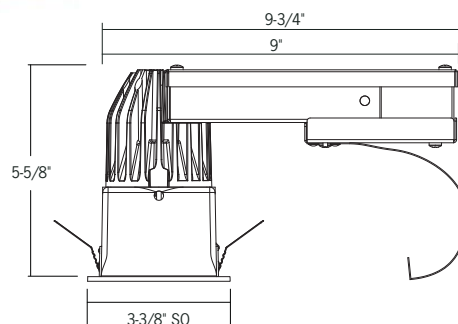
Labels/Usage

cCSAus Certified to UL Standards. Suitable for damp locations.

Conforms to Washington State Energy Code (WSEC) for low air infiltration. Tested in accordance with ASTM E283 (2.0 CFM or less).

The CP housing is Chicago Plenum CCEA listed.

Assembled in the USA.



Mounting Frame Ceiling Cut-out: 3-1/4"

	Series 1	Series 2
Input Wattage (W)	11	15
Input Current (A) 120/277	.09/.04	.13/.06
Input Voltage		
Dimming (Triac, ELV, 0-10V)	120/277V AC, 50-60Hz	
Color Temp	2700K/3000K/3500K/4000K	
CRI Standard/High	83 (80min) / 90+	
Driver		
Power Factor	> 0.90	
THD	< 20%	
Dimming		
Triac, ELV, 0-10V	10-100%	



Catalog No. _____

Type _____

Project _____

R2SQRM

**2" Square LED Recessed Downlight:
New Construction and Remodel Housing**

Ordering Information

Example Order: R2SQRM127KMVDS-CP

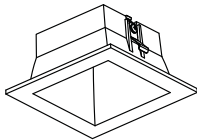
Housing	LED Series	Color Temp	Electrical/Dimming	Beam Dist.	Options
R2SQRM	11W SERIES 1 (IC, STOPAIRE REMODEL) 1 - 11W, 1000lm 15W SERIES 2 (NON-IC, STOPAIRE REMODEL) 2 - 15W, 1300lm	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 27KC - 2700K, 90+ CRI 30KC - 3000K, 90+ CRI 35KC - 3500K, 90+ CRI 40KC - 4000K, 90+ CRI	MVD² - 120/277V TRIAC, ELV, 0-10V Dimming	S - 13° M - 29° F - 35° WW - Wall Wash	CP - Chicago Plenum

1. Series-2 is not available for use in insulated ceilings (IC).
2. 120V TRIAC and ELV dimming only.

Accessories

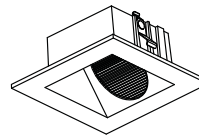
- 2INOPTIC-S-RA2** - 2" TIR Optic, 13° Beam
- 2INOPTIC-M** - 2" TIR Optic, 29° Beam
- 2INOPTIC-F** - 2" TIR Optic, 35° Beam
- NCSQF1** - New Construction Mounting Frame (Standard Hanger Bars Supplied with Frame)
- RL-KIT** - Commercial Mounting Brackets, For Use with NCSQF1
- HB-24** - 27" Flat Hanger Bars for RL-KIT, For Use with NCSQF1
- HBC-24** - 25" C-Channel Hanger Bars for RL-KIT in Grid Ceiling Construction
- HB-30** - T-Bar Hanger Set, For Use with NCSQF1

Trims



Reflector Trim

C2322SQ-(BLK, SL, WHT)
Reflector is available in painted satin silver, painted matte white, and painted matte black finishes. Trims are wet location certified when used with an LF50 lens. Trim accepts one (1) FA-55 2-1/8" Square Black Honeycomb Louver or (1) LF50 2-1/8" Square Tempered Glass Lens.
Aperture: 2-5/8" SQ; Trim Frame: 3-5/8" SQ



Wall Wash Trim

C2323SQ-(BLK, SL, WHT)
An angled TIR optic enables precise light control. Reflector is available in painted satin silver, painted matte white, and painted matte black finishes. Cannot be used with lenses or louvers.
Aperture: 2-3/8" SQ; Trim Frame: 3-3/4" SQ

Accessories

- 2-1/8" Square Lenses/Louver:**
- FA-55** - Honeycomb Louver
 - LF50-A** - Amber
 - LF50-B** - Blue
 - LF50-G** - Green
 - LF50-LB** - Light Blue
 - LF50-R** - Red
 - LF50-RO** - Rose
 - LF50-Y** - Yellow
 - LF50-73** - Prismatic Spread
 - LF50-CL** - Clear
 - LF50-LS** - Linear Spread
 - LF50-SL** - Soft Light Sandblasted
 - LF50-SOL** - Solite
 - LF50-UV** - Optivex UV Filter



XOOMINAIRE™ 4262R – 65°



XOOMINAIRE™ 4242

XOOMINAIRE™ 4262

XOOMINAIRE™ 4262R

XOOMINAIRE™ 4292

XOOMINAIRE™ 7066

XOOMINARIS™ 2552

XOOLIM™ 2530

XOOMINAIRE™ 9999

Einbau Recessed



Reflektor-Optik

► 65° – Tief, breit strahlend, UGR < 16

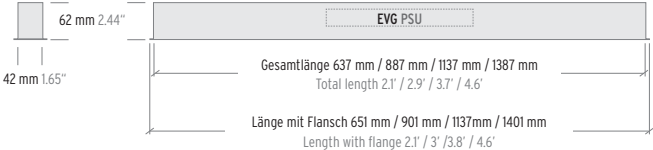
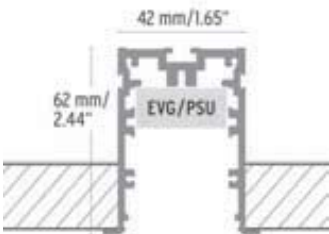
- Breite, tiefe Lichtverteilung (Batwing) für exakte, großzügige Flächenbeleuchtung
- Angenehme Ausleuchtung bei mittleren Leuchtdichten und gerichtetem Licht
- UGR < 16 durch sehr präzise gefertigte Aluminium-Reflektor-Optik 65°

Reflector optic

► 65° – Deep, wide, UGR < 16

- Wide and deep light distribution (Batwing) for precise and generous illumination of areas
- Pleasant illumination at moderate luminance and directional light
- UGR < 16 through precision-crafted aluminum-reflector-optic 65°

Integriertes EVG Integrated PSU



Bestellmatrix

Konfigurieren Sie sich Ihre Standardleuchte und komplettieren Sie die Bestellnummer um die noch offenen Stellen. —>

Order matrix

Configure your standard luminaire by completing the order code by the digits not yet defined. —>

Schutzart	Montageart		Profilfarbe		Profil		Optik		W/m²	lm/m³	Helligkeit		Farbtemp. (K)		Steuerung	Spannung (V)		Gesamtlänge (mm)									
Protection	Mounting		Profile color		Profile		Optic		W/m²	lm/m³	Light int.		Color temp. (K)		Control	Voltage (V)		Total length (mm)									
Indoor	I	Recessed	R	Silver	S	4	2	6	2	6	5	15	1940	H	E	2.700	2	7	on/off	A	230	E	637	0	6	3	7
				Black	B					25	2940	H	O	3.000	3	0	1 - 10 V	B	100-277	W	887	0	8	8	7		
				White¹	W					40	4040	S	O	3.500	3	5	DALI	C	120	U	1137	1	1	3	7		
														4.000	4	0	Switch DIM	D		1387	1	3	8	7			
	I		R	→		4	2	6	2	6	5				→				→			→					

1 Auf Nachfrage

2 Die Wattage bezieht sich auf die Gesamtlänge der Leuchtfläche unter Berücksichtigung einer Verlustleistung des EVG von 10%.

3 Die Leistungsangaben beziehen sich auf die Lichtquelle genormt auf ein Meter und ohne Verlustleistung des Vorschaltgeräts. Je nach Länge und Ausführung erhöht sich die Anschlussleistung um die Verlustleistung, die zwischen 7% bis 15% liegen kann. Lumenangaben gemäß LED Linear™ Leuchtmittel im thermisch eingeschwungenen Betriebszustand. Den photometrisch ermittelten Leuchtenlichtstrom finden Sie per Download in den lichttechnischen Daten (ies/LDT) auf unserer Website www.led-linear.de.

Weitere Informationen zum Inhalt Ihres Standardleuchtenpakets, zum Zubehör, zur Lebensdauer sowie zu den ABG's und Garantiebedingungen finden Sie ab Seite 256.

1 On request

2 The power consumption refers to the length of the luminous surface under consideration of a 10% loss of the PSU.

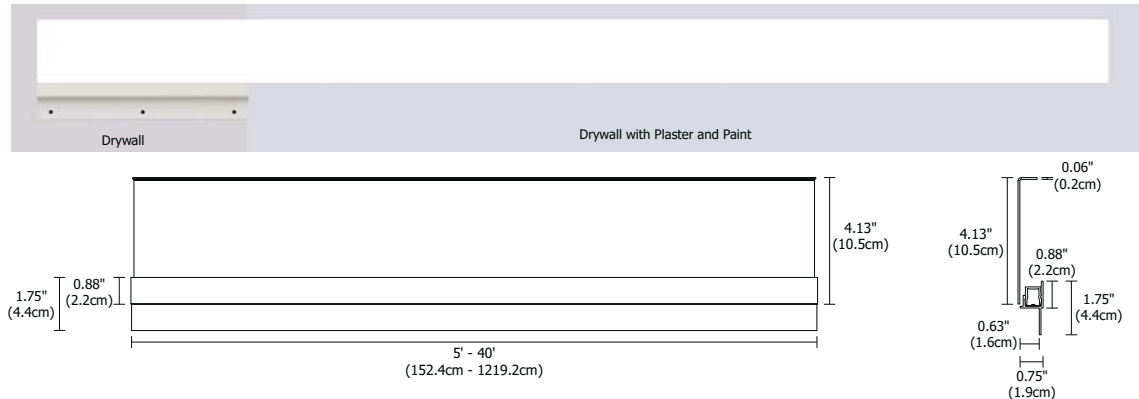
3 The performance data refer to the light source standardised to one meter and no power loss of the ballast. Depending on the length and design, the connected wattage increases by the ballast loss, which can range from 7% to 15%. Lumen values according to LED Linear™ Lamp in a thermally steady state operation. The photometrically determined luminous flux can be found by downloading the photometric data (ies / LDT) on our website www.led-linear.com.

Further information on the content of your standard lighting package, accessory, lifetime as well as the Terms & Conditions and Warranty can be found from page 256 on.

Verge Ceiling, 24VDC Plaster-In LED system

VG- - - -

ASSEMBLED IN THE U.S.A.



Description: Verge Ceiling, a Slim, plaster-in aluminum channel with 4 inch paintable aluminum backer plate highlights ceiling perimeters while emitting ambient illumination. The 24VDC linear LED system mounts directly to studs without joist modification and plasters into 5/8 inch or thicker drywall. Verge Ceiling is sold in 5 foot increments up to 40 feet and may be field-cut to any length. Several color temperature options are available, including 24K – 57K (ELV/010), Warm Dim (ELV), Tunable White (ELV/010/DMX), RGB and RGBW (DMX). High CRI commercial-grade white or dynamic color-changing LED Soft Strip projects a clean line of light. Coordinate installation with electrician and drywall contractors. Includes a 5-year pro-rated warranty.

Design Note: Verge Ceiling can be installed on a single surface such as the perimeter of the ceiling to highlight coves or architectural elements. Ambient and harmonious, the plaster-in LED system blends into 5/8 inch thick drywall to enhance the contemporary aesthetic of interior spaces. Verge offers unsurpassed flexibility that transforms interiors into thoughtful, unique works of art.

Applications: Indoor damp or dry locations only. Ceiling mount for perimeters and for outlining architectural elements in hospitality, retail, and residential

Lamp: The average LED Life is 50,000 hours

Watts per Foot	Lumens per Watt	per Foot	85+CRI 24K, 35K, 40K, 57K	90+CRI 24K	92+CRI 27D, 30D	95+CRI 27K, 30K	RGB	RGBW
2WDC (2.5WDC)	57	186	•			•		
3WDC	N/A	N/A					•	
5WDC	N/A	N/A	•	•	•	•		
6WDC	N/A	N/A						•

Lumen values are based on the 3000K LED test.

Remote Power Supplies*, Dimmers & Controls
(Sold Separately):

- Electronic Low Voltage Dimming (ELV)
- 0-10 Volt Dimming (0-10V)
- Dynamic Color Changing (DMX)

*In-Wall Mounting Kits available for select power supplies

Included Components: Junction Box, Adjustable Mounting Bars, Backer Plate, Verge Ceilings Channel(s), Drywall Screws, LED Soft Strip, and Lens(es)

ORDERING CODE

System	Watts per Foot	Length in Feet	Color Temperature
VGCE	2WDC	10FT	27K
VGCE Verge Ceiling	2WDC 2.5 Watts 3WDC 3 Watts (35 foot max) 5WDC 5 Watts (20 foot max) 6WDC 6 Watts (15 foot max)	5FT 5 Feet 25FT 25 Feet 10FT 10 Feet 30FT 30 Feet 15FT 15 Feet 35FT 35 Feet 20FT 20 Feet 40FT 40 Feet	24K 2400K Amber White 27K 2700K Very Warm White 27D 2700K Warm Dim (5WDC only) 30K 3000K Warm White 30D 3000K Warm Dim (5WDC only) 35K 3500K Neutral White 40K 4000K Cool White 57K 5700K Daylight White 2K4K 2000K-4000K Tunable White (5WDC only) RGB Red, Green, and Blue (3WDC only) RGBW Red, Green, Blue, and 2000K White (6WDC only)

For custom design and layout assistance, send drawings to design@PureEdgeLighting.com

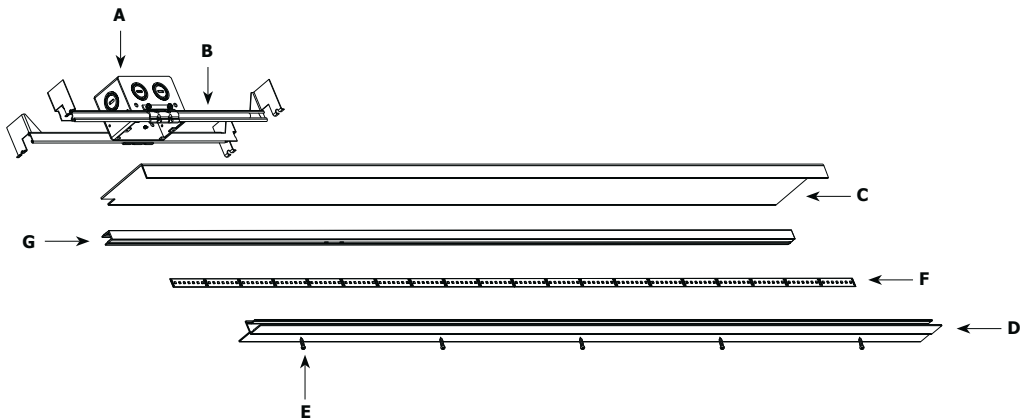
COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

Product specification subject to change without notification. REV.03.23.17

Verge Ceiling, 24VDC Plaster-In LED system

VG- - - -
ASSEMBLED IN THE U.S.A.


INCLUDED COMPONENTS



A. Junction Box: Mounts behind drywall with Adjustable Mounting Bars. Low voltage 24VDC wires from Remote Power Supply connect to LED wires inside box. Junction Box opening is covered by the Backer Plate, and required at the beginning of each run.

B. Adjustable Mounting Bars: Provide flexibility for mounting in a variety of spaces.

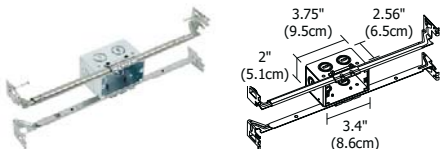
C. Backer Plate: 4-inch paintable aluminum plate that conceals Junction Box and reflects light.

D. Verge Ceiling Channel: 5/8 inch deep extrusion houses a single row of commercial-grade white or dynamic color-changing LED Soft Strip.

E. Drywall Screws: Secures channel to drywall and stud.

F. LED Soft Strip: Commercial grade white or dynamic color-changing LED Soft Strip. See lamp data on for additional details.

G. Lens: 0.6 inch wide diffuser lens projects a clean line of light without LED dots.



Junction Box: One Junction Box is included with Verge Ceiling. Order additional Junction Box separately to rough-in electrical wiring before drywall installation. Quick shipment available.

System	Size	Component
VG	1RE	JBOX
VG Verge	1RE 1" Rectangle	JBOX Junction Box

COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

Product specification subject to change without notification. REV.03.23.17

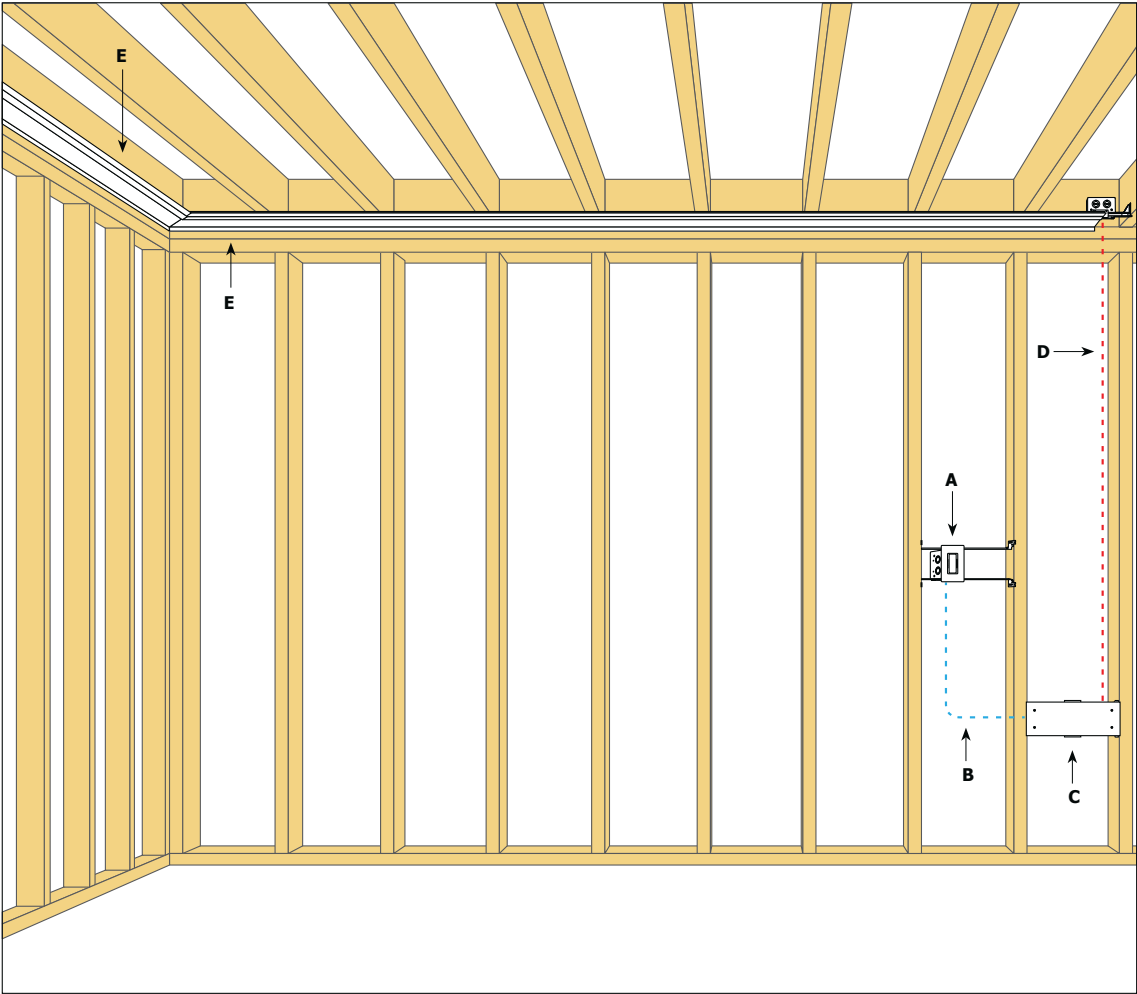
A Division of PureEdge Lighting 1718 W. Fullerton Chicago, IL 60614 • Ph: 773.770.1196 • Fax: 773.883.6128 • www.purelighting.com



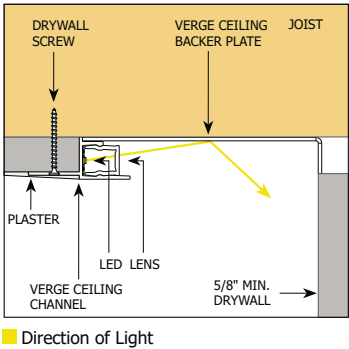
Verge Ceiling, 24VDC Plaster-In LED system

VG- - - -
ASSEMBLED IN THE U.S.A.


INSTALLATION



- A. Dimmer or Switch
- B. 20VAC wiring
- C. 120V/24VDC remote power supply for In-Wall Mounting Kit
- D. 24VDC, Class 2 wiring
- E. Verge Wall Channel
- F. LED Soft Strip



Direction of Light

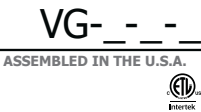
COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

Product specification subject to change without notification. REV.03.23.17

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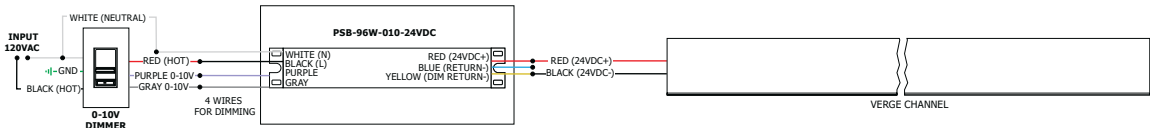
Verge Ceiling, 24VDC Plaster-In LED system



Application: 0-10V dimming for Verge Ceiling

Power Supply: PSB-96W-010-24VDC (24VDC 96W output) | PSB-2X96W-010-24VDC (24VDC 2X96W output).

Dimming: Radio Ra2 (with GRX-TVI), Grafik Eye Qs (with GRX-TVI), Diva (with PP20); Nova T; Philips: Sunrise SR1200ZTUNV; Leviton: IP710-LF.



2.5 WATTS PER FOOT - 24K, 27K, 30K, 35K, 40K AND 57K WHITE LEDS

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	3	11	27	21	51	31	75
2	5	12	29	22	54	32	78
3	8	13	32	23	56	33	80
4	10	14	34	24	58	34	82
5	13	15	37	25	61	35	85
6	15	16	39	26	63	36	87
7	17	17	41	27	66	37	90
8	20	18	44	28	68	38	92
9	22	19	46	29	70	39	94
10	25	20	48	30	73	40	96

5 WATTS PER FOOT - 24K, 27K, 27D, 30K, 30D, 35K, 40K AND 57K WHITE LEDS

LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS	LENGTH IN FEET	WATTS
1	5	6	29	11	53	16	77
2	10	7	34	12	58	17	82
3	14	8	38	13	63	18	87
4	19	9	43	14	67	19	91
5	24	10	48	15	72	20	96

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COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

Product specification subject to change without notification. REV.03.23.17



Verge Ceiling, 24VDC Plaster-In LED system

VG- _ _ _ _

ASSEMBLED IN THE U.S.A.



5 WATTS PER FOOT - 2K4K TUNABLE WHITE LEDS

LENGTH IN FEET	2K WATTS	4K WATTS
1	3	3
2	5	5
3	8	8
4	10	10
5	12	12
6	15	15
7	17	17

LENGTH IN FEET	2K WATTS	4K WATTS
8	20	20
9	22	22
10	24	24
11	27	27
12	29	29
13	32	32
14	34	34

LENGTH IN FEET	2K WATTS	4K WATTS
15	36	36
16	39	39
17	41	41
18	44	44
19	46	46
20	48	48

3 WATTS PER FOOT - RGB LEDS

LENGTH IN FEET	WATTS
1	3
2	6
3	8
4	11
5	13
6	16
7	19
8	21
9	24

LENGTH IN FEET	WATTS
10	26
11	29
12	32
13	34
14	37
15	39
16	42
17	45
18	47

LENGTH IN FEET	WATTS
19	50
20	52
21	55
22	58
23	60
24	63
25	65
26	68
27	71

LENGTH IN FEET	WATTS
28	73
29	76
30	78
31	81
32	84
33	86
34	89
35	91

6 WATTS PER FOOT - RGBW LEDS

LENGTH IN FEET	WATTS
1	6
2	12
3	18
4	24

LENGTH IN FEET	WATTS
5	30
6	36
7	42
8	48

LENGTH IN FEET	WATTS
9	54
10	60
11	66
12	72

LENGTH IN FEET	WATTS
13	78
14	84
15	90
16	96

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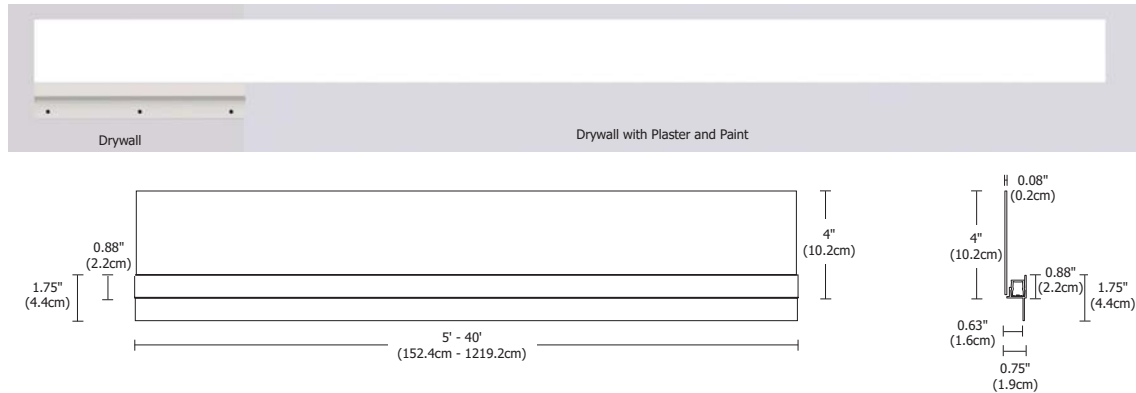
COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

Product specification subject to change without notification. REV.03.23.17

Verge Wall, 24VDC Plaster-In LED system



VG- - - -
ASSEMBLED IN THE U.S.A.



Description: Verge, a Slim, plaster-in aluminum channel with 4 inch paintable aluminum backer plate highlights the transition where two drywall surfaces verge together, while emitting ambient illumination. The 24VDC linear LED system mounts directly to studs without joist modification and plasters into 5/8 inch or thicker drywall. Verge is sold in 5 foot increments up to 40 feet and may be field-cut to any length. High CRI commercial-grade white or dynamic color-changing LED Soft Strip projects a clean line of light. Coordinate installation with electrician and drywall contractors. Includes a 5-year pro-rated warranty.

Design Note: Verge wall may be installed on a single surface for toe-kick and cove lighting applications. Ambient and harmonious, the plaster-in LED system blends into 5/8 inch thick drywall to enhance the contemporary aesthetic of interior spaces. Verge offers unsurpassed flexibility that transforms interiors into thoughtful, unique works of art.

Applications: Indoor damp or dry locations only. A Wall mount for use as cove lighting and floating wall effects for hospitality, retail, and residential.

Lamp: The average LED Life is 50,000 hours

Watts per Foot	Lumens per Foot	85+CRI 24K, 35K, 40K, 57K	90+CRI 2K4K	92+CRI 27D, 30D	95+CRI 27K, 30K	RGB	RGBW
2WDC (2.5WDC)	57 186	•			•		
3WDC	N/A N/A					•	
5WDC	N/A N/A	•	•	•	•		
6WDC	N/A N/A						•

Lumen values are based on the 3000K LED test.

Remote Power Supplies*, Dimmers & Controls

(Sold Separately):

- Electronic Low Voltage Dimming (ELV)
- 0-10 Volt Dimming (0-10V)
- Dynamic Color Changing (DMX)

*In-Wall Mounting Kits available for select power supplies

Included Components: Junction Box, Adjustable Mounting Bars, Backer Plate, Verge Wall Channel(s), Drywall Screws, LED Soft Strip, and Lens(es)

ORDERING CODE

System	Watts per Foot	Length in Feet	Color Temperature
VG	2WDC	10FT	27K
VG Verge Wall	2WDC 2.5 Watts 3WDC 3 Watts (35 foot max) 5WDC 5 Watts (20 foot max) 6WDC 6 Watts (15 foot max)	5FT 5 Feet 10FT 10 Feet 15FT 15 Feet 20FT 20 Feet 25FT 25 Feet 30FT 30 Feet 35FT 35 Feet 40FT 40 Feet	24K 2400K Amber White 27K 2700K Very Warm White 27D 2700K Warm Dim (5WDC only) 30K 3000K Warm White 30D 3000K Warm Dim (5WDC only) 35K 3500K Neutral White 40K 4000K Cool White 57K 5700K Daylight White 2K4K 2000K-4000K Tunable White (5WDC only) RGB Red, Green, and Blue (3WDC only) RGBW Red, Green, Blue, and 2000K White (6WDC only)

For custom design and layout assistance, send drawings to design@PureEdgeLighting.com

COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

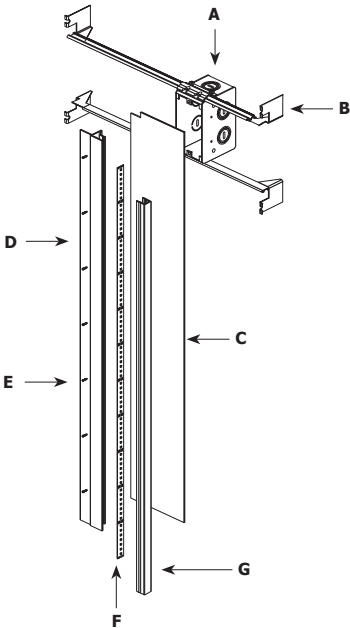
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Verge Wall, 24VDC Plaster-In LED system

VG- - - -

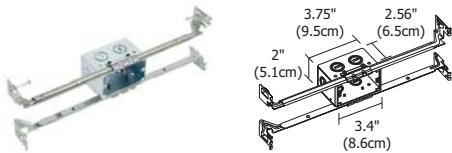


INCLUDED COMPONENTS



- A. Junction Box:** Mounts behind drywall with Adjustable Mounting Bars. Low voltage 24VDC wires from Remote Power Supply connect to LED wires inside box. Junction Box opening is covered by the Backer Plate, and required at the beginning of each run.
- B. Adjustable Mounting Bars:** Provide flexibility for mounting in a variety of spaces. Verge Corner includes two sets of mounting hardware.
- C. Backer Plate:** 4-inch paintable aluminum plate that conceals Junction Box and reflects light. Verge Corner includes two backer plates.

- D. Verge Channel:** 5/8 inch deep extrusions each house a single row of commercial-grade white or dynamic color-changing LED Soft Strip.
- E. Drywall Screws:** Secure channel to drywall and stud.
- F. LED Soft Strip:** Commercial grade white or dynamic color-changing LED Soft Strip. See lamp data on for additional details.
- G. Lens:** .6 inch wide diffuser lens projects a clean line of light without LED dots. Verge Corner includes two lenses.



Rough-In Component
Junction Box: One Junction Box is included with Verge Wall and two Junction Boxes are included with Verge Corner. Order additional Junction Box(es) separately to rough-in electrical wiring before drywall installation. Quick shipment available.

System	Size	Component
VG	1RE	JBOX
VG Verge Wall	1RE 1" Rectangle	JBOX Junction Box

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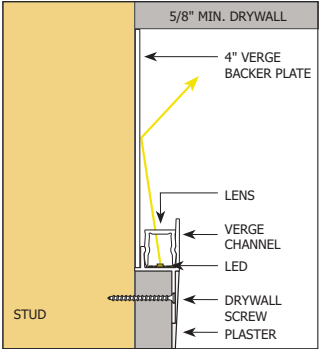
Verge Wall, 24VDC Plaster-In LED system

VG-_-_-

 **INSTALLATION**



- A. Dimmer or Switch
- B. 120VAC wiring
- C. 120V/24VDC remote power supply for In-Wall Mounting Kit
- D. 24VDC, Class 2 wiring
- E. Verge Wall Channel
- F. LED Soft Strip



■ Direction of Light

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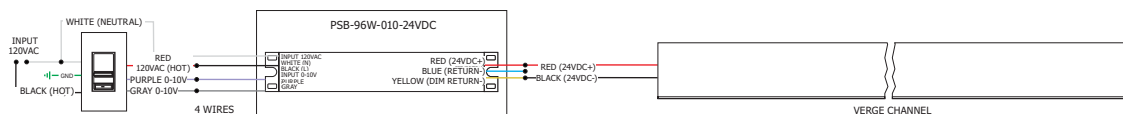


Verge Wall, 24VDC Plaster-In LED system

VG-_-_-



- Application:** 0-10V dimming for Verge
- Power Supply:** PSB-96W-010-24VDC (24VDC 96W output) | PSB-2X96W-010-24VDC (24VDC 2X96W output).
- Dimming:** Radio Ra2 (with GRX-TVI), Grafik Eye Qs (with GRX-TVI), Diva (with PP20); Nova T; Philips: Sunrise SR1200ZTUNV; Leviton: IP710-LF.



2.5 WATTS PER FOOT - 24K, 27K, 30K, 35K, 40K AND 57K WHITE LEDS

LENGTH IN FEET	WATTS
1	3
2	5
3	8
4	10
5	13
6	15
7	17
8	20
9	22
10	25

LENGTH IN FEET	WATTS
11	27
12	29
13	32
14	34
15	37
16	39
17	41
18	44
19	46
20	48

LENGTH IN FEET	WATTS
21	51
22	54
23	56
24	58
25	61
26	63
27	66
28	68
29	70
30	73

LENGTH IN FEET	WATTS
31	75
32	78
33	80
34	82
35	85
36	87
37	90
38	92
39	94
40	96

5 WATTS PER FOOT - 24K, 27K, 27D, 30K, 30D, 35K, 40K AND 57K WHITE LEDS

LENGTH IN FEET	WATTS
1	5
2	10
3	14
4	19
5	24

LENGTH IN FEET	WATTS
6	29
7	34
8	38
9	43
10	48

LENGTH IN FEET	WATTS
11	53
12	58
13	63
14	67
15	72

LENGTH IN FEET	WATTS
16	77
17	82
18	87
19	91
20	96

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Verge Wall, 24VDC Plaster-In LED system

VG-_-_-



5 WATTS PER FOOT - 2K4K TUNABLE WHITE LEDS

LENGTH IN FEET	2K WATTS	4K WATTS
1	3	3
2	5	5
3	8	8
4	10	10
5	12	12
6	15	15
7	17	17

LENGTH IN FEET	2K WATTS	4K WATTS
8	20	20
9	22	22
10	24	24
11	27	27
12	29	29
13	32	32
14	34	34

LENGTH IN FEET	2K WATTS	4K WATTS
15	36	36
16	39	39
17	41	41
18	44	44
19	46	46
20	48	48

3 WATTS PER FOOT - RGB LEDS

LENGTH IN FEET	WATTS
1	3
2	6
3	8
4	11
5	13
6	16
7	19
8	21
9	24

LENGTH IN FEET	WATTS
10	26
11	29
12	32
13	34
14	37
15	39
16	42
17	45
18	47

LENGTH IN FEET	WATTS
19	50
20	52
21	55
22	58
23	60
24	63
25	65
26	68
27	71

LENGTH IN FEET	WATTS
28	73
29	76
30	78
31	81
32	84
33	86
34	89
35	91

6 WATTS PER FOOT - RGBW LEDS

LENGTH IN FEET	WATTS
1	6
2	12
3	18
4	24

LENGTH IN FEET	WATTS
5	30
6	36
7	42
8	48

LENGTH IN FEET	WATTS
9	54
10	60
11	66
12	72

LENGTH IN FEET	WATTS
13	78
14	84
15	90
16	96

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COMPANY		FIXTURE TYPE		DATE	
PROJECT		APPROVED BY			

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architectural

Moonline

Small indirect linear cove for ambient glow

Description

Moonline is a recessed linear fixture for indoor use, which can be installed in the ceiling, wall or at the perimeter of both. Designed to give a crisp, modern look to any space, it integrates perfectly into the structural room. The fixture can transition from wall to ceiling seamlessly and can be installed in both center or perimeter installations. The luminaires install separately from the housing, to avoid messy cleanup after construction and they are powered through a magnetic system. The lighting modules have an opal polycarbonate diffuser that guarantees uniform lighting through the linear cove. Once Installed, this unique system will be the focal point of any room.

Lamps

- LED
6W/ft, 444 lm/ft, 3000k, CRI 80

Construction

- Fixture is made of extruded aluminum profile and integral electrical track.

Notes

- Fixture is designed for use in 1/2" drywall applications
- Optional accessory available to ease removal of Light Strip modules
- Moonline system is not dimmable
- Listings: UL Listed, IP20 dry rated only, Class 2

Electrical

- Fixture is constant 24 volt with remote power supply
- Fixture is 6 watts a linear foot
- Available 96 watt max driver
- Housings can be connected end to end, up to maximum allowed wattage of power supply
- Distance should not exceed driver's limits for voltage drop

Profile

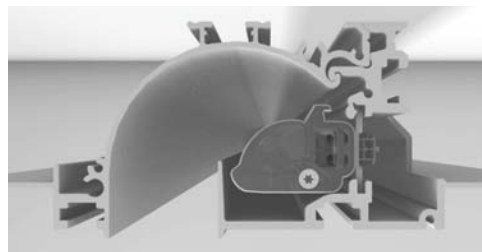
- Available for installations in both center or perimeter of the wall or ceiling

Photometrics

For current IES files please visit usa.flos.com

Warranty

2 years from date of sale



Luminaires

Light Strip Module



- Linear LED can be rapidly exchanged and repositioned
- Light elements are quick to position and connect automatically through the magic of magnets

F L O S . U S A
110 York Street
Brooklyn, NY 11201
(718).875.3472

For more information contact your representative or go to FlosUSA.com.
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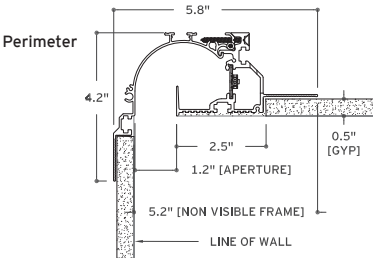
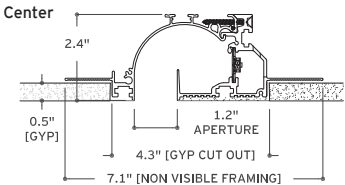
Moonline

Small indirect linear cove for ambient glow

Fixture Type

Job Name

Profiles



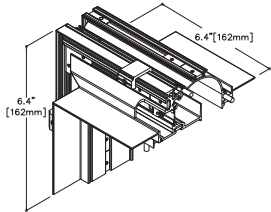
Length	Part Number Center Profile	Part Number Perimeter Profile	Finish	Required Accessories
39.4" (1m)	06.1100	06.1115	00= Primer 40= White	06.1140.00 Moonline Connection cable Accessory 08.8914.00 Moonline End cap - Primer 08.8914.40 Moonline End cap - White
78.7" (2m)	06.1105	06.1120	00= Primer 40= White	

Corners

Center

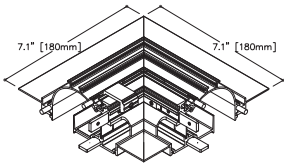
Center Vertical Corner

06.1133



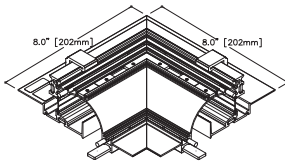
Center Inside Corner

06.1134



Center Outside Corner

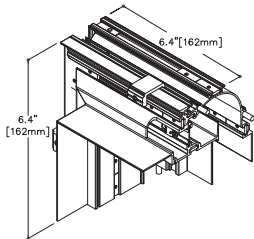
06.1135



Perimeter

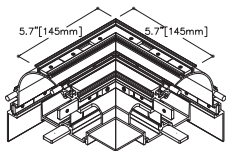
Perimeter Vertical Corner

06.1130



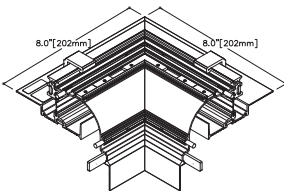
Perimeter Inside Corner

06.1131



Perimeter Outside Corner

06.1132



Accessories

Aluminum "L" piece for easier access to magnetic LED linear strip.

"L" Piece

08.8915.00



One connection cable per driver is required.

Connection Cable (3.3')

06.1140.00



End Cap

08.8914





architectural

Moonline

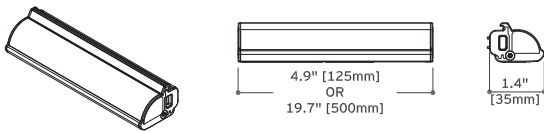
Small indirect linear cove for ambient glow

Fixture Type

Job Name

Light Strip Module

LED linear light module with diffused lens and magnetic connection.



Length	CRI	CCT	Initial Lumen	Watts	Part Number
4.9" (125mm)	80	3000	187	2.5	06.1141.00A90
19.7" (500mm)			728	10	06.1142.00A90

Drivers

Note: Moonline system is not dimmable regardless of driver.

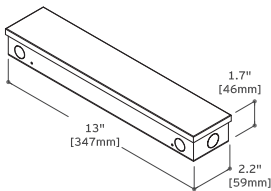
LED Driver- 96W Optronic 24V

LED96W24V



Splice Box

SP-24V-96W





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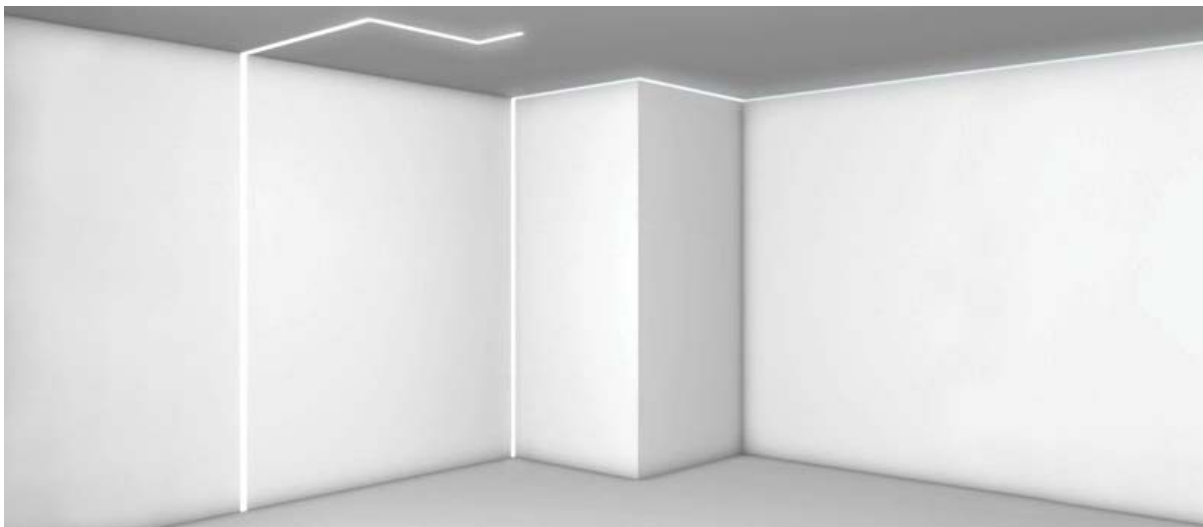
Moonline

Small indirect linear cove for ambient glow

Fixture Type

Job Name

Visit FLOS Worldwide YouTube channel for installation videos



How to Specify

A. Center Profile

1. Select the profiles
2. Select the corners
3. Add end cap
4. Add connection cable
5. Select kit for installation on ACT or wood ceiling
6. Add driver
7. Select light strips
8. Optional installation accessory

B. Perimeter Profile

1. Select the profiles
2. Select the corners
3. Add end cap
4. Add connection cable
5. Select kit for installation on ACT or wood ceiling
6. Add driver
7. Select light strips
8. Optional installation accessory

Note: Specify quantities in boxes

A. Center Profile									Driver		
	Profile	Finish	Corner		Finish	End Cap	Finish	Connection cable	Optional "L" piece		
39.4" (1m)	☐ 06.1100	00= Primer 40= White	Vertical Corner	☐ 06.1133	00= Primer 40= White	☐ 08.8914	00= Primer 40= White	☐ 06.1140.00	☐ 08.8915.00	☐ LED96W24V	LED Driver 96W
78.7" (2m)	☐ 06.1105		Inside Corner	☐ 06.1134							
			Outside Corner	☐ 06.1135							

B. Perimeter Profile									Driver		
	Profile	Finish	Corner		Finish	End Cap	Finish	Connection cable	Optional "L" piece		
39.4" (1m)	☐ 06.1115	00= Primer 40= White	Vertical Corner	☐ 06.1130	00= Primer 40= White	☐ 08.8914	00= Primer 40= White	☐ 06.1140.00	☐ 08.8915.00	☐ LED96W24V	LED Driver 96W
78.7" (2m)	☐ 06.1120		Inside Corner	☐ 06.1131							
			Outside Corner	☐ 06.1132							

EDGE EV3WG

EVOLUTION

LED Recessed Linear

Wall Grazer for Textured Walls



Project Name

Date

Catalog Number

Type

CONSTRUCTION Extruded aluminum trim with formed cold rolled 20 gauge steel back box housing. Extruded aluminum module with micro reflector for perfect wall grazing illumination.

APPLICATION Edge Evolution Wall Grazer is designed to highlight textured wall surfaces. Not recommended for smooth surfaces. For smooth surface walls, refer to Edge Evolution Wall Wash or Edge Evolution Outline.

ELECTRICAL Electronic, 120 to 277 volt input and 36V output. 0-10 volt dimming standard. Must specify 1D in circuiting for dimming.

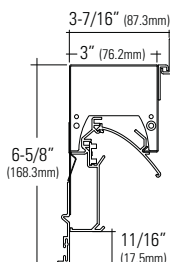
LED All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. R9≥20, 27K is CRI≥90, 30K, 35K, and 40K is CRI≥82. Minimum lifetime greater than 60,000 hours.

MOUNTING Edge is designed to install into acoustical grid and inaccessible ceilings. Specify GXG, FL, SFS, NFN for individual, unjoinable units (individual units will fall on-grid). Specify GX, FL, SF, NF for continuous runs (runs designed to fall on-grid). Wall Grazer must be installed prior to ceiling installation. Consult factory for detailed installation instructions.

FINISH Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish, consult factory for chip of standard paint finishes. Contact factory for additional custom color and finish options.

WARRANTY Edge LED offered with a 5-year limited warranty. Covers LED, driver and fixture.

LABELS IC Rated, UL and cUL Listed, approved for dry/damp location unless otherwise noted.



LUMINAIRE SPECIFICATION

Sample Catalog #: EV3WG-30-24'-FL-120-1C-V

EV3WG-

HOUSING	COLOR/LUMENS	LENGTH	MOUNTING ¹	VOLTAGE	CIRCUITING	FINISH	OPTIONS
EV3WG- Edge Evolution 3 Wall Grazer for textured wall surfaces ¹⁰	Individual Units² 2- 2', 23" (584.2mm) fixture ² 3- 3', 35" (889mm) fixture ² 4- 4', 47" (1193.8mm) fixture ² 6- 6', 71" (1803.4mm) fixture ² 8- 8', 95" (2413mm) fixture ² Continuous Runs³ xx'- Specify row length to 1' (304.8mm) increments		Individual Units (CANNOT BE JOINED)² Acoustical Grid Ceiling G1G- 1" (25.4mm) Ceiling Grid G9G- 9/16" (14.3mm) Ceiling Grid GBG- 9/16" (14.3mm) Ceiling Grid with Bevel Trim GSG- Screw Slot Ceiling Grid Inaccessible Ceiling FLF- Standard 1/2" (12.7mm) Flange SFS- Spackle Flange NFN- Flangeless ⁴ Continuous Runs (JOINABLE)³ Acoustical Grid Ceiling G1- 1" (25.4mm) Ceiling Grid G9- 9/16" (14.3mm) Ceiling Grid GB- 9/16" (14.3mm) Ceiling Grid with Bevel Trim GS- Screw Slot Ceiling Grid Inaccessible Ceiling FL- Standard 1/2" (12.7mm) Flange SF- Spackle Flange NF- Flangeless ⁴	120- 120 V 277- 277 V UNV- UNV (120-277)	1C- Single Circuit 1D- Single Circuit Dimming ⁵ 1B- Single Circuit with Battery Pack ^{5,6} 1E- Single Circuit with Emergency Circuit ⁶	W- Matte White S- Metallic Silver BL- Textured Black GR- Graphite BR- Bronze CC- Custom Color CP- Chicago Plenum C90I- 90° Inside Corner ^{7,9} C90O- 90° Outside Corner ^{7,9} C45I- 45° Inside Corner ^{7,9} C45O- 45° Outside Corner ^{7,9} EF- End Filler ⁸	
27K Color Temperature Lumen Options 27- 27K, 249 lumens/ft (6.0 watts/ft) 27HO- 27K, 393 lumens/ft (10.3 watts/ft) 30K Color Temperature Lumen Options 30- 30K, 303 lumens/ft (6.0 watts/ft) 30HO- 30K, 479 lumens/ft (10.3 watts/ft) 35K Color Temperature Lumen Options 35- 35K, 316 lumens/ft (6.0 watts/ft) 35HO- 35K, 500 lumens/ft (10.3 watts/ft) 40K Color Temperature Lumen Options 40- 40K, 324 lumens/ft (6.0 watts/ft) 40HO- 40K, 513 lumens/ft (10.3 watts/ft) Custom Output CL_____ Specify color temp. and lumens/ft. (i.e. CL35600) CW_____ Specify color temp. and wattage/ft. (i.e. CW407.5) (Specify lumens/watts between standard offering listed above. Lumens are specified per color temp.)							

¹See back page for mounting detail. ²Individual units cannot be joined. All end trims are factory installed and cannot be removed in the field. ³Continuous Rows made up of both even and odd length fixtures. Designed to fall on-grid. ⁴NF and NFN to be utilized for metal pan / millwork ceiling. ⁵Some Edge configurations will not accommodate all electrical options. Consult factory. ⁶Integral battery packs with remote test switch are provided with 1B option. ⁷See back page for corner details. ⁸End Filler option used for fitting fixture into odd lengths. Filler is non-illuminated. ⁹Submittal drawings required. ¹⁰Designed to highlight textured wall surfaces. Not recommended for smooth surfaces. Refer to Edge Evolution Wall Wash or Outline for smooth surface applications.



PINNACLE
ARCHITECTURAL LIGHTING

Pinnacle Architectural Lighting 12655 East 42nd Avenue, Suite 50 Denver, CO 80239
Phone 303.322.5570 Fax 303.322.5568 www.pinnacle-ltg.com

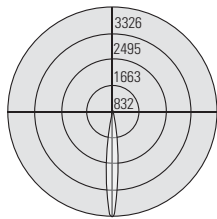
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February 2016

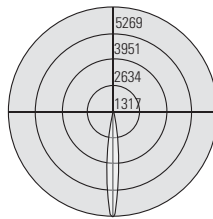
Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previous printed or electronic versions.

PHOTOMETRICS

EV3_WG

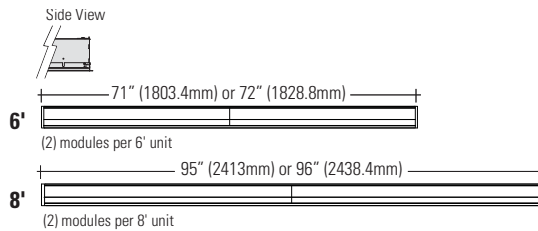
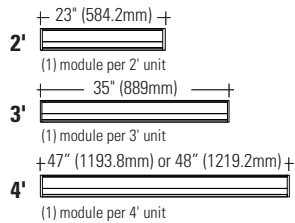


Test #: ILT82935
Part #: EV3WG-40-4'
Lumens per watt: 54
Total Delivered Lumens: 1296



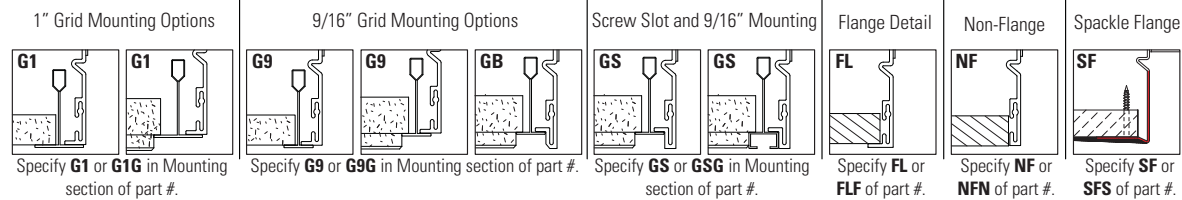
Test #: ILT82934
Part #: EV3WG-40HQ-4'
Lumens per watt: 50
Total Delivered Lumens: 2050

• INDIVIDUAL AND CONTINUOUS RUN MODULES¹

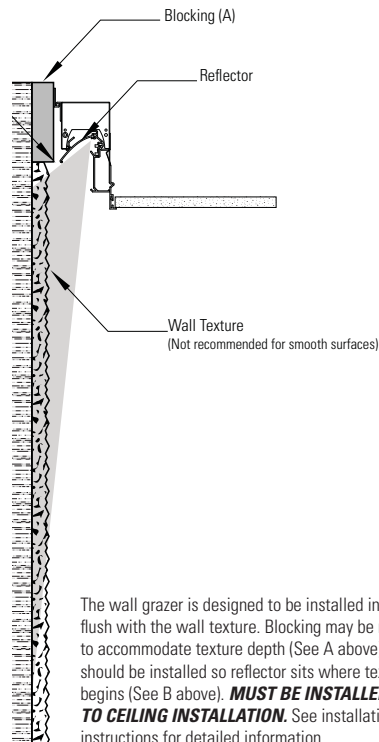


¹Acoustical Grid Ceiling and Inaccessible Ceilings available as individual units or continuous rows. Individual units and rows are available for on-grid installation with acoustical ceilings.

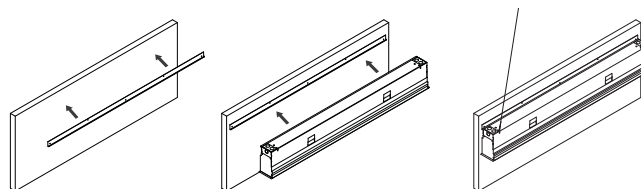
• MOUNTING



• APPLICATION GUIDELINES

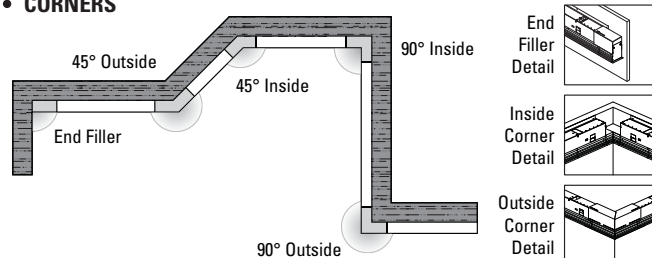


• INSTALLATION



The wall grazer easily installs into any acoustical grid and inaccessible ceiling. Install wall rail onto wall and hook fixture onto rail. Tie off fixture to structure. In some installations, additional blocking may be required to accommodate texture depth. **MUST BE INSTALLED PRIOR TO CEILING INSTALLATION.** See installation instructions for detailed information.

• CORNERS



Pinnacle Lighting's wall grazer provides inside and outside corners, and End Fillers for full room perimeter lighting. The 45 degree and 90 degree corners allow for +/- 5 degrees of adjustability to accommodate any wall imperfections. Specify runs to the nearest foot and non-illuminated corners are slid into place to finish the perimeter lighting. Minimum distance for corners is 5-1/2" from the wall, with a max of 12" away from the wall. The End Fillers have a maximum of 6" per end. See installation instructions for detailed information.



PROFESSIONAL
OUTDOOR LIGHTING

SPECIFICATION SHEET

Type:

Model:

Project:

MODEL 3108 Landscape Series • Up & Accent Lights

FIXTURE SPECIFICATIONS:

HOUSING:

Die-cast, copper-free aluminum.

SHROUD:

Die-cast, copper-free aluminum fitted to housing with a closed-cell molded silicone gasket – providing a superior weather-tight seal. Door is designed to shed water from the lens surface.

FINISH:

Polyester powder-coat finish available in Black, Verde, Architectural Brick, Architectural Bronze, Light Bronze, Dark Bronze, Granite, Pewter, Terracotta, Rust, Hunter Green, Mocha, Weathered Bronze, Weathered Iron, and White.

LENS:

Clear, tempered, shock and heat-resistant, soda-lime glass lens.

LAMP TYPE:

LED Lamp Only - Cree® MT-G2 High Density Array (HDA) driven at 4.5-watts, 9.5-watts, or 13-watts. Color temperature available in W - Warm (3000K), N - Neutral (4000K), C - Cool (5000K), 27 - (2700K), 35 - (3500K).

ELECTRICAL:

Input voltage range 9 - 15V AC.

OPTICS:

Available in VNS - Very Narrow Spot, SP - Spot, MF - Medium Flood, or WF - Wide Flood.

MOUNTING:

Injection-molded composite adjustable knuckle with ½" NPS thread. Fixture may be mounted into threaded hubs in junction boxes, ground stakes (GR), tree mount boxes (TR), or mounting canopies (WR).

FASTENERS:

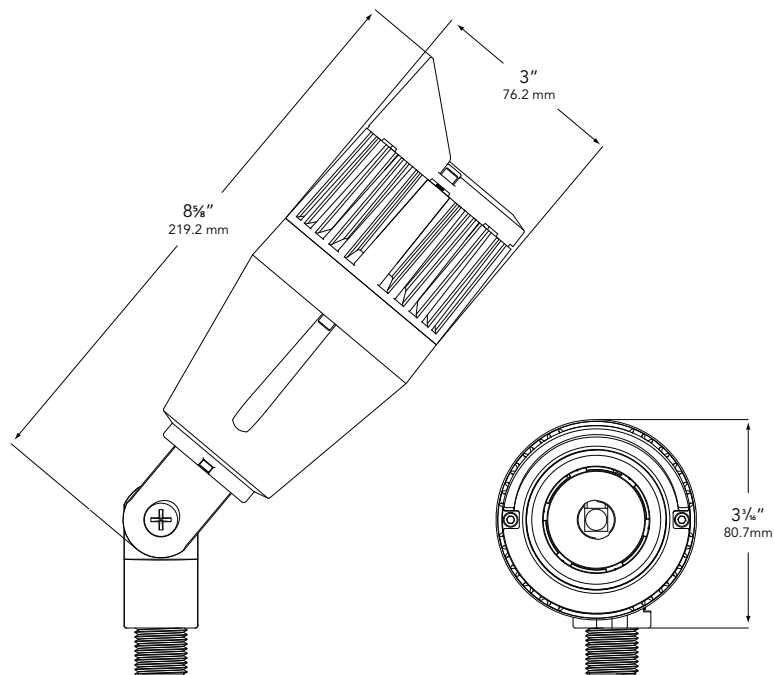
All fasteners are stainless steel.

WIRING:

Prewired with a 36" pigtail of 18-2 direct-burial cable and underground connectors for a secure connection to supply cable.

All Vista luminaires are **MADE IN U.S.A.**

DIMENSIONS:



Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.



PROFESSIONAL
OUTDOOR LIGHTING

SPECIFICATION SHEET

MODEL 3108 Landscape Series • Up & Accent Lights

FIXTURE ORDERING INFORMATION

TO ORDER FIXTURE: Select appropriate choice from each column as in the following example.

EXAMPLE: GR-3108-B-4.5-W-SP

MOUNTING	MODEL	FINISH	WATTAGE	COLOR TEMP	DISTRIBUTION	ACCESSORIES
GR- ABS ground stake WR- Wall-mount canopy TR- Tree-mount J-box	3108	B - Black G - Verde BR - Architectural Brick Z - Architectural Bronze LZ - Light Bronze DZ - Dark Bronze SB - Special Bronze GT - Granite P - Pewter TC - Terracotta R - Rust HG - Hunter Green M - Mocha WB - Weathered Bronze WI - Weathered Iron W - White	4.5 9.5 13	W - Warm N - Neutral C - Cool 27 - 2700K 35 - 3500K	VNS - Very Narrow Spot SP - Spot MF - Medium Flood WF - Wide Flood	HL - Honeycomb Louver

Fixtures shipped with standard lamp, unless otherwise specified.
Fixtures shipped with specified mounting hardware.

LUMEN OUTPUT PACKAGES

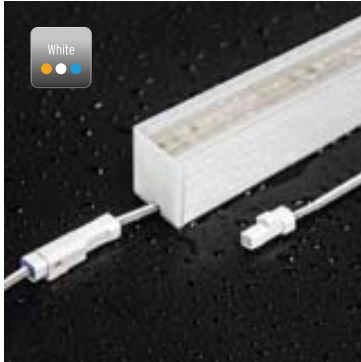
Watts	Lumens
-------	--------

Beam Spread	4.5	9.5	13
VNS	4.5 Watts 135 Lumens	9.5 Watts 214 Lumens	13 Watts 269 Lumens
NS	4.5 Watts 364 Lumens	9.5 Watts 566 Lumens	13 Watts 738 Lumens
MF	4.5 Watts 321 Lumens	9.5 Watts 487 Lumens	13 Watts 711 Lumens
WF	4.5 Watts 332 Lumens	9.5 Watts 542 Lumens	13 Watts 686 Lumens

Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.



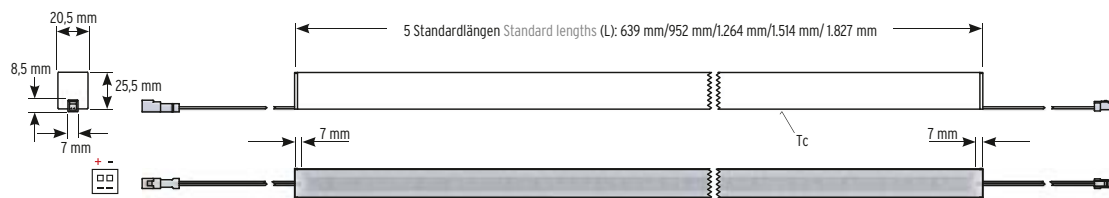
KALYPSO HYDRA White IP67



24 V, lichtstarke, IP67 geschützte und IK10 geprüfte, lineare LED-Leuchte mit kleinem Formfaktor und präzisen Linearoptiken für optimale Lichtlenkung. Sie ist IP67 geschützt gegen Wasser, Salzwasser, Lösungsmittel und UV-Strahlung durch einen klaren Polyurethanvergiess. Das Profil mit kleinem Querschnitt und wahlweise 10° Streiflicht, 30° oder 60° allgemeine Beleuchtungsoptik, garantiert eine gezielte Ausleuchtung der Beleuchtungsaufgabe. Sie ist in 5 Standardlängen erhältlich und wird steckerfertig mit einem IP67 Mini-Stecker geliefert. Die Montage wird mit unsichtbaren Lichtfugen und Anschlüssen realisiert. Lebensdauer von > 60.000 h (L80/B10). Made in Germany.

24 V, light intensive, IP67 protected and IK10 certified, linear LED luminaire with small form factor and precise linear optics for optimum directional light. It is IP67 protected against water, salt water, solvents and UV radiation by a clear polyurethane encapsulation. The profile of small cross section and either 10° wall grazing, 30° or 60° general illumination optics, guarantees a perfect and targeted illumination of the specific lighting task. It is available in 5 standard lengths and supplied ready to plug in with a IP67 mini-connector. The mounting is realized with invisible light joints and connections. Lifetime of > 60,000 hrs (L80/B10). Made in Germany.

Abmessungen & verfügbare Längen Dimensions & available lengths



Klar vergossene LED Lichtlinie mit Linsen
Clear encapsulated LED light line with lenses

Tc-Punkt (Gehäuse Temp.) auf der Rückseite des Moduls
Tc-point (Case temp.) on the rear side of the module

Oberfläche: Weiße Pulverbeschichtung
Finish: White powder coated

Kabellänge ca. 180 mm
Cable length approx. 180 mm

Elektrische & Optische Betriebsdaten Electrical & output data

Spannung Voltage	24 Volt (23 V _{min} , 25 V _{max})
Temperatur Temperature ²	T _{cmin} = -25°C, T _{cmax} (untere Tabelle Table below)
Lagertemperatur Storage temperature	T _{smin} = -30°C, T _{smax} = 85°C
Außentemperatur Ambient temperature	T _{amin} = -25°C, T _{amax} (untere Tabelle Table below)
Ra CRI	bis zu up to 95
R9	bis zu up to 65

KALYPSO HYDRA	HD6	HD10	HD15	HD25	HD36
Leistung Power (W/m) ¹	6	10	15	25	36
Effizienz Efficacy (lm/W) ¹	93	94	101	98	99
max. serielle Lauflänge bei einer Einspeisung max. serial run length (mm)	5000	5000	4000	3000	2000
Temp. Tc-Punkt Temp. Tc-point (T _{cmax}) ²	70°C	70°C	70°C	75°C	85°C
max. Außentemp. max. Ambient temp. (T _{amax})	40°C	40°C	40°C	40°C	35°C

Farbtemperatur Color temperature ³		HYDRA HD6	HYDRA HD10	HYDRA HD15	HYDRA HD25	HYDRA HD36
		lumen/meter (lm/m) ¹				
● W820	2000 K	330	550	870	1420	2070
● W822	2200 K	370	620	1000	1620	2370
● W825	2500 K	430	710	1140	1850	2710
● W827 W927	2700 K	380	640	1210	1970	2870
● W830 W930	3000 K	390	650	1280	2090	3050
● W835 W935	3500 K	400	670	1350	2190	3200
● W840 W940	4000 K	410	680	1380	2240	3270
● W850	5000 K	560	940	1510	2450	3580

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

² Der Tc-Punkt sollte im thermisch eingeschwungenen Zustand gemäß EN 60598-1 gemessen werden.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.



Bestellnummer Order code

Ihre Bestellnummer Your order code	KALYPSO HYDRA	HD__	W__	__	__	__	IP67
Bestellnummer Beispiel Order code example	KALYPSO HYDRA	HD10	W9	27	1514	30	IP67

LED tape

HYDRA HD6	HD6
HYDRA HD10	HD10
HYDRA HD15	HD15
HYDRA HD25	HD25
HYDRA HD36	HD36

Color rendering

> 80	8
> 90 (only HD6, HD10)	9

Color temperature

2000 K	20
2200 K	22
2500 K	25
2700 K	27
3000 K	30
3500 K	35
4000 K	40
5000 K	50

Length

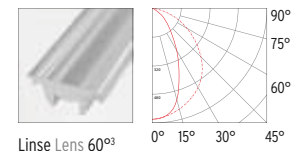
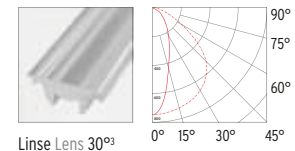
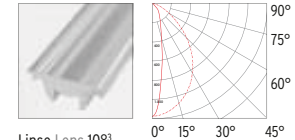
639 mm (2 clips recommended)	0639
952 mm (2 clips recommended)	0952
1.264 mm (3 clips recommended)	1264
1.514 mm (3 clips recommended)	1514
1.827 mm (4 clips recommended)	1827

Lens options (DIN 5040:A50)

10°	10
30°	30
60°	60

Ingress protection

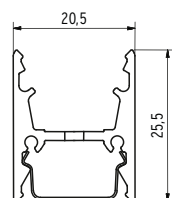
IP67	IP67
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³ DIN 5040:A50
cd/1000 lumen
C0/C180
C90/C270

Bitte wählen Sie Ihr Zubehör aus Please choose your accessories

Montage Mounting	Art.-#
☐ Mounting clip for VarioContour 010 (required every 40 cm)	13000104
☐ Contour 010 Adjustable Wall Mount Set	13000165
☐ Mounting Lock ⁴	13000192



Verlängerungskabel Extensions / Jumpers (optional)	Art.-#
☐ VarioCon Female Mini 2 x 0,34 mm ² , 2 m IP67	15000142
☐ VarioCon Extension Mini 2 x 0,34 mm ² , 0,1 m IP67	15000143
☐ VarioCon Female Mini Protection Cap Mono IP67 ⁵	15000218

Empfohlene Vorschaltgeräte Recommended drivers	Art.-#
☐ VarioPSU 24 V/90 W IP67, 1 - 10 V Black, 90 - 305 V supply	16000154

Empfohlene Steuerungen Recommended controls	Art.-#
☐ VarioControl LinearDrive 210D DALI	17000037

Einfache und saubere Montage durch innenliegenden Montageclip. Zudem dient das H-Profil der ADONIS/KALYPSO auch als Kabelkanal. Daher sind keine Clips oder Kabel von außen sichtbar.

Easy and clean installation due to internal mounting clips. ADONIS / KALYPSO H-channel also acts as cable raceway. Therefore you do not see any clips or cables from the outside.

⁴Der Nutenstein dient zur Fixierung der verschiebbaren Montage Clips und ermöglicht dadurch einen vertikalen Wandanbau.

⁵Erforderlich für die IP67 Steckerabdichtung am Ende der Leuchte/Leuchtenreihe.

⁴The mounting lock is used to fix the sliding mounting clips, thus allowing a vertical wall mounting.

⁵Required for IP67 connector sealing at end of runs.



PROFESSIONAL
OUTDOOR LIGHTING

SPECIFICATION SHEET

Type:

Model:

Project:

MODEL 3108 Landscape Series • Up & Accent Lights

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Die-cast, copper-free aluminum.

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Die-cast, copper-free aluminum fitted to housing with a closed-cell molded silicone gasket – providing a superior weather-tight seal. Door is designed to shed water from the lens surface.

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Input voltage range 9 - 15V AC.

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Available in VNS - Very Narrow Spot, SP - Spot, MF - Medium Flood, or WF - Wide Flood.

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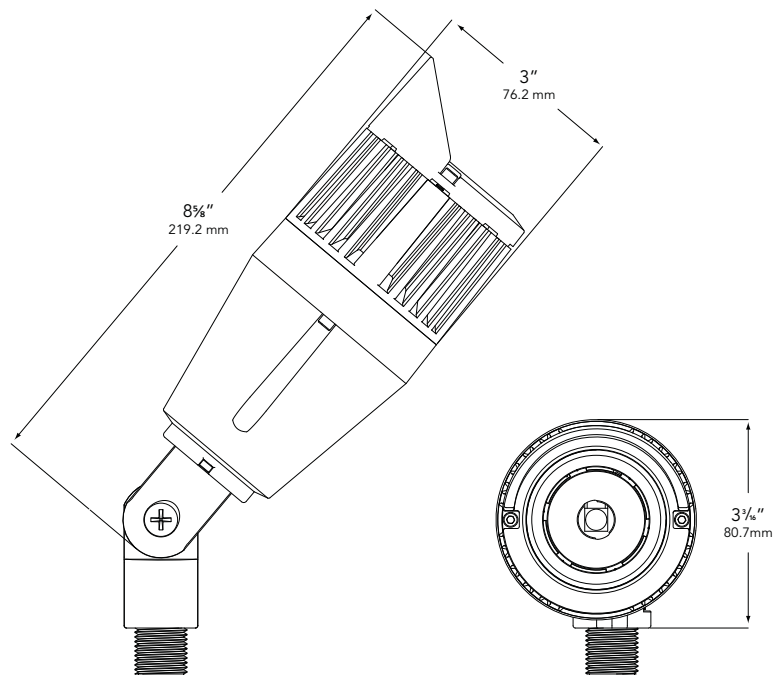
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Prewired with a 36" pigtail of 18-2 direct-burial cable and underground connectors for a secure connection to supply cable.

All Vista luminaires are **MADE IN U.S.A.**

DIMENSIONS:



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PROFESSIONAL
OUTDOOR LIGHTING

SPECIFICATION SHEET

MODEL 3108 Landscape Series • Up & Accent Lights

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Fixtures shipped with specified mounting hardware.

LUMEN OUTPUT PACKAGES

Watts	Lumens
-------	--------

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MF	4.5 Watts 321 Lumens	9.5 Watts 487 Lumens	13 Watts 711 Lumens
WF	4.5 Watts 332 Lumens	9.5 Watts 542 Lumens	13 Watts 686 Lumens

Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.

Reeds Floor

T087408

SPECIFICATIONS



Design By

Klaus Begasse

Collection

Outdoor



Colors & Finishes

- ☐ Transparent (Rods)
- ☒ Anthracite grey (Base)

Materials

- 7 transparent rods in PMMA
- Base made of a polycarbonate casing installed between 2 aluminum plates and anti-scratch support feet
- Gasket made in silicone

Specifications

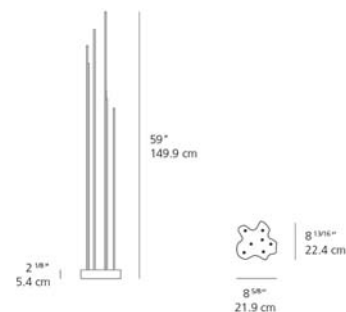
Lumen output	79lm
Light output ratio	8.78lm/W
Power consumption	9W
Led type	7X8.5W Array*
CCT (Correlated Color Temperature)	3000K
CRI (Color Rendering Index)	>80
Life expectancy	50000Hrs
Control type	On/Off
Input Voltage	120V
Driver	TCI - 1 x DCC-15W-350MA/US
BUG Rating	B0-U3-G0

*Integrated light source

Features & Accessories

- Water sealing is assured by a gasket
- Fixture can be fastened to floor by means of holes in the lower plate
- Complete with integrated driver
- Supplied with a 4'11"-long H05RN-F 2x1 cable
- Standard non dimmable
- For dimming options, please consult with your Artemide Sales Representative

Dimensions



Packaging

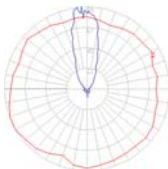
2 Boxes

1 x 15-7/16" x 15-7/16" x 8-5/16" / 6.17 lbs - 39 cm x 39 cm x 20.8 cm / 2.8 kg

1 x 61-1/8" x 2-1/4" x 2-1/4" / 1.96 lbs - 155 cm x 5.5 cm x 5.5 cm / .89 kg

Light distribution

Indirect



Red = Max Cd. Through Vertical plane
Blue = Max Cd. Through Horizontal plane

Luminaire weight

4.19 lbs / 1.9 kg

Warranty

5 year limited warranty



Date: _____ Type: _____

Firm Name: _____

Project: _____

eW Flex Compact

Flexible strands of high-intensity LED nodes with solid white light

Ordering Information

Select one component from each column to specify a complete configuration.

Color Temperature	Node Count	Node Spacing	Node/Cable Color	Lens
2000 K	1	3 in	White	Clear Flat
2700 K	•	4 in	Black	Translucent Flat
3000 K	•	•	Clear	Semi-Frosted Flat
3500 K	50	•		Clear Dome
4000 K	•	12 in		Translucent Dome
5000 K	•	•		Semi-Frosted Dome
5700 K	60	•		Narrow Beam
6500 K		24 in		

In addition to the standard node count of 50 per string, you can specify any node count between 1 and 60 per string.

In addition to standard node spacing of 4 in and 12 in on center, you can specify any on-center node spacing from 3 in to 24 in, in English or metric units.

 = Standard component

Standard Configurations

If you select all standard components (shaded teal), find your configuration in the standard configurations list, and order using the Item Number or Philips 12NC. Standard configurations are not subject to minimum order quantities or extended production lead times.

Standard Configuration Example: eW Flex Compact, 50 nodes, 12 in, White node/cable, Narrow Beam Lens

(Use Item Number 500-000012-58 or Philips 12NC 912400135784)

Custom Configurations

If you select one or more non-standard (non-shaded) components, your configuration is custom.

Minimum Order Quantity: 10 strings per configuration

Production Lead Time: 12 weeks ARO (standard shipping options apply)

Custom Configuration Example: Special, eW Flex Compact, 5700 K, 25 nodes, 3 in, Clear node/cable, Translucent Dome Lens

(Contact your Philips Color Kinetics Lighting Sales group with the product description for custom configurations.)

In North America contact: Philips Color Kinetics Sales, 888.385.5742 or sales@colorkinetics.com

PHILIPS

eW Flex Compact Standard Configurations

Item	Type			Item Number	Philips 12NC
eW Flex Compact 50 nodes 4 in on-center node spacing	2700 K	Clear Flat Lens	White	500-000012-00	912400130619
			Black	500-000012-01	912400130620
		Translucent Dome Lens	White	500-000012-02	912400130621
			Black	500-000012-03	912400130622
		Narrow Beam Lens	White	500-000012-56	912400135782
			Black	500-000012-57	912400135783
	3000 K	Clear Flat Lens	White	500-000012-08	912400130627
			Black	500-000012-09	912400130628
		Translucent Dome Lens	White	500-000012-10	912400130629
			Black	500-000012-11	912400130630
		Narrow Beam Lens	White	500-000012-60	912400135786
			Black	500-000012-61	912400135787
	3500 K	Clear Flat Lens	White	500-000012-16	912400130635
			Black	500-000012-17	912400130636
		Translucent Dome Lens	White	500-000012-18	912400130637
			Black	500-000012-19	912400130638
		Narrow Beam Lens	White	500-000012-64	912400135790
			Black	500-000012-65	912400135791
	4000 K	Clear Flat Lens	White	500-000012-24	912400130643
			Black	500-000012-25	912400130644
		Translucent Dome Lens	White	500-000012-26	912400130645
			Black	500-000012-27	912400130646
		Narrow Beam Lens	White	500-000012-72	912400135798
			Black	500-000012-73	912400135799
	5000 K	Clear Flat Lens	White	500-000012-48	912400133735
			Black	500-000012-49	912400133736
		Translucent Dome Lens	White	500-000012-50	912400133737
			Black	500-000012-51	912400133738
		Narrow Beam Lens	White	500-000012-76	912400135803
			Black	500-000012-77	912400135804
	5700 K	Clear Flat Lens	White	500-000012-32	912400130651
			Black	500-000012-33	912400130652
		Translucent Dome Lens	White	500-000012-34	912400130653
			Black	500-000012-35	912400130654
		Narrow Beam Lens	White	500-000012-80	912400135807
			Black	500-000012-81	912400135808
	6500 K	Clear Flat Lens	White	500-000012-40	912400130659
			Black	500-000012-41	912400130660
		Translucent Dome Lens	White	500-000012-42	912400130661
			Black	500-000012-43	912400130662
		Narrow Beam Lens	White	500-000012-84	912400135811
			Black	500-000012-85	912400135812

Use Item Number when ordering in North America.

Features

eW Flex Compact is a versatile strand of individually controllable white light LED nodes. The flexible form factor allows dynamic points of white light to be installed across nearly any interior or exterior surface, including walls, ceilings, floors, three-dimensional sculptures, and set pieces. eW Flex Compact can also light tight alcove spaces and signage.

- Daylight visible—At full brightness, each node produces light output of up to 89.6 candela and 129,758 nits for each node.
- Multiple lens options—Standard clear flat and translucent dome lenses. Optional translucent flat, clear dome, semi-frosted flat, and semi-frosted dome lenses are available.
- Adaptable mounting—Strands can be mounted directly to a surface, like traditional string lights. Detachable leader cables in multiple lengths allow you to install strings at the appropriate distance from power/data supplies. Optional mounting tracks ensure straight linear runs, while snap-on spacers hide cabling and mounting hardware. Single node mounts can be positioned individually as anchor points for installations with uneven node spacing or complex geometries.
- Outdoor rated—Fully sealed for maximum fixture life and IP66-rated for outdoor applications.

For detailed product information, please refer to the eW Flex Compact Product Guide at www.colorkinetics.com/ls/essentialwhite/ewflexcompact

Item	Type			Item Number	Philips 12NC
eW Flex Compact 50 nodes 12 in on-center node spacing	2700 K	Clear Flat Lens	White	500-000012-04	912400130623
			Black	500-000012-05	912400130624
		Translucent Dome Lens	White	500-000012-06	912400130625
			Black	500-000012-07	912400130626
		Narrow Beam Lens	White	500-000012-58	912400135784
			Black	500-000012-59	912400135785
	3000 K	Clear Flat Lens	White	500-000012-12	912400130631
			Black	500-000012-13	912400130632
		Translucent Dome Lens	White	500-000012-14	912400130633
			Black	500-000012-15	912400130634
		Narrow Beam Lens	White	500-000012-62	912400135788
			Black	500-000012-63	912400135789
	3500 K	Clear Flat Lens	White	500-000012-20	912400130639
			Black	500-000012-21	912400130640
		Translucent Dome Lens	White	500-000012-22	912400130641
			Black	500-000012-23	912400130642
		Narrow Beam Lens	White	500-000012-66	912400135792
			Black	500-000012-67	912400135793
	4000 K	Clear Flat Lens	White	500-000012-28	912400130647
			Black	500-000012-29	912400130648
		Translucent Dome Lens	White	500-000012-30	912400130649
			Black	500-000012-31	912400130650
		Narrow Beam Lens	White	500-000012-74	912400135801
			Black	500-000012-75	912400135802
	5000 K	Clear Flat Lens	White	500-000012-52	912400133739
			Black	500-000012-53	912400133740
		Translucent Dome Lens	White	500-000012-54	912400133741
			Black	500-000012-55	912400133742
		Narrow Beam Lens	White	500-000012-78	912400135805
			Black	500-000012-79	912400135806
	5700 K	Clear Flat Lens	White	500-000012-36	912400130655
			Black	500-000012-37	912400130656
		Translucent Dome Lens	White	500-000012-38	912400130657
			Black	500-000012-39	912400130658
		Narrow Beam Lens	White	500-000012-82	912400135809
			Black	500-000012-83	912400135810
	6500 K	Clear Flat Lens	White	500-000012-44	912400130663
			Black	500-000012-45	912400130664
		Translucent Dome Lens	White	500-000012-46	912400130665
			Black	500-000012-47	912400130666
		Narrow Beam Lens	White	500-000012-86	912400135813
			Black	500-000012-87	912400135814

Use Item Number when ordering in North America.

Power/Data Supplies

Item	Type	Item Number	Philips 12NC
PDS-60ca 24V Power/ Data Supply	Pre-programmed	109-000016-00	910503700095
	DMX/Ethernet	109-000016-04	912400133526
sPDS-60ca 24V Power/ Data Supply	DMX/Ethernet (NA Cord)	109-000021-04	912400133527
	DMX/Ethernet (EU/UK Cord)	109-000021-05	912400133636
sPDS-480ca 24V Power/ Data Supply	Ethernet	109-000026-01	912400133528

Use Item Number when ordering in North America.

Accessories

Item	Type	Color	Item Number	Philips 12NC
Leader Cable	7.6 m (25 ft)	Black	108-000045-00	910503700696
	15.2 m (50 ft)	Black	108-000045-01	910503700697
	30.5 m (100 ft)	Black	108-000045-02	910503700698
Mounting Track Qty 1	1.2 m (4 ft) track	White	101-000057-00	910503700044
		Black	101-000057-01	910503700045
Spacers Qty 50	102 mm (4 in) spacers	White	101-000059-00	910503700048
		Black	101-000061-00	910503700052
	305 mm (12 in) spacers	White	101-000059-01	910503700049
		Black	101-000061-01	910503700053
Single-Node Mounts Qty 50		White	101-000058-00	910503700046
		Black	101-000058-01	910503700047

Use Item Number when ordering in North America.

Item	Type	Color	Item Number	Philips 12NC
Marquee Lens Kits Qty 50	Clear Lens	White	999-007997-00	910503702308
		Black	999-007997-01	910503702309
	Semi-Frosted Lens	White	999-007997-04	910503702312
		Black	999-007997-05	910503702313
	Translucent Lens	White	999-007997-02	910503702310
		Black	999-007997-03	910503702311
Glare Shield Kits Qty 50		Black	120-000179-00	912400130036
Accessory Mounting Track Qty 1	1.2 m (4 ft)	White	101-000057-03	910503704266
		Black	101-000057-04	910503704267
Accessory Spacers Qty 50	102 mm (4 in)	White	101-000075-00	910503704272
		Black	101-000075-02	910503704274
	305 mm (12 in)	White	101-000075-01	910503704273
		Black	101-000075-03	910503704275

Use Item Number when ordering in North America.

 Marquee Lens Kits are compatible only with Flat Lens.





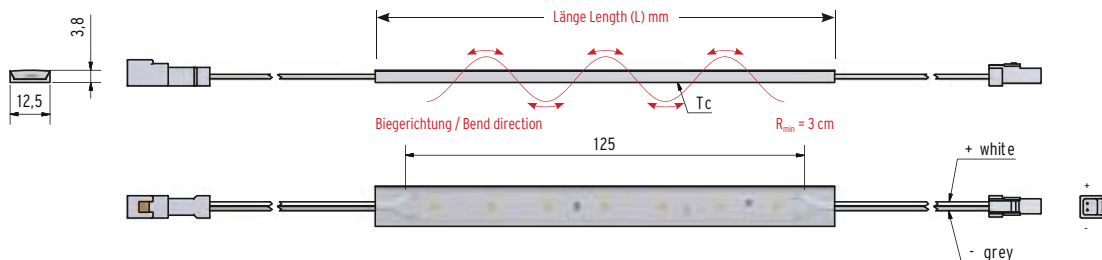
VarioLED™ Flex HYDRA LD White IP67



Wasser- und UV-geschützte flexible lineare LED Leuchte in bis zu 7,5 m Länge im Polyurethanverguss mit weißem Boden und mit 200 mm IP67 Mini Steckverbinder an beiden Enden.

Water & UV resistant flexible linear LED luminaire in up to 7,5 m length in polyurethane encapsulation with white casing and with 200 mm IP67 mini connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144 \text{ mm}$; $LD5 \triangle L_{max} = 7.519 \text{ mm}$; $LD10 \triangle L_{max} = 5.019 \text{ mm}$; $LD15 \triangle L_{max} = 4.019 \text{ mm}$
($LD5 \triangle N = 1... 60$, $LD10 \triangle N = 1... 40$, $LD15 \triangle N = 1... 32$)

Tc-Punkt: Gesamte Rückseite des vergossenen LED Bands
Tc-point: Entire encapsulated flexboard rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		lumen/meter (lm/m) ¹		
		LD5	LD10	LD15
● W820	2500 K	340	680	1090
● W822	2900 K	390	780	1250
● W825	3300 K	450	890	1430
● W827	W927 3800 K 3600 K	400	950	1510
● W830	W930 4300 K 4300 K	400	1000	1600
● W835	W935 5100 K 4900 K	420	1050	1690
● W840	W940 6100 K 6600 K	430	1080	1720
● W850	9600 K	590	1180	1880

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED Flex HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED Flex HYDRA	LD5	W9	27	7519	IP67

Zubehör Accessories

erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. e. g. Art.-# 16000154	Steuerprotokoll Power control system z. B. e. g. Art.-# 17000037
Buchse Female connector z. B. e. g. Art.-# 15000142	3M Klebeband 3M Adhesive tape Art.-# 18200035
	Transparenter Montageclip Transparent mounting clip Art.-# 13000115

Details siehe Seite 338 ff. Details on page 338 ff.



VarioLED™ HYDRA LD White IP67



VarioLED™ HYDRA LD5 IP67, Contour C 013



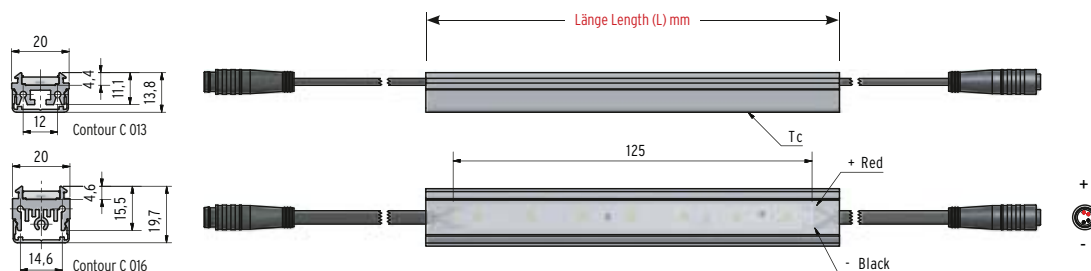
VarioLED™ HYDRA LD25 IP67, Contour C 016



Wasser- und UV-geschützte lineare LED Leuchte im Aluminiumprofil mit bis zu 4 m Länge, Polyurethanverguss und 110 mm IP67 Steckverbinder an beiden Enden.

Water & UV resistant linear LED luminaire in aluminum profile with up to 4 m length, polyurethane encapsulation and 110 mm IP67 connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144$ mm; LD5/LD10/LD15 $\triangle L_{max} = 4.019$ mm; LD25 $\triangle L_{max} = 3.019$ mm
(LD5/LD10/LD15 $\triangle N = 1... 32$, LD25 $\triangle N = 1... 15$)

Tc-Punkt: Gesamte Profilrückseite
Tc-point: Entire Al-profile rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		LD5 in C 013	LD10 in C 013	LD15 in C 016	LD25 in C 016
		lumen/meter (lm/m) ¹			
● W820	2500 K	320	640	1030	1670
● W822	2900 K	370	730	1170	1910
● W825	3300 K	420	840	1340	2180
● W827	W927 3800 K	370	890	1420	2310
● W830	W930 4300 K	380	940	1510	2450
● W835	W935 5100 K	390	990	1590	2580
● W840	W940 6100 K	400	1010	1620	2630
● W850	9600 K	550	1110	1770	2880

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED HYDRA	LD5	W9	27	4019	IP67

Zubehör Accessories

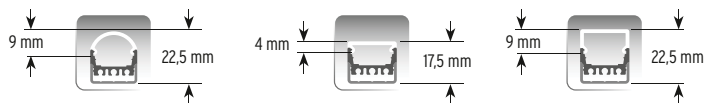
erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. z. B. e. g. Art.-# 16000154 Buchse Female connector z. B. z. B. e. g. Art.-# 15000091	1-10V Remote Steuerprotokoll Power control system z. B. z. B. e. g. Art.-# 17000037 Halteklammer Mounting Clip Art.-# 10000040 Montage-Profil Mounting Profile Art.-# 10000039

Details siehe Seite 338 ff. Details on page 338 ff.

Sicherheits- und Montagehinweise siehe Seite 410 ff. Safety and assembly information please see page 412 ff.

LED Linear™ GmbH

VarioContour 002



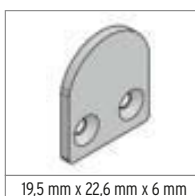
Bezeichnung Description	VarioContour 002 Base Profile
Artikelnummer Art.-No.	10000300
Einheit Unit	meter (m)
Min. VPE Min. OQ	30

Al Profil mit Haltenut für Abdeckungen (L x H x B) 2.000 mm x 11 mm x 19,5 mm
Aluminium profile with groove for various covers (L x H x W) 2,000 mm x 11 mm x 19,5 mm



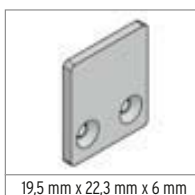
Bezeichnung Description	VarioContour 002/004/005 Mounting Profile
Artikelnummer Art.-No.	10000039
Einheit Unit	meter (m)
Min. VPE Min. OQ	30

Al Montageprofil für VarioContour 002/004/005/013/016 (L x H x B) 2.000 mm x 8 mm x 19,5 mm
Aluminium mounting profile for VarioContour 002/004/005/013/016 (L x H x W) 2,000 mm x 8 mm x 19,5 mm



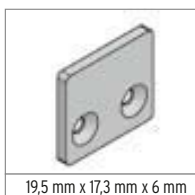
Bezeichnung Description	VarioCap 002 clear R (Set of 2)
Artikelnummer Art.-No.	11000112
Einheit Unit	Set/set (pu)
Min. VPE Min. OQ	10

Endkappen für VarioContour 002 inkl. Befestigungsschrauben
End Caps for VarioContour 002 incl. fixing screws



Bezeichnung Description	VarioCap 002 clear H² (Set of 2)
Artikelnummer Art.-No.	11000113
Einheit Unit	Set/set (pu)
Min. VPE Min. OQ	10

Endkappen für VarioContour 002 inkl. Befestigungsschrauben
End Caps for VarioContour 002 incl. fixing screws



Bezeichnung Description	VarioCap 002 clear L² (Set of 2)
Artikelnummer Art.-No.	11000114
Einheit Unit	Set/set (pu)
Min. VPE Min. OQ	10

Endkappen für VarioContour 002 inkl. Befestigungsschrauben
End Caps for VarioContour 002 incl. fixing screws



Bezeichnung Description	VarioClip 002/004/005 90 mm
Artikelnummer Art.-No.	10000040
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Al Halteklammer für VarioContour 002/004/005/013/016 (L x H x B) 90 mm x 8 mm x 19,5 mm
Aluminium mounting clip for VarioContour 002/004/005/013/016 (L x H x W) 90 mm x 8 mm x 19,5 mm

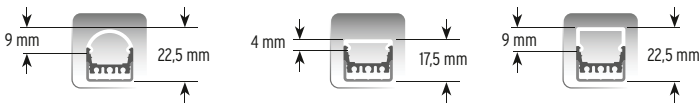


Bezeichnung Description	VarioClip 002/004/005 Plastic*
Artikelnummer Art.-No.	13000032
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Halteklammer aus Kunststoff für VarioContour 002/004/005 (L x H x B) 8 mm x 19,4 mm x 29,7 mm
Plastic mounting clip for VarioContour 002/004/005 (L x H x W) 8 mm x 19,4 mm x 29,7 mm

360

VarioContour 002



Bezeichnung	Description	Adjustable Mounting Bracket 002/004 (Set of 2)
Artikelnummer	Art.-No.	13000082
Einheit	Unit	Set/set (pu)
Min. VPE	Min. OQ	10
Montagebügel (frei justierbar) für VarioContour 002/004		
Adjustable mounting bracket for VarioContour 002/004		

Bezeichnung	Description	VarioContour 011 Silver
Artikelnummer	Art.-No.	10000500
Einheit	Unit	meter (m)
Min. VPE	Min. OQ	30
Al Montageprofil 30° oder 60° für VarioContour 002 (L x H x B) 4.000 mm x 29 mm x 26,5 mm		
Aluminum mounting profile for 30° or 60° orientation for VarioContour 002 (L x H x W) 4,000 mm x 29 mm x 26,5 mm		

* Keine Verwendung in Verbindung mit Montageprofil * No use in connection with mounting profile



PARADOX 4

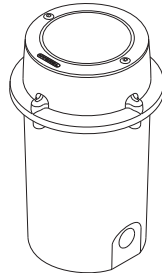
4" Architectural In-Grade
LED (Line Voltage)

Specifications

L:	5"
	127 mm
W:	4"
	102 mm
H:	8"
	203 mm

LED IP67

Suitable For Wet Locations



CATALOG NUMBER	
NOTES	
TYPE	

DESCRIPTION

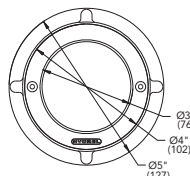
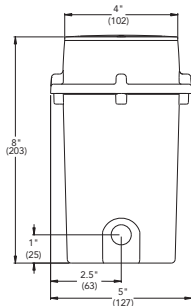
Hydrel's PDX4 Paradox Series sealed in-grade luminaire is a multi-purpose unit designed for up lighting architectural and landscape features. These luminaires can be flush mounted into a variety of substrates including concrete, tile, mulch and decking.

The PDX4 is IC rated up to 35 watts for wood or insulation applications

ORDERING INFORMATION

EXAMPLE: PDX4 B 9LED WHT30K MVOLT SP FLC 12S TKO

Model*		Material*		LED Array*		LED Color*		Voltage*		Distribution*		
PDX4		SS	Stainless Steel	9LED		WHT53K	Cool White	120 ^{1,3} MVOLT ²		SP	Spot	
		BSS	Brushed Stainless Steel			WHT41K	Neutral White			MFL	Medium Flood	
		B	Bronze			WHT30K	Warm White					
						AMB	Amber					
						BLU	Blue					
						GRN	Green					
						RED	Red					
Lens*		Conduit Entries*				Internal Tilt Kit		Options		Listing		
FLC	Flat Lens Clear	12S	Two 1/2" NPT Side (Standard)				TKO	Tilt Kit Optic	IDIM	In-line dimming	IEC ⁴	International Electrotechnical Commission
FLCAS	Flat Lens Clear, Anti-Slip	12B	Two 1/2" NPT Bottom (will include side entries as well)							120 volt only		
FLCSR ³	Flat Lens Frosted, Slip Resistant	20S ⁴	Two M20X 1,5 Side (Standard with IEC)									
		20B ⁴	Two M20X 1,5 Bottom (will include side entries as well)									



*Required Categories

Notes:

- 120 Volt power supply is magnetic and dimmable using standard incandescent dimming controls when ordered with IDIM option.
- MVOLT = 120-277 electronic power supply, non-dimmable.
- Meets ADA requirements for coefficient of friction.
- Only for use in 50HZ applications.

NOTE: Hydrel Reserves The Right To Modify Specification Without Notice. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)



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09/03/15

PDX4_LED_LINEVOLTAGE

PERFORMANCE DATA

IP67

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

	Distribution	Nema Type	Beam Angle (50%) H x V	Field Angle (10%) H x V	Watts	LPW	Delivered Lumens
3000K 80CRI	SP	3 x 3	13.3 x 13.3	38.4 x 38.4	10	27	276
	MFL	3 x 3	21.9 x 21.9	42.1 x 42.1	10	31	332
4000K 68CRI	SP	3 x 3	13.3 x 13.3	38.4 x 38.4	10	46	459
	MFL	3 x 3	21.9 x 21.9	42.1 x 42.1	10	52	554
5000K 68CRI	SP	3 x 3	13.3 x 13.3	38.4 x 38.4	10	46	459
	MFL	3 x 3	21.9 x 21.9	42.1 x 42.1	10	52	554

OPERATING TEMPERATURE: -30°C Through 40°C

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the Fixture platform in a 25°C ambient, based on 8400 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

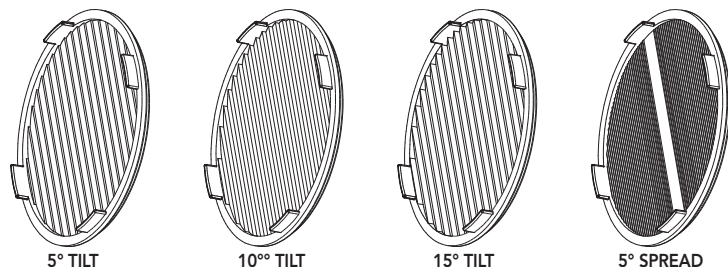
Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1	0.98	0.97	0.95

Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
9 LED	500mA	10	0.083	0.048	0.042	0.036	0.029

Slip Resistance and Load Rating

PDX4
MAXIMUM LOAD RATING Peak compression force of 2,048 lbs.
LENS STATIC COEFFICIENT OF FRICTION PDX4 Anti-Slip Lens (FLCAS): Dry = 0.78; Wet = 0.30 PDX4 Slip Resistant Lens (FLSR): Dry = 0.68; Wet = 0.59



TKO optic kit includes a 5°, 10° and 15° tilt filters and a 5° axial spread filter. TKO kits are standard on PDX4 LED fixtures and include a mounting ring.

FEATURES & SPECIFICATIONS

CONSTRUCTION: Door material - die cast bronze or stainless steel. Housing - die cast bronze and injection molded thermoplastic. The housing is U.V. stabilized, impact and corrosion resistant for use in all types of environments. Conduit entries - two 1/2" NPT side entries standard, two 1/2" bottom entries are optional.

SOURCE: LED: Monochromatic LED, 9W

VOLTAGE: MVOLT (120-277) or 120 for dimming

LIGHT DISTRIBUTION: SP (Spot) or MFL (Medium Flood)

LENS/SEAL: Tempered clear flat borosilicate glass. The patent pending door / lens seal uses proprietary knife edge technology to secure the assembly to the housing. Two captive screws hold the assembly in place. The lens is notched to provide maximum aperture opening.

FIXTURE AIMING: The Paradox™ Series uses optical aiming filters. The TKO kit consists of 4 filters: 5°, 10° and 15° tilt and 5° axial spread.

ELECTRICAL: Integrally mounted modular LED transformer, prewired for easy installation and maintenance. Junction box suitable for thru-branch wiring.

FINISH: Natural bronze or stainless steel with a brushed finish.

LISTING: IP67, CSA, CSA_{US}

RATED: IC, non-IC, ground mounted recessed.

WARRANTY: 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.



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09/03/15
PDX4_LED_LINEVOLTAGE



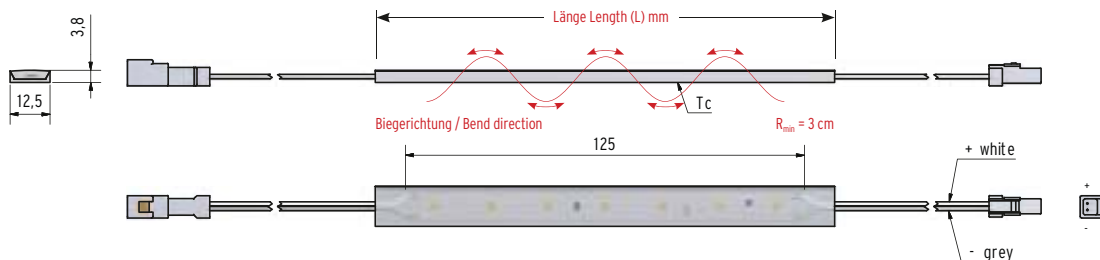
VarioLED™ Flex HYDRA LD White IP67



Wasser- und UV-geschützte flexible lineare LED Leuchte in bis zu 7,5 m Länge im Polyurethanverguss mit weißem Boden und mit 200 mm IP67 Mini Steckverbinder an beiden Enden.

Water & UV resistant flexible linear LED luminaire in up to 7,5 m length in polyurethane encapsulation with white casing and with 200 mm IP67 mini connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144 \text{ mm}$; $LD5 \pm L_{max} = 7.519 \text{ mm}$; $LD10 \pm L_{max} = 5.019 \text{ mm}$; $LD15 \pm L_{max} = 4.019 \text{ mm}$
($LD5 \pm N = 1... 60$, $LD10 \pm N = 1... 40$, $LD15 \pm N = 1... 32$)

Tc-Punkt: Gesamte Rückseite des vergossenen LED Bands
Tc-point: Entire encapsulated flexboard rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²			LD5	LD10	LD15
			lumen/meter (lm/m) ¹		
● W820	2500 K		340	680	1090
● W822	2900 K		390	780	1250
● W825	3300 K		450	890	1430
● W827	W927 3800 K	3600 K	400	950	1510
● W830	W930 4300 K	4300 K	400	1000	1600
● W835	W935 5100 K	4900 K	420	1050	1690
● W840	W940 6100 K	6600 K	430	1080	1720
● W850	9600 K		590	1180	1880

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.

Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED Flex HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED Flex HYDRA	LD5	W9	27	7519	IP67

Zubehör Accessories

erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. e. g. Art.-# 16000154	Buchse Female connector z. B. e. g. Art.-# 15000142
1-10V DIM Steuerprotokoll Power control system z. B. e. g. Art.-# 17000037	3M Klebeband 3M Adhesive tape Art.-# 18200035
Transparenter Montageclip Transparent mounting clip Art.-# 13000115	

Details siehe Seite 338 ff. Details on page 338 ff.



VarioLED™ HYDRA LD White IP67



VarioLED™ HYDRA LD5 IP67, Contour 013



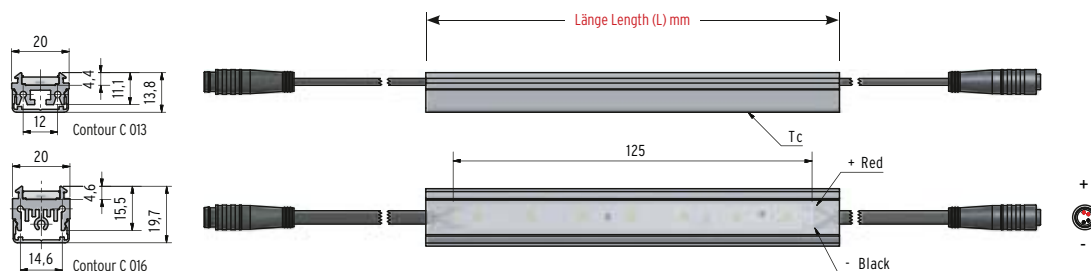
VarioLED™ HYDRA LD25 IP67, Contour 016



Wasser- und UV-geschützte lineare LED Leuchte im Aluminiumprofil mit bis zu 4 m Länge, Polyurethanverguss und 110 mm IP67 Steckverbinder an beiden Enden.

Water & UV resistant linear LED luminaire in aluminum profile with up to 4 m length, polyurethane encapsulation and 110 mm IP67 connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144$ mm; LD5/LD10/LD15 $\triangle L_{max} = 4.019$ mm; LD25 $\triangle L_{max} = 3.019$ mm
(LD5/LD10/LD15 $\triangle N = 1... 32$, LD25 $\triangle N = 1... 15$)

Tc-Punkt: Gesamte Profilrückseite
Tc-point: Entire Al-profile rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		LD5 in C 013	LD10 in C 013	LD15 in C 016	LD25 in C 016
		lumen/meter (lm/m) ¹			
● W820	2500 K	320	640	1030	1670
● W822	2900 K	370	730	1170	1910
● W825	3300 K	420	840	1340	2180
● W827	W927 3800 K	370	890	1420	2310
● W830	W930 4300 K	380	940	1510	2450
● W835	W935 5100 K	390	990	1590	2580
● W840	W940 6100 K	400	1010	1620	2630
● W850	9600 K	550	1110	1770	2880

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED HYDRA	LD5	W9	27	4019	IP67

Zubehör Accessories

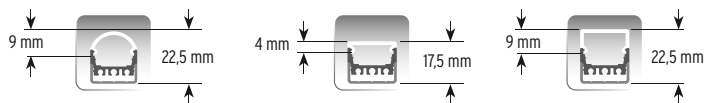
erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. z. B. e. g. Art.-# 16000154 Buchse Female connector z. B. z. B. e. g. Art.-# 15000091	1-10V Remote Steuerprotokoll Power control system z. B. z. B. e. g. Art.-# 17000037 Halteklammer Mounting Clip Art.-# 10000040 Montage-Profil Mounting Profile Art.-# 10000039

Details siehe Seite 338 ff. Details on page 338 ff.

Sicherheits- und Montagehinweise siehe Seite 410 ff. Safety and assembly information please see page 412 ff.

LED Linear™ GmbH

VarioContour 002



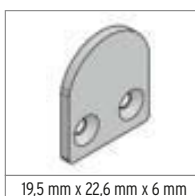
Bezeichnung Description	VarioContour 002 Base Profile
Artikelnummer Art.-No.	10000300
Einheit Unit	meter (m)
Min. VPE Min. OQ	30

Al Profil mit Haltenut für Abdeckungen (L x H x B) 2.000 mm x 11 mm x 19,5 mm
Aluminium profile with groove for various covers (L x H x W) 2,000 mm x 11 mm x 19,5 mm



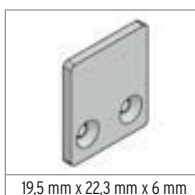
Bezeichnung Description	VarioContour 002/004/005 Mounting Profile
Artikelnummer Art.-No.	10000039
Einheit Unit	meter (m)
Min. VPE Min. OQ	30

Al Montageprofil für VarioContour 002/004/005/013/016 (L x H x B) 2.000 mm x 8 mm x 19,5 mm
Aluminium mounting profile for VarioContour 002/004/005/013/016 (L x H x W) 2,000 mm x 8 mm x 19,5 mm



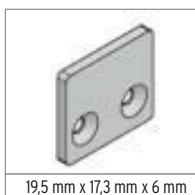
Bezeichnung Description	VarioCap 002 clear R (Set of 2)
Artikelnummer Art.-No.	11000112
Einheit Unit	Set/set (pu)
Min. VPE Min. OQ	10

Endkappen für VarioContour 002 inkl. Befestigungsschrauben
End Caps for VarioContour 002 incl. fixing screws



Bezeichnung Description	VarioCap 002 clear H² (Set of 2)
Artikelnummer Art.-No.	11000113
Einheit Unit	Set/set (pu)
Min. VPE Min. OQ	10

Endkappen für VarioContour 002 inkl. Befestigungsschrauben
End Caps for VarioContour 002 incl. fixing screws



Bezeichnung Description	VarioCap 002 clear L² (Set of 2)
Artikelnummer Art.-No.	11000114
Einheit Unit	Set/set (pu)
Min. VPE Min. OQ	10

Endkappen für VarioContour 002 inkl. Befestigungsschrauben
End Caps for VarioContour 002 incl. fixing screws



Bezeichnung Description	VarioClip 002/004/005 90 mm
Artikelnummer Art.-No.	10000040
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Al Halteklammer für VarioContour 002/004/005/013/016 (L x H x B) 90 mm x 8 mm x 19,5 mm
Aluminium mounting clip for VarioContour 002/004/005/013/016 (L x H x W) 90 mm x 8 mm x 19,5 mm

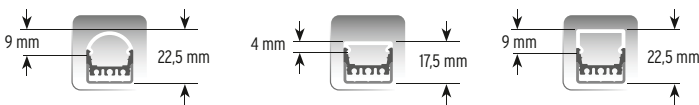


Bezeichnung Description	VarioClip 002/004/005 Plastic*
Artikelnummer Art.-No.	13000032
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Halteklammer aus Kunststoff für VarioContour 002/004/005 (L x H x B) 8 mm x 19,4 mm x 29,7 mm
Plastic mounting clip for VarioContour 002/004/005 (L x H x W) 8 mm x 19,4 mm x 29,7 mm

360

VarioContour 002



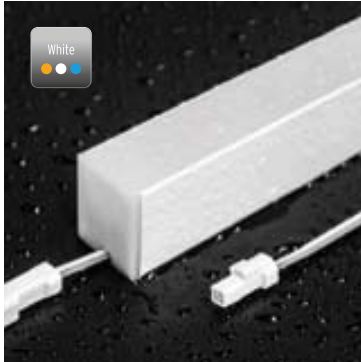
Bezeichnung	Description	Adjustable Mounting Bracket 002/004 (Set of 2)
Artikelnummer	Art.-No.	13000082
Einheit	Unit	Set/set (pu)
Min. VPE	Min. OQ	10
Montagebügel (frei justierbar) für VarioContour 002/004		
Adjustable mounting bracket for VarioContour 002/004		

Bezeichnung	Description	VarioContour 011 Silver
Artikelnummer	Art.-No.	10000500
Einheit	Unit	meter (m)
Min. VPE	Min. OQ	30
Al Montageprofil 30° oder 60° für VarioContour 002 (L x H x B) 4.000 mm x 29 mm x 26,5 mm		
Aluminum mounting profile for 30° or 60° orientation for VarioContour 002 (L x H x W) 4,000 mm x 29 mm x 26,5 mm		

* Keine Verwendung in Verbindung mit Montageprofil * No use in connection with mounting profile



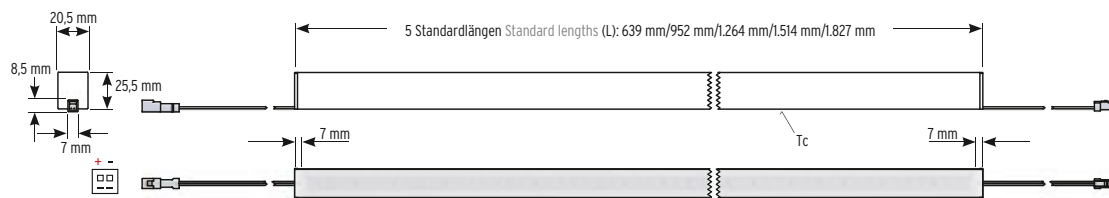
ADONIS HYDRA White IP67



24 V, lichtstarke, IP67 geschützte und IK10 zertifizierte, lineare LED-Leuchte mit kleinem Formfaktor und opalem Verguss mit homogenem Lichtaustritt. „One Bin Only“ innerhalb 3 MacAdam garantiert konstante Farbtemperatur und höchste Lichtqualität bei einer Lebensdauer von > 60.000 h (L80/B10). Sie ist IP67 geschützt gegen Wasser, Salzwasser, Lösungsmittel und UV-Strahlung durch einen opalen Polyurethanverguss. Weiterhin ist sie IK10 zertifiziert und daher besonders robust gegen äußere Krafteinwirkung. Sie ist in 5 Standardlängen erhältlich und wird steckerfertig mit einem IP67 Mini-Stecker geliefert. Made in Germany.

24 V, light intensive, IP67 protected and IK10 certified, linear LED luminaire with small form factor and opal encapsulation with a homogeneous light emission. „One Bin Only“ within 3 MacAdam guarantees constant color temperature and high light quality with a lifetime of > 60,000 hrs (L80/B10). It is IP67 protected against water, salt water, solvents and UV radiation by an opal polyurethane encapsulation. Furthermore, it is IK10 certified and therefore particularly robust against environmental impacts. It is available in 5 standard lengths and is supplied ready to plug in with a IP67 mini-connector. Made in Germany.

Abmessungen & verfügbare Längen Dimensions & available lengths



Opal vergossene LED Lichtlinie
Opal encapsulated LED light line

Oberfläche: Weiße Pulverbeschichtung
Finish: White powder coated

Tc-Punkt (Gehäuse Temp.) auf der Rückseite des Moduls
Tc-point (Case temp.) on the rear side of the module

Kabellänge ca. 180 mm
Cable length approx. 180 mm

Elektrische & Optische Betriebsdaten Electrical & output data

Spannung Voltage	24 Volt (23 V _{min} , 25 V _{max})
Temperatur Temperature ²	T _{cmin} = -25°C, T _{cmax} (untere Tabelle Table below)
Lagertemperatur Storage temperature	T _{smin} = -30°C, T _{smax} = 85°C
Außentemperatur Ambient temperature	T _{amin} = -25°C, T _{amax} = 40°C
Ra CRI	bis zu up to 85
R9	bis zu up to 25

ADONIS HYDRA	HD6	HD10	HD15	HD25
Leistung Power (W/m) ¹	6	10	15	25
Effizienz Efficacy (lm/W) ¹	62	62	67	65
max. serielle Lauflänge bei einer Einspeisung max. serial run length (mm)	5000	5000	4000	3000
Temp. Tc-Punkt Temp. Tc-point (T _{cmax}) ²	70°C	70°C	70°C	75°C

Farbtemperatur Color temperature ³		HYDRA HD6	HYDRA HD10	HYDRA HD15	HYDRA HD25
		lumen/meter (lm/m) ¹			
● W820	2400 K	220	360	580	940
● W822	2700 K	250	410	660	1070
● W825	3000 K	280	470	750	1230
● W827	3500 K	250	420	800	1300
● W830	3900 K	260	430	850	1380
● W835	4600 K	260	440	890	1450
● W840	5500 K	270	450	910	1480
● W850	7200 K	370	620	1000	1620

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

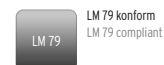
² Der Tc-Punkt sollte im thermisch eingewungenen Zustand gemäß EN 60598-1 gemessen werden.

³ Bei IP67 Produkten können Abweichungen bei den Farbtemperaturen auftreten. Weitere Erläuterungen finden Sie auf Seite 476.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

³ In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.



Bestellnummer Order code

Ihre Bestellnummer Your order code	ADONIS HYDRA	HD__	W__	__	__	IP67
Bestellnummer Beispiel Order code example	ADONIS HYDRA	HD10	W9	27	1514	IP67

LED tape

HYDRA HD6	HD6
HYDRA HD10	HD10
HYDRA HD15	HD15
HYDRA HD25	HD25

Color rendering

> 80	8
> 90 (only HD6, HD10)	9

Color temperature

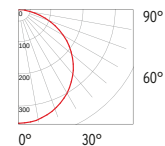
2400 K	20
2700 K	22
3000 K	25
3500 K 3400 K	27
3900 K 3800 K	30
4600 K 4400 K	35
5500 K 5600 K	40
7200 K	50

Length

639 mm (2 clips recommended)	0639
952 mm (2 clips recommended)	0952
1.264 mm (3 clips recommended)	1264
1.514 mm (3 clips recommended)	1514
1.827 mm (4 clips recommended)	1827

Ingress protection

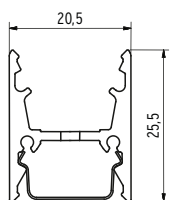
IP67	IP67
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DIN 5040:A40
cd/1.000 lumen
C0/C180
C90/C270

Bitte wählen Sie Ihr Zubehör aus Please choose your accessories

Montage Mounting	Art.-#
☐ Mounting clip for VarioContour 010 (required every 40 cm)	13000104
☐ Contour 010 Adjustable Wall Mount Set	13000165
☐ Mounting Lock ⁴	13000192



Einfache und saubere Montage durch innenliegenden Montageclip. Zudem dient das H-Profil der ADONIS/KALYPSO auch als Kabelkanal. Daher sind keine Clips oder Kabel von außen sichtbar.

Easy and clean installation due to internal mounting clips. ADONIS / KALYPSO H-channel also acts as cable raceway. Therefore you do not see any clips or cables from the outside.

Verlängerungskabel Extensions / Jumpers (optional)	Art.-#
☐ VarioCon Female Mini 2 x 0,34 mm ² , 2 m IP67	15000142
☐ VarioCon Extension Mini 2 x 0,34 mm ² , 0,1 m IP67	15000143
☐ VarioCon Female Mini Protection Cap Mono IP67 ⁵	15000218

Empfohlene Vorschaltgeräte Recommended drivers	Art.-#
☐ VarioPSU 24 V/90 W IP67, 1 - 10 V Black, 90 - 305 V supply	16000154

Empfohlene Steuerungen Recommended controls	Art.-#
☐ VarioControl LinearDrive 210D DALI	17000037

⁴Der Nutenstein dient zur Fixierung der verschiebbaren Montage Clips und ermöglicht dadurch einen vertikalen Wandanbau.

⁵Erforderlich für die IP67 Steckerabdichtung am Ende der Leuchte/Leuchtenreihe.

⁴The mounting lock is used to fix the sliding mounting clips, thus allowing a vertical wall mounting.

⁵Required for IP67 connector sealing at end of runs.



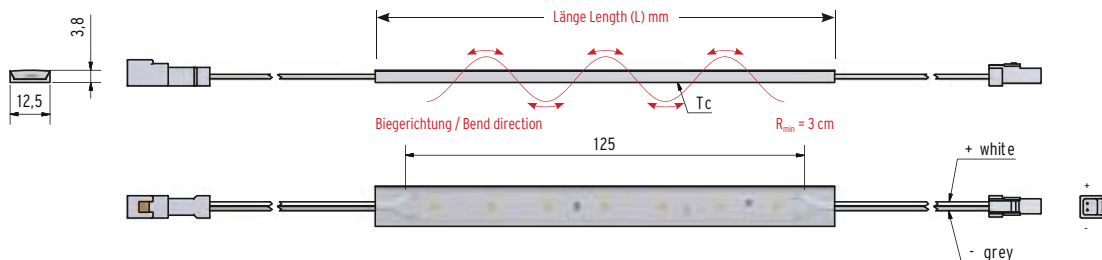
VarioLED™ Flex HYDRA LD White IP67



Wasser- und UV-geschützte flexible lineare LED Leuchte in bis zu 7,5 m Länge im Polyurethanverguss mit weißem Boden und mit 200 mm IP67 Mini Steckverbinder an beiden Enden.

Water & UV resistant flexible linear LED luminaire in up to 7,5 m length in polyurethane encapsulation with white casing and with 200 mm IP67 mini connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144 \text{ mm}$; $LD5 \pm L_{max} = 7.519 \text{ mm}$; $LD10 \pm L_{max} = 5.019 \text{ mm}$; $LD15 \pm L_{max} = 4.019 \text{ mm}$
($LD5 \pm N = 1... 60$, $LD10 \pm N = 1... 40$, $LD15 \pm N = 1... 32$)

Tc-Punkt: Gesamte Rückseite des vergossenen LED Bands
Tc-point: Entire encapsulated flexboard rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		lumen/meter (lm/m) ¹		
		LD5	LD10	LD15
● W820	2500 K	340	680	1090
● W822	2900 K	390	780	1250
● W825	3300 K	450	890	1430
● W827	W927 3800 K 3600 K	400	950	1510
● W830	W930 4300 K 4300 K	400	1000	1600
● W835	W935 5100 K 4900 K	420	1050	1690
● W840	W940 6100 K 6600 K	430	1080	1720
● W850	9600 K	590	1180	1880

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED Flex HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED Flex HYDRA	LD5	W9	27	7519	IP67

Zubehör Accessories

erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. e. g. Art.-# 16000154	Steuerprotokoll Power control system z. B. e. g. Art.-# 17000037
Buchse Female connector z. B. e. g. Art.-# 15000142	3M Klebeband 3M Adhesive tape Art.-# 18200035
	Transparenter Montageclip Transparent mounting clip Art.-# 13000115

Details siehe Seite 338 ff. Details on page 338 ff.



VarioLED™ HYDRA LD White IP67



VarioLED™ HYDRA LD5 IP67, Contour 013



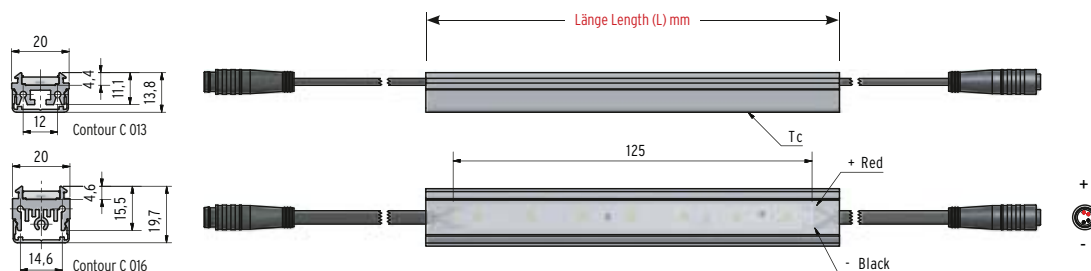
VarioLED™ HYDRA LD25 IP67, Contour 016



Wasser- und UV-geschützte lineare LED Leuchte im Aluminiumprofil mit bis zu 4 m Länge, Polyurethanverguss und 110 mm IP67 Steckverbinder an beiden Enden.

Water & UV resistant linear LED luminaire in aluminum profile with up to 4 m length, polyurethane encapsulation and 110 mm IP67 connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144$ mm; LD5/LD10/LD15 $\triangle L_{max} = 4.019$ mm; LD25 $\triangle L_{max} = 3.019$ mm
LD5/LD10/LD15 $\triangle N = 1... 32$, LD25 $\triangle N = 1... 15$

Tc-Punkt: Gesamte Profilrückseite
Tc-point: Entire Al-profile rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		LD5 in C 013	LD10 in C 013	LD15 in C 016	LD25 in C 016
		lumen/meter (lm/m) ¹			
● W820	2500 K	320	640	1030	1670
● W822	2900 K	370	730	1170	1910
● W825	3300 K	420	840	1340	2180
● W827	W927 3800 K	370	890	1420	2310
● W830	W930 4300 K	380	940	1510	2450
● W835	W935 5100 K	390	990	1590	2580
● W840	W940 6100 K	400	1010	1620	2630
● W850	9600 K	550	1110	1770	2880

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED HYDRA	LD5	W9	27	4019	IP67

Zubehör Accessories

erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. z. B. e. g. Art.-# 16000154 Buchse Female connector z. B. z. B. e. g. Art.-# 15000091	1-10V Remote Steuerprotokoll Power control system z. B. z. B. e. g. Art.-# 17000037 Halteklammer Mounting Clip Art.-# 10000040 Montage-Profil Mounting Profile Art.-# 10000039

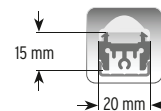
Details siehe Seite 338 ff. Details on page 338 ff.

Sicherheits- und Montagehinweise siehe Seite 410 ff. Safety and assembly information please see page 412 ff.

LED Linear™ GmbH

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VarioContour 016



NEW



15 mm x 20 mm

Bezeichnung Description	VarioContour 016 Silver
Artikelnummer Art.-No.	10000513
Einheit Unit	meter (m)
Min. VPE Min. OQ	30 m

Silber eloxiertes Aluminiumprofil (15 mm x 20 mm x 4.000 mm), ersetzt das alte Profil VarioContour 006
Silver anodized aluminium profile (15 mm x 20 mm x 4,000 mm), replaces the old VarioContour 006

NEW



26,4 mm x 20 mm

Bezeichnung Description	VarioCap 016
Artikelnummer Art.-No.	11000168
Einheit Unit	Set/set (pu) (VarioCap and 2 screws)
Min. VPE Min. OQ	10

Endkappe aus Aluminium für Contour 016 mit runder Abdeckung oder Linearlinse, im Set sind 2 Schrauben zur Befestigung enthalten
Aluminium end cap for Contour 016 with round cover or linear lens, set contains 2 screws for fixing the end cap

NEW



26,4 mm x 20 mm

Bezeichnung Description	VarioCap 016 with cable release
Artikelnummer Art.-No.	11000170
Einheit Unit	Set/set (pu) (VarioCap and 2 screws)
Min. VPE Min. OQ	10

Endkappe mit Kabelführung aus Aluminium für Contour 016 mit runder Abdeckung oder Linearlinse, im Set sind 2 Schrauben zur Befestigung enthalten
Aluminium end cap with cable release for Contour 016 with round cover or linear lens, set contains 2 screws for fixing the end cap



8 mm x 19,5 mm

Bezeichnung Description	VarioContour 002/004/005 Mounting Profile
Artikelnummer Art.-No.	10000039
Einheit Unit	meter (m)
Min. VPE Min. OQ	30

Al Montageprofil für VarioContour 002/004/005/013/016 (L x H x B) 2.000 mm x 8 mm x 19,5 mm
Aluminium mounting profile for VarioContour 002/004/005/013/016 (L x H x W) 2,000 mm x 8 mm x 19,5 mm



90 mm x 8 mm x 19,5 mm

Bezeichnung Description	VarioClip 002/004/005 90 mm
Artikelnummer Art.-No.	10000040
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Al Halteklammer für VarioContour 002/004/005/013/016 (L x H x B) 90 mm x 8 mm x 19,5 mm
Aluminium mounting clip for VarioContour 002/004/005/013/016 (L x H x W) 90 mm x 8 mm x 19,5 mm



8 mm x 19,4 mm x 29,7 mm

Bezeichnung Description	VarioClip 002/004/005 Plastic*
Artikelnummer Art.-No.	13000032
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Halteklammer aus Kunststoff für VarioContour 002/004/005/013/016 (L x H x B) 8 mm x 19,4 mm x 29,7 mm
Plastic mounting clip for VarioContour 002/004/005/013/016 (L x H x W) 8 mm x 19,4 mm x 29,7 mm

* Keine Verwendung in Verbindung mit Montageprofil
* No use in connection with mounting profile



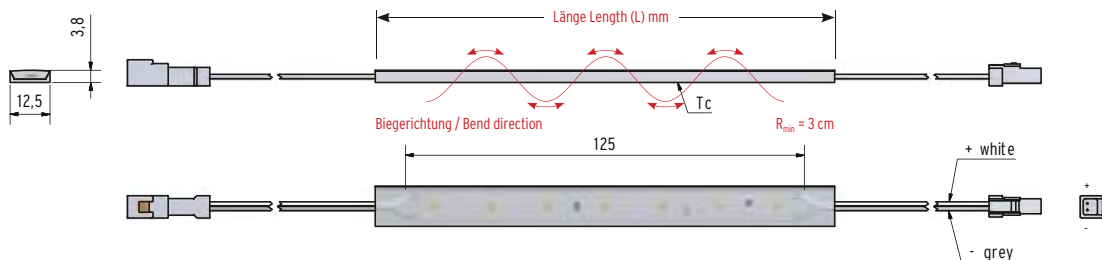
VarioLED™ Flex HYDRA LD White IP67



Wasser- und UV-geschützte flexible lineare LED Leuchte in bis zu 7,5 m Länge im Polyurethanverguss mit weißem Boden und mit 200 mm IP67 Mini Steckverbinder an beiden Enden.

Water & UV resistant flexible linear LED luminaire in up to 7,5 m length in polyurethane encapsulation with white casing and with 200 mm IP67 mini connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144 \text{ mm}$; $LD5 \triangle L_{max} = 7.519 \text{ mm}$; $LD10 \triangle L_{max} = 5.019 \text{ mm}$; $LD15 \triangle L_{max} = 4.019 \text{ mm}$
($LD5 \triangle N = 1... 60$, $LD10 \triangle N = 1... 40$, $LD15 \triangle N = 1... 32$)

Tc-Punkt: Gesamte Rückseite des vergossenen LED Bands
Tc-point: Entire encapsulated flexboard rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		lumen/meter (lm/m) ¹		
		LD5	LD10	LD15
● W820	2500 K	340	680	1090
● W822	2900 K	390	780	1250
● W825	3300 K	450	890	1430
● W827	W927 3800 K 3600 K	400	950	1510
● W830	W930 4300 K 4300 K	400	1000	1600
● W835	W935 5100 K 4900 K	420	1050	1690
● W840	W940 6100 K 6600 K	430	1080	1720
● W850	9600 K	590	1180	1880

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED Flex HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED Flex HYDRA	LD5	W9	27	7519	IP67

Zubehör Accessories

erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. e. g. Art.-# 16000154	Steuerprotokoll Power control system z. B. e. g. Art.-# 17000037
Buchse Female connector z. B. e. g. Art.-# 15000142	3M Klebeband 3M Adhesive tape Art.-# 18200035
	Transparenter Montageclip Transparent mounting clip Art.-# 13000115

Details siehe Seite 338 ff. Details on page 338 ff.



VarioLED™ HYDRA LD White IP67



VarioLED™ HYDRA LD5 IP67, Contour 013



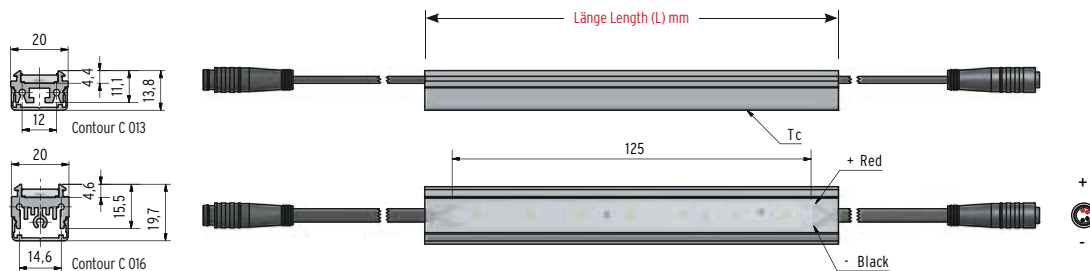
VarioLED™ HYDRA LD25 IP67, Contour 016



Wasser- und UV-geschützte lineare LED Leuchte im Aluminiumprofil mit bis zu 4 m Länge, Polyurethanverguss und 110 mm IP67 Steckverbinder an beiden Enden.

Water & UV resistant linear LED luminaire in aluminum profile with up to 4 m length, polyurethane encapsulation and 110 mm IP67 connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144$ mm; LD5/LD10/LD15 $\triangle L_{max} = 4.019$ mm; LD25 $\triangle L_{max} = 3.019$ mm
(LD5/LD10/LD15 $\triangle N = 1... 32$, LD25 $\triangle N = 1... 15$)

Tc-Punkt: Gesamte Profilrückseite
Tc-point: Entire Al-profile rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		LD5 in C 013	LD10 in C 013	LD15 in C 016	LD25 in C 016
		lumen/meter (lm/m) ¹			
● W820	2500 K	320	640	1030	1670
● W822	2900 K	370	730	1170	1910
● W825	3300 K	420	840	1340	2180
● W827	W927 3800 K	370	890	1420	2310
● W830	W930 4300 K	380	940	1510	2450
● W835	W935 5100 K	390	990	1590	2580
● W840	W940 6100 K	400	1010	1620	2630
● W850	9600 K	550	1110	1770	2880

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED HYDRA	LD5	W9	27	4019	IP67

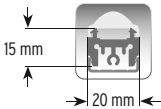
Zubehör Accessories

erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. z. B. Art.-# 16000154 Buchse Female connector z. B. z. B. Art.-# 15000091	1-10V Remote Steuerprotokoll Power control system z. B. z. B. Art.-# 17000037 Halteklammer Mounting Clip Art.-# 10000040 Montage-Profil Mounting Profile Art.-# 10000039

Details siehe Seite 338 ff. Details on page 338 ff.

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VarioContour 016



NEW



15 mm x 20 mm

Bezeichnung Description	VarioContour 016 Silver
Artikelnummer Art.-No.	10000513
Einheit Unit	meter (m)
Min. VPE Min. OQ	30 m

Silber eloxiertes Aluminiumprofil (15 mm x 20 mm x 4.000 mm), ersetzt das alte Profil VarioContour 006
Silver anodized aluminium profile (15 mm x 20 mm x 4,000 mm), replaces the old VarioContour 006

NEW



26,4 mm x 20 mm

Bezeichnung Description	VarioCap 016
Artikelnummer Art.-No.	11000168
Einheit Unit	Set/set (pu) (VarioCap and 2 screws)
Min. VPE Min. OQ	10

Endkappe aus Aluminium für Contour 016 mit runder Abdeckung oder Linearlinse, im Set sind 2 Schrauben zur Befestigung enthalten
Aluminium end cap for Contour 016 with round cover or linear lens, set contains 2 screws for fixing the end cap

NEW



26,4 mm x 20 mm

Bezeichnung Description	VarioCap 016 with cable release
Artikelnummer Art.-No.	11000170
Einheit Unit	Set/set (pu) (VarioCap and 2 screws)
Min. VPE Min. OQ	10

Endkappe mit Kabelführung aus Aluminium für Contour 016 mit runder Abdeckung oder Linearlinse, im Set sind 2 Schrauben zur Befestigung enthalten
Aluminium end cap with cable release for Contour 016 with round cover or linear lens, set contains 2 screws for fixing the end cap



8 mm x 19,5 mm

Bezeichnung Description	VarioContour 002/004/005 Mounting Profile
Artikelnummer Art.-No.	10000039
Einheit Unit	meter (m)
Min. VPE Min. OQ	30

Al Montageprofil für VarioContour 002/004/005/013/016 (L x H x B) 2.000 mm x 8 mm x 19,5 mm
Aluminium mounting profile for VarioContour 002/004/005/013/016 (L x H x W) 2,000 mm x 8 mm x 19.5 mm



90 mm x 8 mm x 19,5 mm

Bezeichnung Description	VarioClip 002/004/005 90 mm
Artikelnummer Art.-No.	10000040
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Al Halteklammer für VarioContour 002/004/005/013/016 (L x H x B) 90 mm x 8 mm x 19,5 mm
Aluminium mounting clip for VarioContour 002/004/005/013/016 (L x H x W) 90 mm x 8 mm x 19.5 mm



8 mm x 19,4 mm x 29,7 mm

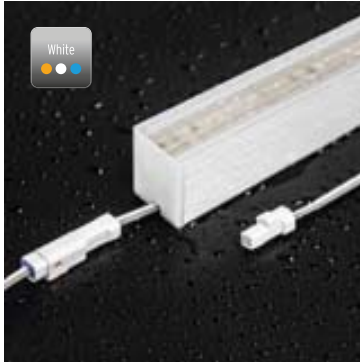
Bezeichnung Description	VarioClip 002/004/005 Plastic*
Artikelnummer Art.-No.	13000032
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Halteklammer aus Kunststoff für VarioContour 002/004/005/013/016 (L x H x B) 8 mm x 19,4 mm x 29,7 mm
Plastic mounting clip for VarioContour 002/004/005/013/016 (L x H x W) 8 mm x 19.4 mm x 29.7 mm

* Keine Verwendung in Verbindung mit Montageprofil
* No use in connection with mounting profile



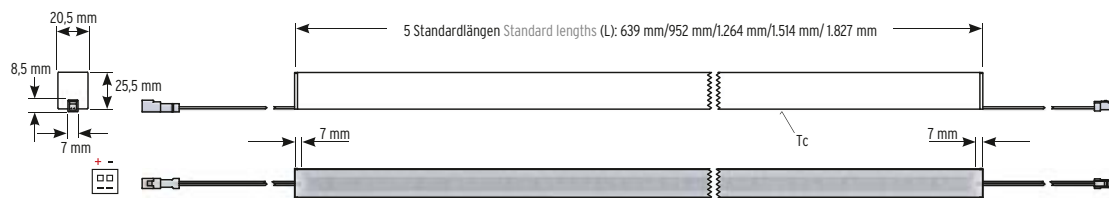
KALYPSO HYDRA White IP67



24 V, lichtstarke, IP67 geschützte und IK10 geprüfte, lineare LED-Leuchte mit kleinem Formfaktor und präzisen Linearoptiken für optimale Lichtlenkung. Sie ist IP67 geschützt gegen Wasser, Salzwasser, Lösungsmittel und UV-Strahlung durch einen klaren Polyurethanvergiess. Das Profil mit kleinem Querschnitt und wahlweise 10° Streiflicht, 30° oder 60° allgemeine Beleuchtungsoptik, garantiert eine gezielte Ausleuchtung der Beleuchtungsaufgabe. Sie ist in 5 Standardlängen erhältlich und wird steckerfertig mit einem IP67 Mini-Stecker geliefert. Die Montage wird mit unsichtbaren Lichtfugen und Anschlüssen realisiert. Lebensdauer von > 60.000 h (L80/B10). Made in Germany.

24 V, light intensive, IP67 protected and IK10 certified, linear LED luminaire with small form factor and precise linear optics for optimum directional light. It is IP67 protected against water, salt water, solvents and UV radiation by a clear polyurethane encapsulation. The profile of small cross section and either 10° wall grazing, 30° or 60° general illumination optics, guarantees a perfect and targeted illumination of the specific lighting task. It is available in 5 standard lengths and supplied ready to plug in with a IP67 mini-connector. The mounting is realized with invisible light joints and connections. Lifetime of > 60,000 hrs (L80/B10). Made in Germany.

Abmessungen & verfügbare Längen Dimensions & available lengths



Klar vergossene LED Lichtlinie mit Linsen
Clear encapsulated LED light line with lenses

Tc-Punkt (Gehäuse Temp.) auf der Rückseite des Moduls
Tc-point (Case temp.) on the rear side of the module

Oberfläche: Weiße Pulverbeschichtung
Finish: White powder coated

Kabellänge ca. 180 mm
Cable length approx. 180 mm

Elektrische & Optische Betriebsdaten Electrical & output data

Spannung Voltage	24 Volt (23 V _{min} , 25 V _{max})
Temperatur Temperature ²	T _{cmin} = -25°C, T _{cmax} (untere Tabelle Table below)
Lagertemperatur Storage temperature	T _{smin} = -30°C, T _{smax} = 85°C
Außentemperatur Ambient temperature	T _{amin} = -25°C, T _{amax} (untere Tabelle Table below)
Ra CRI	bis zu up to 95
R9	bis zu up to 65

KALYPSO HYDRA	HD6	HD10	HD15	HD25	HD36
Leistung Power (W/m) ¹	6	10	15	25	36
Effizienz Efficacy (lm/W) ¹	93	94	101	98	99
max. serielle Lauflänge bei einer Einspeisung max. serial run length (mm)	5000	5000	4000	3000	2000
Temp. Tc-Punkt Temp. Tc-point (T _{cmax}) ²	70°C	70°C	70°C	75°C	85°C
max. Außentemp. max. Ambient temp. (T _{amax})	40°C	40°C	40°C	40°C	35°C

Farbtemperatur Color temperature ³		HYDRA HD6	HYDRA HD10	HYDRA HD15	HYDRA HD25	HYDRA HD36
		lumen/meter (lm/m) ¹				
● W820	2000 K	330	550	870	1420	2070
● W822	2200 K	370	620	1000	1620	2370
● W825	2500 K	430	710	1140	1850	2710
● W827 W927	2700 K	380	640	1210	1970	2870
● W830 W930	3000 K	390	650	1280	2090	3050
● W835 W935	3500 K	400	670	1350	2190	3200
● W840 W940	4000 K	410	680	1380	2240	3270
● W850	5000 K	560	940	1510	2450	3580

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

² Der Tc-Punkt sollte im thermisch eingeschwungenen Zustand gemäß EN 60598-1 gemessen werden.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.



Bestellnummer Order code

Ihre Bestellnummer Your order code	KALYPSO HYDRA	HD__	W__	__	__	__	IP67
Bestellnummer Beispiel Order code example	KALYPSO HYDRA	HD10	W9	27	1514	30	IP67

LED tape

HYDRA HD6	HD6
HYDRA HD10	HD10
HYDRA HD15	HD15
HYDRA HD25	HD25
HYDRA HD36	HD36

Color rendering

> 80	8
> 90 (only HD6, HD10)	9

Color temperature

2000 K	20
2200 K	22
2500 K	25
2700 K	27
3000 K	30
3500 K	35
4000 K	40
5000 K	50

Length

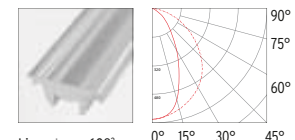
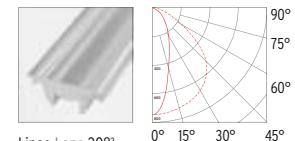
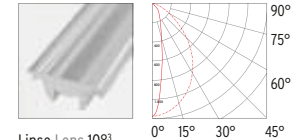
639 mm (2 clips recommended)	0639
952 mm (2 clips recommended)	0952
1.264 mm (3 clips recommended)	1264
1.514 mm (3 clips recommended)	1514
1.827 mm (4 clips recommended)	1827

Lens options (DIN 5040:A50)

10°	10
30°	30
60°	60

Ingress protection

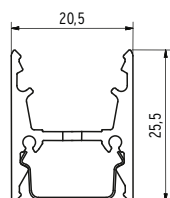
IP67	IP67
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³ DIN 5040:A50
cd/1000 lumen
C0/C180
C90/C270

Bitte wählen Sie Ihr Zubehör aus Please choose your accessories

Montage Mounting	Art.-#
☐ Mounting clip for VarioContour 010 (required every 40 cm)	13000104
☐ Contour 010 Adjustable Wall Mount Set	13000165
☐ Mounting Lock ⁴	13000192



Verlängerungskabel Extensions / Jumpers (optional)	Art.-#
☐ VarioCon Female Mini 2 x 0,34 mm ² , 2 m IP67	15000142
☐ VarioCon Extension Mini 2 x 0,34 mm ² , 0,1 m IP67	15000143
☐ VarioCon Female Mini Protection Cap Mono IP67 ⁵	15000218

Empfohlene Vorschaltgeräte Recommended drivers	Art.-#
☐ VarioPSU 24 V/90 W IP67, 1 - 10 V Black, 90 - 305 V supply	16000154

Empfohlene Steuerungen Recommended controls	Art.-#
☐ VarioControl LinearDrive 210D DALI	17000037

Einfache und saubere Montage durch innenliegenden Montageclip. Zudem dient das H-Profil der ADONIS/KALYPSO auch als Kabelkanal. Daher sind keine Clips oder Kabel von außen sichtbar.

Easy and clean installation due to internal mounting clips. ADONIS / KALYPSO H-channel also acts as cable raceway. Therefore you do not see any clips or cables from the outside.

⁴Der Nutenstein dient zur Fixierung der verschiebbaren Montage Clips und ermöglicht dadurch einen vertikalen Wandanbau.

⁵Erforderlich für die IP67 Steckerabdichtung am Ende der Leuchte/Leuchtenreihe.

⁴The mounting lock is used to fix the sliding mounting clips, thus allowing a vertical wall mounting.

⁵Required for IP67 connector sealing at end of runs.



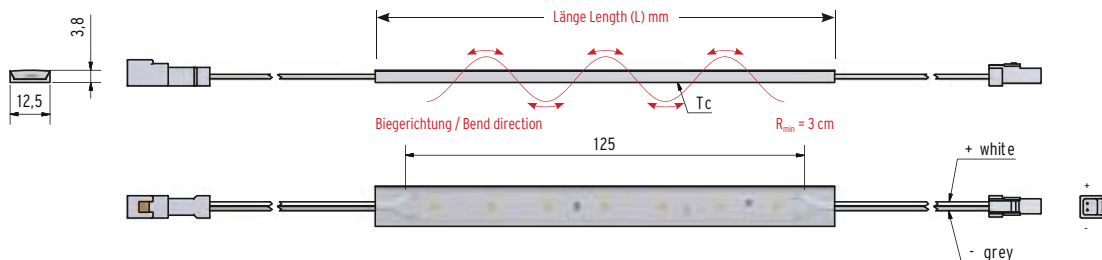
VarioLED™ Flex HYDRA LD White IP67



Wasser- und UV-geschützte flexible lineare LED Leuchte in bis zu 7,5 m Länge im Polyurethanverguss mit weißem Boden und mit 200 mm IP67 Mini Steckverbinder an beiden Enden.

Water & UV resistant flexible linear LED luminaire in up to 7,5 m length in polyurethane encapsulation with white casing and with 200 mm IP67 mini connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144 \text{ mm}$; $LD5 \triangle L_{max} = 7.519 \text{ mm}$; $LD10 \triangle L_{max} = 5.019 \text{ mm}$; $LD15 \triangle L_{max} = 4.019 \text{ mm}$
($LD5 \triangle N = 1... 60$, $LD10 \triangle N = 1... 40$, $LD15 \triangle N = 1... 32$)

Tc-Punkt: Gesamte Rückseite des vergossenen LED Bands
Tc-point: Entire encapsulated flexboard rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		LD5			LD10			LD15		
		lumen/meter (lm/m) ¹								
● W820	2500 K	340	680	1090						
● W822	2900 K	390	780	1250						
● W825	3300 K	450	890	1430						
● W827	W927 3800 K 3600 K	400	950	1510						
● W830	W930 4300 K 4300 K	400	1000	1600						
● W835	W935 5100 K 4900 K	420	1050	1690						
● W840	W940 6100 K 6600 K	430	1080	1720						
● W850	9600 K	590	1180	1880						

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED Flex HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED Flex HYDRA	LD5	W9	27	7519	IP67

Zubehör Accessories

erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. e. g. Art.-# 16000154	Steuerprotokoll Power control system z. B. e. g. Art.-# 17000037
Buchse Female connector z. B. e. g. Art.-# 15000142	3M Klebeband 3M Adhesive tape Art.-# 18200035
	Transparenter Montageclip Transparent mounting clip Art.-# 13000115

Details siehe Seite 338 ff. Details on page 338 ff.



VarioLED™ HYDRA LD White IP67



VarioLED™ HYDRA LD5 IP67, Contour 013



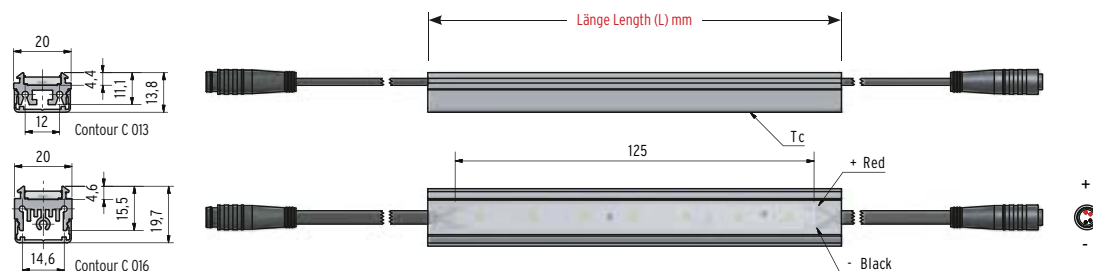
VarioLED™ HYDRA LD25 IP67, Contour 016



Wasser- und UV-geschützte lineare LED Leuchte im Aluminiumprofil mit bis zu 4 m Länge, Polyurethanverguss und 110 mm IP67 Steckverbinder an beiden Enden.

Water & UV resistant linear LED luminaire in aluminum profile with up to 4 m length, polyurethane encapsulation and 110 mm IP67 connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144$ mm; LD5/LD10/LD15 $\triangle L_{max} = 4.019$ mm; LD25 $\triangle L_{max} = 3.019$ mm
(LD5/LD10/LD15 $\triangle N = 1... 32$, LD25 $\triangle N = 1... 15$)

Tc-Punkt: Gesamte Profilrückseite
Tc-point: Entire Al-profile rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		LD5 in C 013	LD10 in C 013	LD15 in C 016	LD25 in C 016
		lumen/meter (lm/m) ¹			
● W820	2500 K	320	640	1030	1670
● W822	2900 K	370	730	1170	1910
● W825	3300 K	420	840	1340	2180
● W827	W927 3800 K	370	890	1420	2310
● W830	W930 4300 K	380	940	1510	2450
● W835	W935 5100 K	390	990	1590	2580
● W840	W940 6100 K	400	1010	1620	2630
● W850	9600 K	550	1110	1770	2880

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED HYDRA	LD5	W9	27	4019	IP67

Zubehör Accessories

erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. z. B. e. g. Art.-# 16000154 Buchse Female connector z. B. z. B. e. g. Art.-# 15000091	1-10V Remote Steuerprotokoll Power control system z. B. z. B. e. g. Art.-# 17000037 Halteklammer Mounting Clip Art.-# 10000040 Montage-Profil Mounting Profile Art.-# 10000039

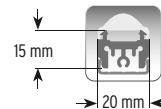
Details siehe Seite 338 ff. Details on page 338 ff.

Sicherheits- und Montagehinweise siehe Seite 410 ff. Safety and assembly information please see page 412 ff.

LED Linear™ GmbH

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VarioContour 016



NEW



15 mm x 20 mm

Bezeichnung Description	VarioContour 016 Silver
Artikelnummer Art.-No.	10000513
Einheit Unit	meter (m)
Min. VPE Min. OQ	30 m

Silber eloxiertes Aluminiumprofil (15 mm x 20 mm x 4.000 mm), ersetzt das alte Profil VarioContour 006
Silver anodized aluminium profile (15 mm x 20 mm x 4,000 mm), replaces the old VarioContour 006

NEW



26,4 mm x 20 mm

Bezeichnung Description	VarioCap 016
Artikelnummer Art.-No.	11000168
Einheit Unit	Set/set (pu) (VarioCap and 2 screws)
Min. VPE Min. OQ	10

Endkappe aus Aluminium für Contour 016 mit runder Abdeckung oder Linearlinse, im Set sind 2 Schrauben zur Befestigung enthalten
Aluminium end cap for Contour 016 with round cover or linear lens, set contains 2 screws for fixing the end cap

NEW



26,4 mm x 20 mm

Bezeichnung Description	VarioCap 016 with cable release
Artikelnummer Art.-No.	11000170
Einheit Unit	Set/set (pu) (VarioCap and 2 screws)
Min. VPE Min. OQ	10

Endkappe mit Kabelführung aus Aluminium für Contour 016 mit runder Abdeckung oder Linearlinse, im Set sind 2 Schrauben zur Befestigung enthalten
Aluminium end cap with cable release for Contour 016 with round cover or linear lens, set contains 2 screws for fixing the end cap



8 mm x 19,5 mm

Bezeichnung Description	VarioContour 002/004/005 Mounting Profile
Artikelnummer Art.-No.	10000039
Einheit Unit	meter (m)
Min. VPE Min. OQ	30

Al Montageprofil für VarioContour 002/004/005/013/016 (L x H x B) 2.000 mm x 8 mm x 19,5 mm
Aluminium mounting profile for VarioContour 002/004/005/013/016 (L x H x W) 2,000 mm x 8 mm x 19,5 mm



90 mm x 8 mm x 19,5 mm

Bezeichnung Description	VarioClip 002/004/005 90 mm
Artikelnummer Art.-No.	10000040
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Al Halteklammer für VarioContour 002/004/005/013/016 (L x H x B) 90 mm x 8 mm x 19,5 mm
Aluminium mounting clip for VarioContour 002/004/005/013/016 (L x H x W) 90 mm x 8 mm x 19,5 mm



8 mm x 19,4 mm x 29,7 mm

Bezeichnung Description	VarioClip 002/004/005 Plastic*
Artikelnummer Art.-No.	13000032
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Halteklammer aus Kunststoff für VarioContour 002/004/005/013/016 (L x H x B) 8 mm x 19,4 mm x 29,7 mm
Plastic mounting clip for VarioContour 002/004/005/013/016 (L x H x W) 8 mm x 19,4 mm x 29,7 mm

* Keine Verwendung in Verbindung mit Montageprofil
* No use in connection with mounting profile



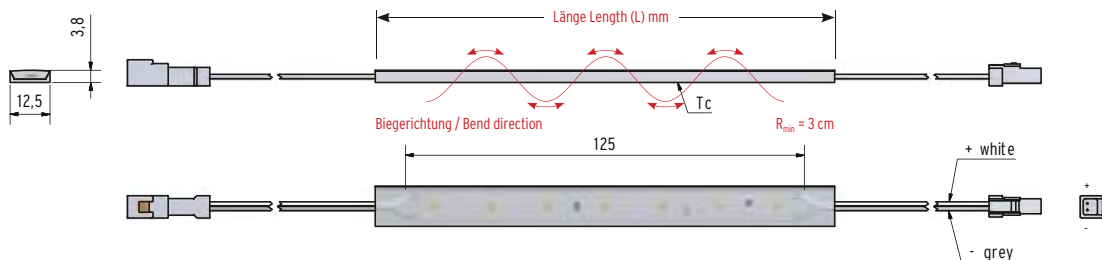
VarioLED™ Flex HYDRA LD White IP67



Wasser- und UV-geschützte flexible lineare LED Leuchte in bis zu 7,5 m Länge im Polyurethanverguss mit weißem Boden und mit 200 mm IP67 Mini Steckverbinder an beiden Enden.

Water & UV resistant flexible linear LED luminaire in up to 7,5 m length in polyurethane encapsulation with white casing and with 200 mm IP67 mini connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144 \text{ mm}$; $LD5 \triangle L_{max} = 7.519 \text{ mm}$; $LD10 \triangle L_{max} = 5.019 \text{ mm}$; $LD15 \triangle L_{max} = 4.019 \text{ mm}$
($LD5 \triangle N = 1... 60$, $LD10 \triangle N = 1... 40$, $LD15 \triangle N = 1... 32$)

Tc-Punkt: Gesamte Rückseite des vergossenen LED Bands
Tc-point: Entire encapsulated flexboard rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		lumen/meter (lm/m) ¹		
		LD5	LD10	LD15
● W820	2500 K	340	680	1090
● W822	2900 K	390	780	1250
● W825	3300 K	450	890	1430
● W827	W927 3800 K 3600 K	400	950	1510
● W830	W930 4300 K 4300 K	400	1000	1600
● W835	W935 5100 K 4900 K	420	1050	1690
● W840	W940 6100 K 6600 K	430	1080	1720
● W850	9600 K	590	1180	1880

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED Flex HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED Flex HYDRA	LD5	W9	27	7519	IP67

Zubehör Accessories

erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. e. g. Art.-# 16000154	Steuerprotokoll Power control system z. B. e. g. Art.-# 17000037
Buchse Female connector z. B. e. g. Art.-# 15000142	3M Klebeband 3M Adhesive tape Art.-# 18200035
	Transparenter Montageclip Transparent mounting clip Art.-# 13000115

Details siehe Seite 338 ff. Details on page 338 ff.



VarioLED™ HYDRA LD White IP67



VarioLED™ HYDRA LD5 IP67, Contour 013



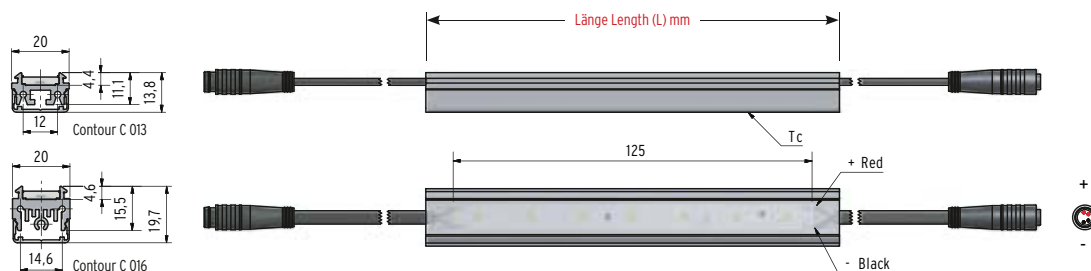
VarioLED™ HYDRA LD25 IP67, Contour 016



Wasser- und UV-geschützte lineare LED Leuchte im Aluminiumprofil mit bis zu 4 m Länge, Polyurethanverguss und 110 mm IP67 Steckverbinder an beiden Enden.

Water & UV resistant linear LED luminaire in aluminum profile with up to 4 m length, polyurethane encapsulation and 110 mm IP67 connectors on both ends.

Abmessungen & verfügbare Längen Dimensions & available lengths



$L = N \times 125 + 19$; $L_{min} = 1 \times 125 + 19 = 144$ mm; LD5/LD10/LD15 $\triangle L_{max} = 4.019$ mm; LD25 $\triangle L_{max} = 3.019$ mm
LD5/LD10/LD15 $\triangle N = 1... 32$, LD25 $\triangle N = 1... 15$

Tc-Punkt: Gesamte Profilrückseite
Tc-point: Entire Al-profile rear side

Elektrische & Optische Betriebsdaten Electrical & output data

Farbtemperatur Color temperature ²		LD5 in C 013	LD10 in C 013	LD15 in C 016	LD25 in C 016
		lumen/meter (lm/m) ¹			
● W820	2500 K	320	640	1030	1670
● W822	2900 K	370	730	1170	1910
● W825	3300 K	420	840	1340	2180
● W827	W927 3800 K	370	890	1420	2310
● W830	W930 4300 K	380	940	1510	2450
● W835	W935 5100 K	390	990	1590	2580
● W840	W940 6100 K	400	1010	1620	2630
● W850	9600 K	550	1110	1770	2880

¹ Die angegebenen Daten sind typische Werte. Aufgrund von Produktionstoleranzen und der Toleranzen der elektrischen Bauteile können die Werte der elektrischen Leistung und des Lichtstroms um bis zu 10% nach oben oder unten abweichen.

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf Seite 476.

² In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 476.

Es gelten die selben Daten wie für VarioLED™ Flex HYDRA LD mit folgenden Ausnahmen: 30% Lichtverlust und Farbverschiebung im Vergleich zum nicht vergossenen LED Strip.
Same data as for VarioLED™ Flex HYDRA LD apply, except: 30% light loss and color shift compared to non encapsulated LED strip.

Bitte sprechen Sie uns an für kundenspezifische Anpassungen, wie z. B. Kabellängen und Stecker.

Please ask for custom specific adaptations like cable length and plugs.

Bestellnummer Order code

	Flex tape	Variant	Color rendering	Color temperature	Length	Ingress protection
Ihre Bestellnummer Your order code	VarioLED HYDRA	LD __	W _	__	_____	IP67
Bestellnummer Beispiel Order code example	VarioLED HYDRA	LD5	W9	27	4019	IP67

Zubehör Accessories

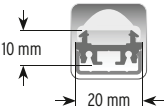
erforderlich required	optional optional
24 V DC Konverter Power supply unit z. B. z. B. e. g. Art.-# 16000154 Buchse Female connector z. B. z. B. e. g. Art.-# 15000091	1-10V Remote Steuerprotokoll Power control system z. B. z. B. e. g. Art.-# 17000037 Halteklammer Mounting Clip Art.-# 10000040 Montage-Profil Mounting Profile Art.-# 10000039

Details siehe Seite 338 ff. Details on page 338 ff.

Sicherheits- und Montagehinweise siehe Seite 410 ff. Safety and assembly information please see page 412 ff.

LED Linear™ GmbH

VarioContour 013



Bezeichnung Description	VarioContour 013 Silver
Artikelnummer Art.-No.	10000512
Einheit Unit	meter (m)
Min. VPE Min. OQ	30 m

Silber eloxiertes Aluminiumprofil (10 mm x 20 mm x 4.000 mm), ersetzt das alte Profil VarioContour 003
Silver anodized aluminium profile (10 mm x 20 mm x 4.000 mm), replaces the old VarioContour 003

Bezeichnung Description	VarioCap 013
Artikelnummer Art.-No.	11000167
Einheit Unit	Set/set (pu) (VarioCap and 2 screws)
Min. VPE Min. OQ	10

Endkappe aus Aluminium für Contour 013 mit runder Abdeckung oder Linearlinse, im Set sind 2 Schrauben zur Befestigung enthalten
Aluminium end cap for Contour 013 with round cover or linear lens, set contains 2 screws for fixing the end cap

Bezeichnung Description	VarioCap 013 with cable release
Artikelnummer Art.-No.	11000169
Einheit Unit	Set/set (pu) (VarioCap and 2 screws)
Min. VPE Min. OQ	10

Endkappe mit Kabelausführung aus Aluminium für Contour 013 mit runder Abdeckung oder Linearlinse, im Set sind 2 Schrauben zur Befestigung enthalten
Aluminium end cap with cable release for Contour 013 with round cover or linear lens, set contains 2 screws for fixing the end cap

Bezeichnung Description	VarioContour 002/004/005 Mounting Profile
Artikelnummer Art.-No.	10000039
Einheit Unit	meter (m)
Min. VPE Min. OQ	30

Al-Montageprofil für VarioContour 002/004/005/013/016 (L x H x B) 2.000 mm x 8 mm x 19,5 mm
Aluminium mounting profile for VarioContour 002/004/005/013/016 (L x H x W) 2.000 mm x 8 mm x 19,5 mm

Bezeichnung Description	VarioClip 002/004/005 90 mm
Artikelnummer Art.-No.	10000040
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Al Halteklammer für VarioContour 002/004/005/013/016 (L x H x B) 90 mm x 8 mm x 19,5 mm
Aluminium mounting clip for VarioContour 002/004/005/013/016 (L x H x W) 90 mm x 8 mm x 19,5 mm

Bezeichnung Description	VarioClip 002/004/005 Plastic*
Artikelnummer Art.-No.	13000032
Einheit Unit	Stück/piece (pc)
Min. VPE Min. OQ	10

Halteklammer aus Kunststoff für VarioContour 002/004/005/013/016 (L x H x B) 8 mm x 19,4 mm x 29,7 mm
Plastic mounting clip for VarioContour 002/004/005/013/016 (L x H x W) 8 mm x 19,4 mm x 29,7 mm

* Keine Verwendung in Verbindung mit Montageprofil
* No use in connection with mounting profile

EDGE EV3WG

EVOLUTION

LED Recessed Linear

Wall Grazer for Textured Walls



Project Name

Date

Catalog Number

Type

CONSTRUCTION Extruded aluminum trim with formed cold rolled 20 gauge steel back box housing. Extruded aluminum module with micro reflector for perfect wall grazing illumination.

APPLICATION Edge Evolution Wall Grazer is designed to highlight textured wall surfaces. Not recommended for smooth surfaces. For smooth surface walls, refer to Edge Evolution Wall Wash or Edge Evolution Outline.

ELECTRICAL Electronic, 120 to 277 volt input and 36V output. 0-10 volt dimming standard. Must specify 1D in circuiting for dimming.

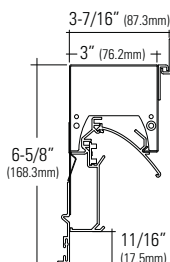
LED All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. R9≥20, 27K is CRI≥90, 30K, 35K, and 40K is CRI≥82. Minimum lifetime greater than 60,000 hours.

MOUNTING Edge is designed to install into acoustical grid and inaccessible ceilings. Specify GXG, FL, SFS, NFN for individual, unjoinable units (individual units will fall on-grid). Specify GX, FL, SF, NF for continuous runs (runs designed to fall on-grid). Wall Grazer must be installed prior to ceiling installation. Consult factory for detailed installation instructions.

FINISH Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish, consult factory for chip of standard paint finishes. Contact factory for additional custom color and finish options.

WARRANTY Edge LED offered with a 5-year limited warranty. Covers LED, driver and fixture.

LABELS IC Rated, UL and cUL Listed, approved for dry/damp location unless otherwise noted.



LUMINAIRE SPECIFICATION

Sample Catalog #: EV3WG-30-24'-FL-120-1C-V

EV3WG-

HOUSING	COLOR/LUMENS	LENGTH	MOUNTING ¹	VOLTAGE	CIRCUITING	FINISH	OPTIONS
EV3WG- Edge Evolution 3 Wall Grazer for textured wall surfaces ¹⁰	Individual Units² 2- 2', 23" (584.2mm) fixture ² 3- 3', 35" (889mm) fixture ² 4- 4', 47" (1193.8mm) fixture ² 6- 6', 71" (1803.4mm) fixture ² 8- 8', 95" (2413mm) fixture ² Continuous Runs³ xx'- Specify row length to 1' (304.8mm) increments			120- 120 V 277- 277 V UNV- UNV (120-277)	1C- Single Circuit 1D- Single Circuit Dimming ⁵ 1B- Single Circuit with Battery Pack ^{5,6} 1E- Single Circuit with Emergency Circuit ⁹	W- Matte White S- Metallic Silver BL- Textured Black GR- Graphite BR- Bronze CC- Custom Color	
27K Color Temperature Lumen Options 27- 27K, 249 lumens/ft (6.0 watts/ft) 27HO- 27K, 393 lumens/ft (10.3 watts/ft) 30K Color Temperature Lumen Options 30- 30K, 303 lumens/ft (6.0 watts/ft) 30HO- 30K, 479 lumens/ft (10.3 watts/ft) 35K Color Temperature Lumen Options 35- 35K, 316 lumens/ft (6.0 watts/ft) 35HO- 35K, 500 lumens/ft (10.3 watts/ft) 40K Color Temperature Lumen Options 40- 40K, 324 lumens/ft (6.0 watts/ft) 40HO- 40K, 513 lumens/ft (10.3 watts/ft)				Individual Units (CANNOT BE JOINED)² Acoustical Grid Ceiling G1G- 1" (25.4mm) Ceiling Grid G9G- 9/16" (14.3mm) Ceiling Grid GBG- 9/16" (14.3mm) Ceiling Grid with Bevel Trim GSG- Screw Slot Ceiling Grid Inaccessible Ceiling FL- Standard 1/2" (12.7mm) Flange SFS- Spackle Flange NFN- Flangeless ⁴ Continuous Runs (JOINABLE)³ Acoustical Grid Ceiling G1- 1" (25.4mm) Ceiling Grid G9- 9/16" (14.3mm) Ceiling Grid GB- 9/16" (14.3mm) Ceiling Grid with Bevel Trim GS- Screw Slot Ceiling Grid Inaccessible Ceiling FL- Standard 1/2" (12.7mm) Flange SF- Spackle Flange NF- Flangeless ⁴		CP- Chicago Plenum C90I- 90° Inside Corner ^{7,9} C90O- 90° Outside Corner ^{7,9} C45I- 45° Inside Corner ^{7,9} C45O- 45° Outside Corner ^{7,9} EF- End Filler ⁸	
Custom Output CL- Specify color temp. and lumens/ft. (i.e. CL35600) CW- Specify color temp. and wattage/ft. (i.e. CW407.5) (Specify lumens/watts between standard offering listed above. Lumens are specified per color temp.)							

¹See back page for mounting detail. ²Individual units cannot be joined. All end trims are factory installed and cannot be removed in the field. ³Continuous Rows made up of both even and odd length fixtures. Designed to fall on-grid. ⁴NF and NFN to be utilized for metal pan / millwork ceiling. ⁵Some Edge configurations will not accommodate all electrical options. Consult factory. ⁶Integral battery packs with remote test switch are provided with 1B option. ⁷See back page for corner details. ⁸End Filler option used for fitting fixture into odd lengths. Filler is non-illuminated. ⁹Submittal drawings required. ¹⁰Designed to highlight textured wall surfaces. Not recommended for smooth surfaces. Refer to Edge Evolution Wall Wash or Outline for smooth surface applications.



PINNACLE
ARCHITECTURAL LIGHTING

Pinnacle Architectural Lighting 12655 East 42nd Avenue, Suite 50 Denver, CO 80239
Phone 303.322.5570 Fax 303.322.5568 www.pinnacle-ltg.com

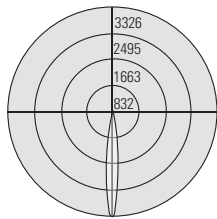
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February 2016

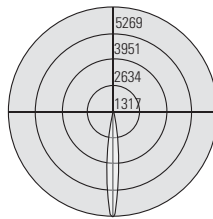
Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previous printed or electronic versions.

PHOTOMETRICS

EV3_WG

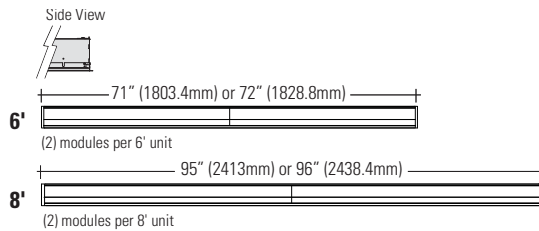
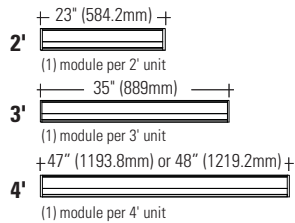


Test #: ILT82935
Part #: EV3WG-40-4'
Lumens per watt: 54
Total Delivered Lumens: 1296



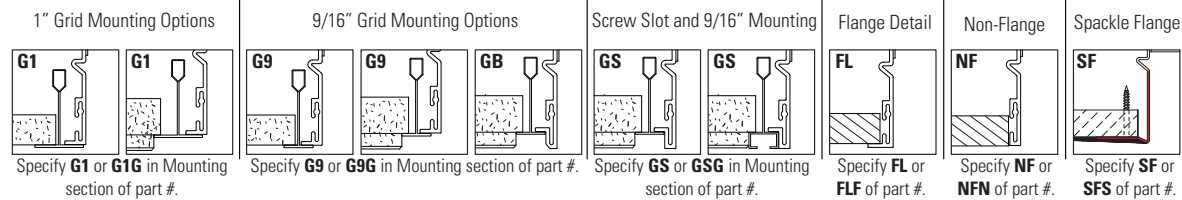
Test #: ILT82934
Part #: EV3WG-40HQ-4'
Lumens per watt: 50
Total Delivered Lumens: 2050

INDIVIDUAL AND CONTINUOUS RUN MODULES¹

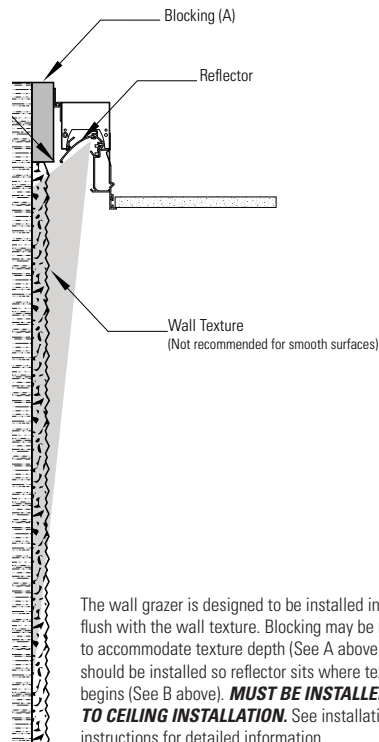


¹Acoustical Grid Ceiling and Inaccessible Ceilings available as individual units or continuous rows. Individual units and rows are available for on-grid installation with acoustical ceilings.

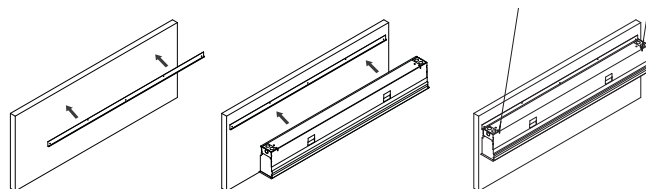
MOUNTING



APPLICATION GUIDELINES

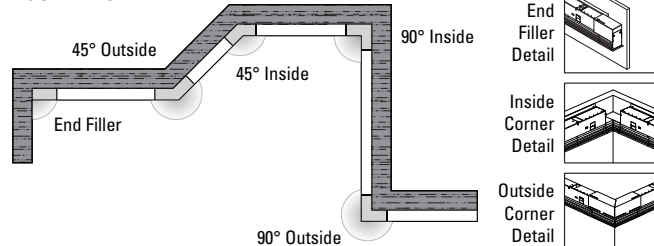


INSTALLATION



The wall grazer easily installs into any acoustical grid and inaccessible ceiling. Install wall rail onto wall and hook fixture onto rail. Tie off fixture to structure. In some installations, additional blocking may be required to accommodate texture depth. **MUST BE INSTALLED PRIOR TO CEILING INSTALLATION.** See installation instructions for detailed information.

CORNERS



Pinnacle Lighting's wall grazer provides inside and outside corners, and End Fillers for full room perimeter lighting. The 45 degree and 90 degree corners allow for +/- 5 degrees of adjustability to accommodate any wall imperfections. Specify runs to the nearest foot and non-illuminated corners are slid into place to finish the perimeter lighting. Minimum distance for corners is 5-1/2" from the wall, with a max of 12" away from the wall. The End Fillers have a maximum of 6" per end. See installation instructions for detailed information.



NTEK/NHTEK 2-Circuit/2-Neutral 120V and 277V Series Track

Specifications/Features

Track

Ideal for dimming intensive applications.

Independent neutrals guarantee that the two circuits are completely isolated, eliminating cross-circuit interference and enable greater power capacity (2 x 20A) than common neutral track.

Superior dimming capability gives the ability to dim on two independent circuits without harmonics or interference on the neutral conductor.

Oversized conductors for higher operating safety and reduced overload potential.

Secure Bus Bar Insulation secured both conductors and insulation for the life of the product.

Separate mechanical suspension points provide superior weight bearing capacity, ensure electrical contact integrity and reduce the likelihood of arcing.

Polarity ridge takes the guesswork out of connector and track alignment during installation.

Made of architectural grade extruded aluminum. Can be field cut to desired length.

Compatibility



NTEK70

All ConTech track luminaires must have an NTEK adapter installed.

For 120V track, fixture adapter NTEK70 must be ordered separately (NTEK70).

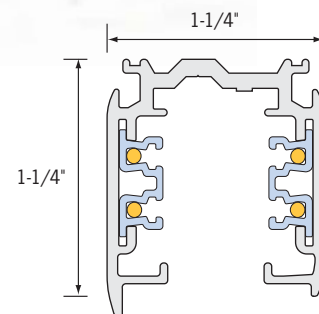
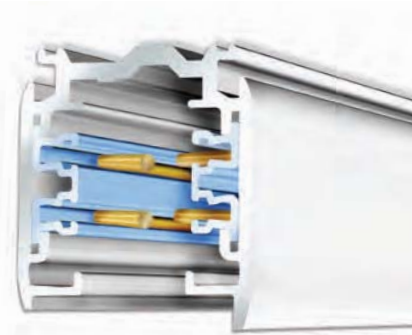
For 277V Track, fixture adapter must be factory installed.

Warranty

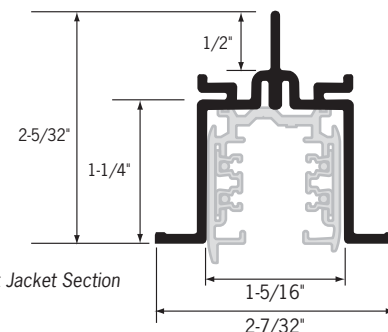
Track is covered by ConTech's one (1) year full replacement guarantee after date of purchase.

Listing

cULus listed.



Track Section



Recessed Track Jacket Section

Ordering Information

Example Order: - -

Track Sections

Track Finish

- NTEK44** - 4' (48") Length 120V Track
- NTEK48** - 8' (96") Length 120V Track
- NTEK412** - 12' (144") Length 120V Track
- NHTEK44** - 4' (48") Length 277V Track
- NHTEK48** - 8' (96") Length 277V Track
- NHTEK412** - 12' (144") Length 277V Track

- B** - Black
- P** - White
- S** - Silver

Recessed Track Jacket Sections

Jacket Finish

- NFTP44** - 4' (48") Length;
51-1/2" Actual Length
- NFTP48** - 8' (96") Length;
99-1/2" Actual Length
- NFTP412** - 12' (144") Length;
147-1/2" Actual Length

- B** - Black
- P** - White



RAH/RTH Recessed Track Housing System

Specifications/Features

All mounting hardware is provided for installation finishing to drywall or suspended ceilings. Spacers are supplied with RTH-4 and RTH-8 to adjust for thickness of single or 2-circuit track. All finishing surfaces are white enamel. A major feature and benefit of ConTech track and track components are the "can't miss" polarity indicators which work together and assure proper polarity.

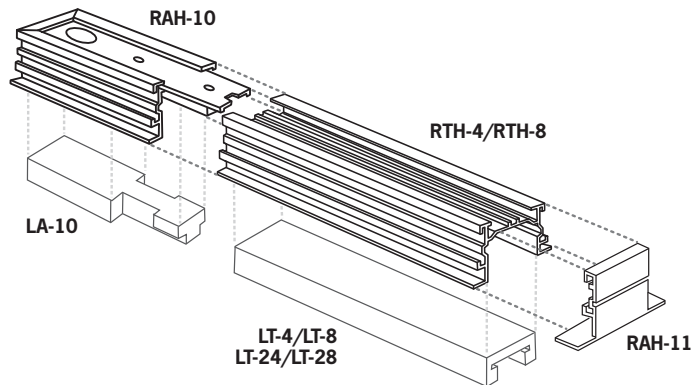
Each section of track has a groove incised length-wise into the exposed underside of the track indicating the positive terminal. All connectors and fixture adapters also have an arrow or "P" on their connecting ends indicating their positive terminal. Track, connectors and fixture adapters are designed to fit together easily when polarities are correctly aligned.

This System is designed for use with 1-circuit or 2-circuit ConTech track. The extruded aluminum housing is mounted into the ceiling cavity which allows for flush installation of the track system to any style of ceiling.

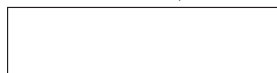
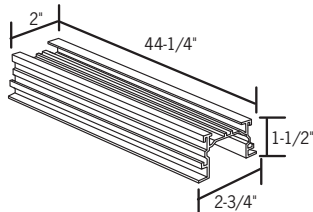
Catalog No. _____

Type _____

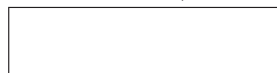
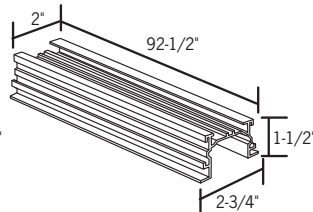
Project _____



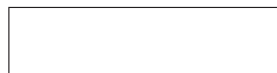
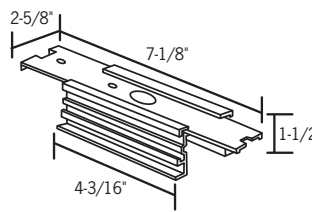
Recessed Track Housing System



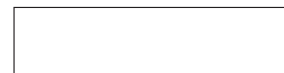
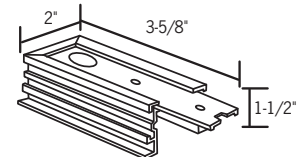
RTH-4
Housing for 4' Track Sections
Use with LT-4 or LT-24.



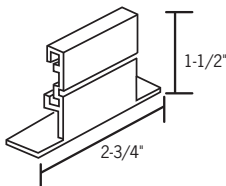
RTH-8
Housing for 8' Track Sections
Use with LT-8 or LT-28.



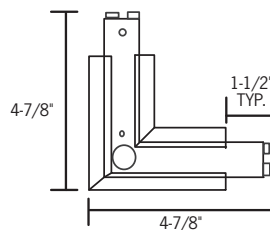
RAH-2
Straight Connector Housing
Use with LA-12 or LA-212. No connector housing required when using the LA-2 or LA-202 mini connector.



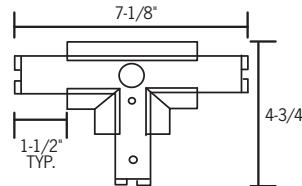
RAH-10
End Feed Housing
Use with LA-10 or LA-210.



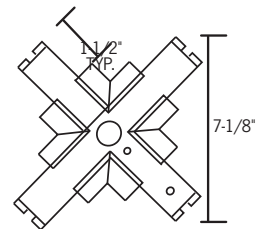
RAH-11
Housing Dead End Piece
Order one (1) to complete each track run.



RAH-12
"L" Connector Housing
Use with LA-12 or LA-212.



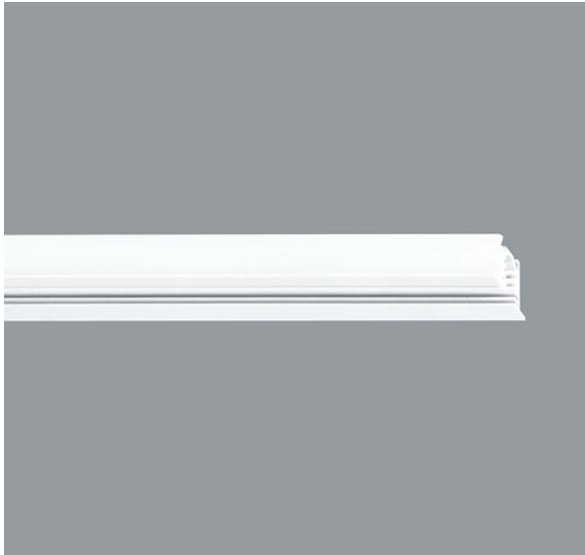
RAH-13
"T" Connector Housing
Use with LA-13, LA-14, LA-213 or LA-214.



RAH-15
"X" Connector Housing
Use with LA-15 or LA-215.

ERCO

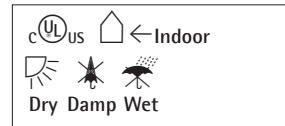
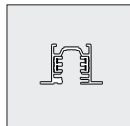
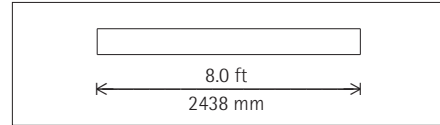
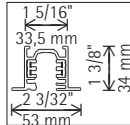
ERCO 2-circuit flanged track



78352.023 White (RAL9002)
Length 8.0ft / 2438mm

Product description

Track for two separately switchable circuits. Flanges for ceiling panels.
Aluminum profile, powder-coated.
4 isolated copper conductors and earth conductor.
ERCO track have been tested and approved for 20A in accordance with UL1598.
When connecting the track to a 120V system, a total load of 20A per circuit is possible.
Weight 6.50lbs / 2.95kg



For your regional contact in the
ERCO Sales network click here
www.erco.com/contact

© ERCO GmbH 2017

Technical region: 120V/60Hz
We reserve the right to make technical
and design changes.
Edition: 27.01.2017
Current version under
www.erco.com/78352.023



Catalog No. _____

Type _____

CTL802818LH

Optica Series 18W Dimmable LED Track Fixture with Horizontal Ballast

Project _____

Specifications/Features

Fixture

Low wattage, eco-friendly, LED track fixture provides high lumen output. Select from spot, medium and flood beam distributions. Dimming option allows illumination down to 10%. Note: Dimming option requires larger housing. See drawings for dimensions. Die cast aluminum housing with horizontal driver. Precision aiming adjustment. 350°+ Horizontal rotation, 180° vertical rotation. Integral ON/OFF switch and track polarity indicator are standard. Will accept (1) LF18 lens.

Lamp

(7) LEDs, 700mA constant current input; 18W/1200Lm total.
Color Temperature: 2700K (2725 ± 145)
3000K (3045 ± 175)
3500K (3465 ± 245)
4000K (3985 ± 275)

Electrical

Driver: 120V primary and 700mA secondary, 60Hz.
Input current: 0.20A max

Warranty

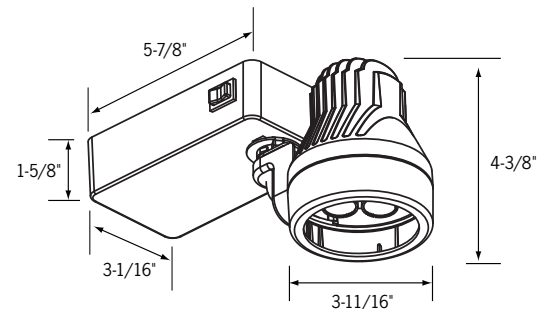
This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

Listing

cCSAus Certified to UL standards. Suitable for dry locations.



Non-Dimming Housing



Dimming Housing

Ordering Information

Example Order: —

Fixture	Beam	Color Temp	Dimming Option	Finish	Accessories
CTL802818LH	S - Spot M - Medium F - Flood	27 - 2700K 3 - 3000K 35 - 3500K 4 - 4000K	N - No Dimming D - Dimming	B - Black P - White S - Silver	LA-35- Black Honeycomb Louver LA-44-(B,P,S) - Egg Crate Louver LF18 - A, B, CL, G, LB, R, RO, Y, 73, LS, SL, UV <input type="text" value='3-1/16" Dia. Tempered Glass Lenses'/>

Color/Pattern Legend
-A (Amber), -B (Blue), -CL (Clear), -G (Green),
-LB (Light Blue), -R (Red), -RO (Rose),
-Y (Yellow), -73 (Spread Lens), -LS (Linear Spread Lens), -SL (Soft Light), -UV (Optivex UV Filter)



CTL802818LH

Optica Series 18W Dimmable LED Track Fixture with Horizontal Ballast

Catalog No. _____

Type _____

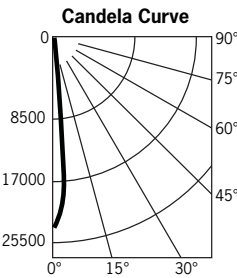
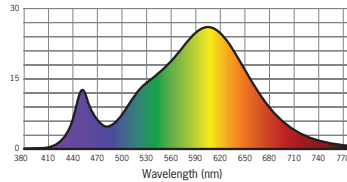
Project _____

Photometrics

CTL802818LHS3

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 81023

Light Output (Fixture Lumens): 1061
Total Watts@120V: 17
Lumens Per Watt: 75
Color Rendering Index (CRI)¹: 83
Color Temperature (CCT)²: 3003K Warm White
Spectral Power Distribution Chart³
LM-79 Test No. 81024



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	25413	
5	15247	979
15	695	216
25	59	31
35	25	17
45	12	10
55	6	6
65	2	2
75	1	1
85	0	0
95	0	0

Intensity Distribution

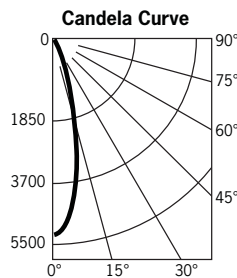
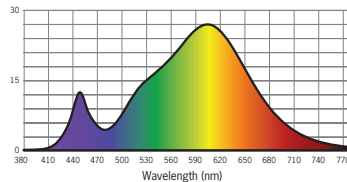
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	705.9	1.2
8'	397.1	1.6
10'	254.1	2.0
12'	176.5	2.4
14'	129.7	2.8
16'	99.3	3.2

Beam Distribution: 11°
Spacing Criterion: 0.19

CTL802818LHM3

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 80828

Light Output (Fixture Lumens): 1319
Total Watts@120V: 17
Lumens Per Watt: 78
Color Rendering Index (CRI)¹: 82
Color Temperature (CCT)²: 3022K Warm White
Spectral Power Distribution Chart³
LM-79 Test No. 80840



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	5452	
5	4862	420
15	2099	574
25	454	227
35	82	58
45	29	23
55	13	12
65	3	3
75	1	1
85	1	1
95	0	0

Intensity Distribution

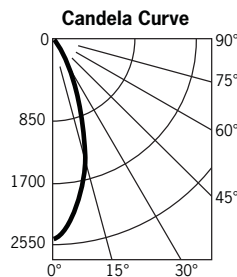
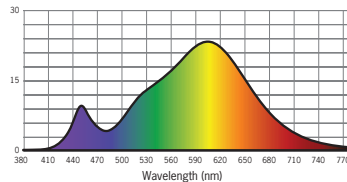
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	151.4	2.5
8'	85.2	3.4
10'	54.5	4.2
12'	37.9	5.1
14'	27.8	5.9
16'	21.3	6.8

Beam Distribution: 25°
Spacing Criterion: 0.42

CTL802818LHF3

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 80829

Light Output (Fixture Lumens): 1120
Total Watts@120V: 17.5
Lumens Per Watt: 64
Color Rendering Index (CRI)¹: 82
Color Temperature (CCT)²: 2997K Warm White
Spectral Power Distribution Chart³
LM-79 Test No. 80841



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	2476	
5	2328	211
15	1492	409
25	623	291
35	194	128
45	62	50
55	22	20
65	6	6
75	2	2
85	2	2
95	0	0

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	68.8	3.4
8'	38.7	4.6
10'	24.8	5.7
12'	17.2	6.9
14'	12.6	8.0
16'	9.7	9.2

Beam Distribution: 35°
Spacing Criterion: 0.57

1. Accuracy of rendering colors
2. Color appearance of light source
3. Colors present within the light source

ERCO

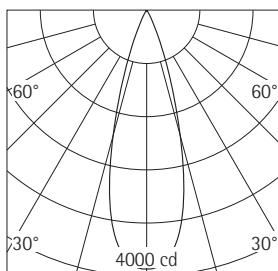
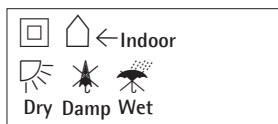
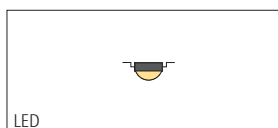
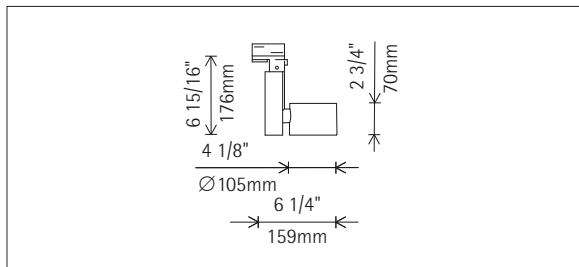
Optec Spotlight



77167.023 White (RAL9002)
LED 12W 1260lm 3000K warm white
Dimmable
Version 4
Spherolit lens, flood

Product description

Cylindrical light head: cast aluminum, powder-coated. 270° tilt.
Housing: polymer, rotatable on turning adapter through 360°.
ERCO control gear 120V, 60Hz, dimmable. Potentiometer for brightness control 1%-100%.
Turning adapter for ERCO 2-circuit track: polymer, white.
LED module: high-power LEDs on metal-core PCB. Collimating lens made of optical polymer.
Dimming with external dimmers possible (trailing edge).
Weight 1.63lbs / 0.74kg
Available from 2nd quarter 2017



h(ft)	E(fc)	D
		30°
3	432	1'7"
6	108	3'3"
9	48	4'10"
12	27	6'5"
15	17	8'0"

Technical data

Luminous flux of the luminaire	1091lm
Connected load	16W
Luminaire efficacy	68lm/W
Color deviation	2 SDCM
Color rendition index	CRI>90
Lumen maintenance	L90/B10 ≤50000h
LED failure rate	0.1% ≤50000h
LMF	E



Mounting

ERCO 2-circuit track
Hi-trac 2-circuit track
1-circuit singlet

For your regional contact in the
ERCO Sales network click here
www.erco.com/contact

Technical region: 120V/60Hz
We reserve the right to make technical
and design changes.
Edition: 27.01.2017
Current version under
www.erco.com/77167.023

ERCO

Optec Spotlight

Planning data

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.96	0.94	0.90	0.86	0.93	0.91	0.86	0.81	0.92	0.90	0.84	0.79
RSMF	0.99	0.97	0.95	0.92	0.98	0.97	0.95	0.92	0.98	0.97	0.95	0.92
Hours of operation (h)	1000	5000	10000	20000	30000	40000	50000					
LLMF	1.00	0.99	0.98	0.96	0.94	0.92	0.90					
LSF	1	1	1	1	1	1	1					
MF	LMFxRSMFxLLMFxLSF											
MF	Maintenance Factor											
LMF	Luminaire Maintenance Factor											
RSMF	Room Surface Maintenance Factor											
LLMF	Lamp Lumens Maintenance Factor											
LSF	Lamp Survival Factor											
P	Room pure											
C	Room clean											
N	Room normal											
D	Room dirty											

Technical data based on international standards and directives	
IEC 60598	Luminaires – Parts 1 + 2: General requirements, particular requirements and tests
IEC 62031	LED modules for general lighting – Safety specifications
IEC 62471	Photobiological safety of lamps and lamp systems
UL 1598	Luminaires
UL 1574	Standard for Track Lighting Systems
UL 8750	Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products
IES LM-79-08	Electrical and Photometric Measurements of Solid-State Lighting Products
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources
CIE 13	Method of measuring and specifying color rendering properties of light sources

ERCO

Optec Spotlight

Accessories



70857.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Spot



70861.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Wallwash



70858.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Flood



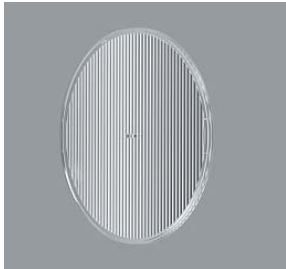
70633.000
Snoot
Polymer.
Black



70859.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Wide flood



73997.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Extra wide flood



70860.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Oval flood



Catalog No. _____

Type _____

CTL802818LH

Optica Series 18W Dimmable LED Track Fixture with Horizontal Ballast

Project _____

Specifications/Features

Fixture

Low wattage, eco-friendly, LED track fixture provides high lumen output. Select from spot, medium and flood beam distributions. Dimming option allows illumination down to 10%. Note: Dimming option requires larger housing. See drawings for dimensions. Die cast aluminum housing with horizontal driver. Precision aiming adjustment. 350°+ Horizontal rotation, 180° vertical rotation. Integral ON/OFF switch and track polarity indicator are standard. Will accept (1) LF18 lens.

Lamp

(7) LEDs, 700mA constant current input; 18W/1200Lm total.
Color Temperature: 2700K (2725 ± 145)
3000K (3045 ± 175)
3500K (3465 ± 245)
4000K (3985 ± 275)

Electrical

Driver: 120V primary and 700mA secondary, 60Hz.
Input current: 0.20A max

Warranty

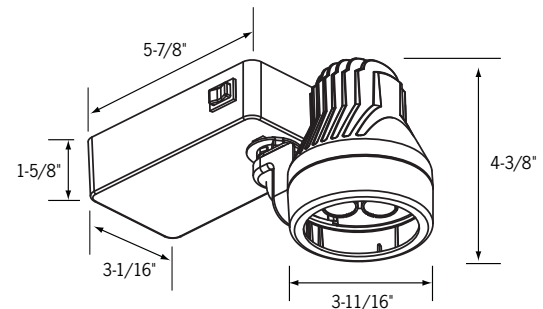
This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

Listing

cCSAus Certified to UL standards. Suitable for dry locations.



Non-Dimming Housing



Dimming Housing

Ordering Information

Example Order: —

Fixture	Beam	Color Temp	Dimming Option	Finish	Accessories
CTL802818LH	S - Spot M - Medium F - Flood	27 - 2700K 3 - 3000K 35 - 3500K 4 - 4000K	N - No Dimming D - Dimming	B - Black P - White S - Silver	LA-35- Black Honeycomb Louver LA-44-(B,P,S) - Egg Crate Louver LF18 - A, B, CL, G, LB, R, RO, Y, 73, LS, SL, UV <input type="text" value='3-1/16" Dia. Tempered Glass Lenses'/>

Color/Pattern Legend
-A (Amber), -B (Blue), -CL (Clear), -G (Green),
-LB (Light Blue), -R (Red), -RO (Rose),
-Y (Yellow), -73 (Spread Lens), -LS (Linear Spread Lens), -SL (Soft Light), -UV (Optivex UV Filter)



Catalog No. _____

CTL802818LH

Optica Series 18W Dimmable LED Track Fixture with Horizontal Ballast

Type _____

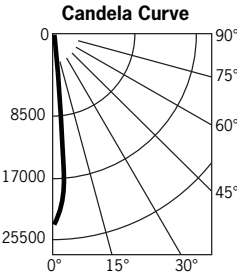
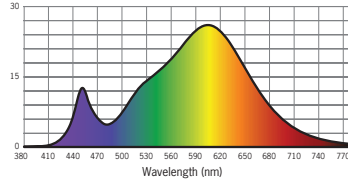
Project _____

Photometrics

CTL802818LHS3

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 81023

Light Output (Fixture Lumens): 1061
Total Watts@120V: 17
Lumens Per Watt: 75
Color Rendering Index (CRI)¹: 83
Color Temperature (CCT)²: 3003K Warm White
Spectral Power Distribution Chart³
LM-79 Test No. 81024



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	25413	
5	15247	979
15	695	216
25	59	31
35	25	17
45	12	10
55	6	6
65	2	2
75	1	1
85	0	0
95	0	0

Intensity Distribution

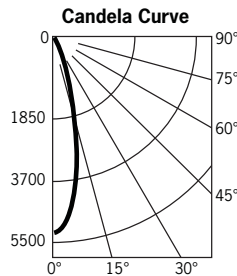
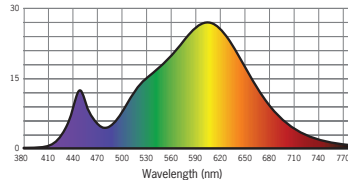
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	705.9	1.2
8'	397.1	1.6
10'	254.1	2.0
12'	176.5	2.4
14'	129.7	2.8
16'	99.3	3.2

Beam Distribution: 11°
Spacing Criterion: 0.19

CTL802818LHM3

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 80828

Light Output (Fixture Lumens): 1319
Total Watts@120V: 17
Lumens Per Watt: 78
Color Rendering Index (CRI)¹: 82
Color Temperature (CCT)²: 3022K Warm White
Spectral Power Distribution Chart³
LM-79 Test No. 80840



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	5452	
5	4862	420
15	2099	574
25	454	227
35	82	58
45	29	23
55	13	12
65	3	3
75	1	1
85	1	1
95	0	0

Intensity Distribution

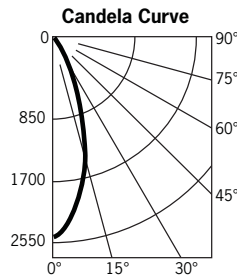
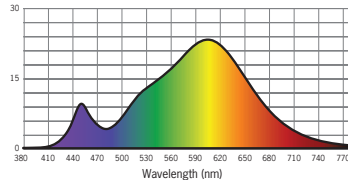
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	151.4	2.5
8'	85.2	3.4
10'	54.5	4.2
12'	37.9	5.1
14'	27.8	5.9
16'	21.3	6.8

Beam Distribution: 25°
Spacing Criterion: 0.42

CTL802818LHF3

Designed for 50,000 Hour Lamp Life*; LM-63 Test No. 80829

Light Output (Fixture Lumens): 1120
Total Watts@120V: 17.5
Lumens Per Watt: 64
Color Rendering Index (CRI)¹: 82
Color Temperature (CCT)²: 2997K Warm White
Spectral Power Distribution Chart³
LM-79 Test No. 80841



Candlepower Summary

FROM 0	CANDELA	LUMENS
0	2476	
5	2328	211
15	1492	409
25	623	291
35	194	128
45	62	50
55	22	20
65	6	6
75	2	2
85	2	2
95	0	0

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	68.8	3.4
8'	38.7	4.6
10'	24.8	5.7
12'	17.2	6.9
14'	12.6	8.0
16'	9.7	9.2

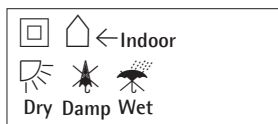
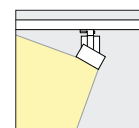
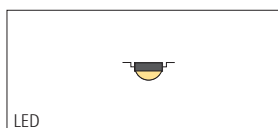
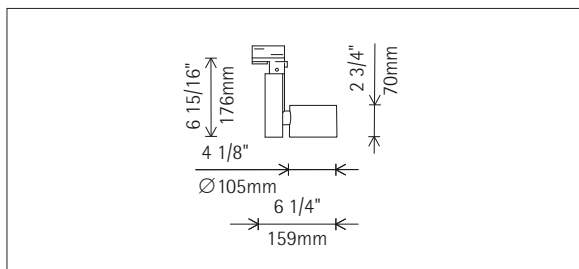
Beam Distribution: 35°
Spacing Criterion: 0.57

1. Accuracy of rendering colors
2. Color appearance of light source
3. Colors present within the light source

*Dependent on surrounding temperatures

ERCO

Optec Lens wallwasher



77183.023 White (RAL9002)
LED 12W 1260lm 3000K warm white
Dimmable
Version 4
Spherolit lens, wallwash

Product description

Cylindrical light head: cast aluminum, powder-coated. 270° tilt.
Housing: polymer, rotatable on turning adapter through 360°.
ERCO control gear 120V, 60Hz, dimmable. Potentiometer for brightness control 1%-100%.
Turning adapter for ERCO 2-circuit track: polymer, white.
LED module: high-power LEDs on metal-core PCB. Collimating lens made of optical polymer.
Dimming with external dimmers possible (trailing edge).
Weight 1.63lbs / 0.74kg
Available from 2nd quarter 2017

Technical data

Luminous flux of the luminaire	1060lm
Connected load	16W
Luminaire efficacy	66lm/W
Color deviation	2 SDCM
Color rendition index	CRI>90
Lumen maintenance	L90/B10 ≤50000h
LED failure rate	0.1% ≤50000h
LMF	E



Mounting

ERCO 2-circuit track
Hi-trac 2-circuit track
1-circuit singlet

For your regional contact in the
ERCO Sales network click here
www.erco.com/contact

Technical region: 120V/60Hz
We reserve the right to make technical
and design changes.
Edition: 27.01.2017
Current version under
www.erco.com/77183.023

ERCO

Optec Lens wallwasher

Planning data

Illuminance (fc)

Specifications:
Number of luminaires n > 5
Wall height (ft) 13.0
Angle of tilt 35°

Offset from wall (ft)	4		4		5		5	
Luminaire spacing (ft)	4		5		5		6	
	below the luminaire	between the luminaires	below the luminaire	between the luminaires	below the luminaire	between the luminaires	below the luminaire	between the luminaires
1.500	16	17	14	13	9	9	7	7
2.500	21	22	18	17	12	12	10	10
3.500	22	23	19	18	14	14	12	12
4.500	23	22	19	17	14	15	13	12
5.500	21	21	18	16	14	15	13	12
6.500	20	19	17	15	14	14	12	11
7.500	17	17	14	13	13	13	12	11
8.500	15	14	12	12	12	12	11	10
9.500	12	12	10	10	11	11	10	9
10.500	10	9	8	8	10	10	8	8
11.500	8	8	6	6	8	8	7	7

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.96	0.94	0.90	0.86	0.93	0.91	0.86	0.81	0.92	0.90	0.84	0.79
RSMF	0.99	0.97	0.95	0.92	0.98	0.97	0.95	0.92	0.98	0.97	0.95	0.92

Hours of operation (h)	1000	5000	10000	20000	30000	40000	50000
LLMF	1.00	0.99	0.98	0.96	0.94	0.92	0.90
LSF	1	1	1	1	1	1	1

- MF LMFxRSMFxLLMFxLSF
- MF Maintenance Factor
- LMF Luminaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty

Technical data based on international standards and directives

- IEC 60598 Luminaires – Parts 1 + 2: General requirements, particular requirements and tests
- IEC 62031 LED modules for general lighting – Safety specifications
- IEC 62471 Photobiological safety of lamps and lamp systems
- UL 1598 Luminaires
- UL 1574 Standard for Track Lighting Systems
- UL 8750 Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products
- IES LM-79-08 Electrical and Photometric Measurements of Solid-State Lighting Products
- IES LM-80-08 Measuring Lumen Maintenance of LED Light Sources
- CIE 13 Method of measuring and specifying color rendering properties of light sources

ERCO

Optec Lens wallwasher

Accessories



70857.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Spot



70861.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Wallwash



70858.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Flood



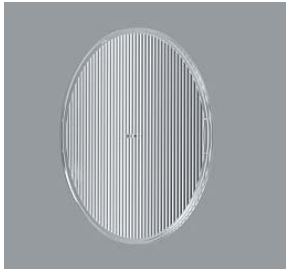
70634.000
Snoot
Polymer.
Black



70859.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Wide flood



73997.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Extra wide flood



70860.000
Spherolit lens
made of optical polymer.
Replacement without tools.
Oval flood



5/09/2017

VIA PDF

Ms. Mary Joy Scala
City of Charlottesville Neighborhood Development Services
City Hall
PO Box 911
Charlottesville VA 22902

Subject: 510-600 West Main Street, Certificate of Appropriateness

Dear Mary Joy,

The attached submission addresses the outstanding issues requiring BAR approval for the Certificate of Appropriateness with the exception of signage and signage lighting. We would like to defer on those issues for a separate BAR presentation. Otherwise, we hope to receive approval of the COA at the BAR's May 16 meeting.

Rooftop Mechanical Units

The BAR requested that we study the visibility of the mechanical units on the roof of the new building from various point in the city.

Attached are five view studies. One is from the Drewary-Brown bridge, three are from the fourth floor of the Albemarle Hotel and the fifth is from the future Quirk Hotel roof close to West Main Street. In these views we have chosen to depict a 5 foot tall mechanical screen.

We have also included a roof plan, A1.17, showing the extent of the screen and a sheet showing the screen detail, A10.5. The material would be perforated painted aluminum to match the perforated screen on the rest of the building.

Landscape

Per the BAR's recommendations we have modified 2 plant species, *Festuca glauca* (blue fescue) changed to *hypericum calycinum* and *Ulmus parvifolia* (bosque elm) changed to *ulmus americana* (American elm). These changes can be seen on L4.0, attached.

A tree grate was added to new street tree. This tree grate was recommended by the city to match what is being proposed in the West Main Street planning. See L2.1 and L3.0.

The landscape architect has confirmed that the *passiflora incarnata* vine proposed for the green screens on the existing buildings is a twining vine. Passion Flower Vine climbs via stem tendrils, which are shoots that grow out of the stems. These will curl around the trellis structure, unlike Boston Ivy which uses adhesive pads to attach to a building wall.

The details of the new benches/planters on West Main have been reviewed and modified for added durability. See L3.1.

We were asked to look at the site line from cars coming out of the parking ramp to pedestrians on the other side of the proposed site wall. See the section diagram attached.

Ms. Mary Joy Scala

We were also asked to provide a cut sheet for the proposed bike racks in the plaza in front of the new retail space, see attached.

Existing Building Renovations

The storefront window replacing the existing door has been changed to match the vinyl double hung window directly above. The height of the window will closely match the original window openings. See A2.50, attached.

Half round gutters have been added and the new mechanical screen between the roof dining area and the mechanical area on the Blue Moon roof has been lowered to match the guardrail height. See A2.50.

The green screen details have been finalized showing an attachment at the base and soffit only, also the screen has been made demountable, as discussed with the BAR in April. See A2.50, A2.51 and A6.50, attached.

Lighting

The landscape lighting plan has been finalized, see L6.0

Glazing

Glass samples will be provided at the meeting on May 16th for the BAR's review.

Thank you for your consideration.

Sincerely,

Whitney Hudson Glick



510-600 WEST MAIN STREET
CHARLOTTESVILLE, VA 22902

BAR SUBMISSION FOR MAY MEETING
SUBMITTED: 05.09.2017

CONTENTS:
ROOFTOP MECHANICAL UNITS
LANDSCAPE
EXISTING BUILDING RENOVATIONS
LIGHTING



ROOFTOP MECHANICAL UNITS

VIEWS FROM CITY

ROOF PLAN

ROOF SCREEN DETAIL











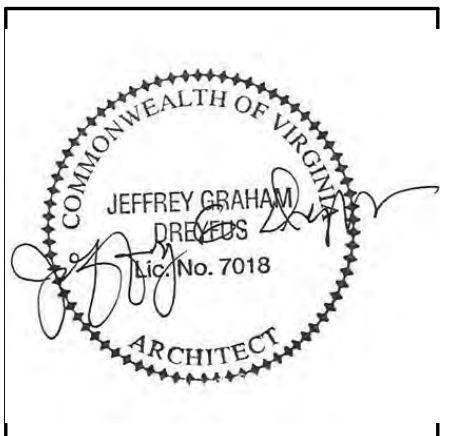
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HEIRLOOM WEST MAIN DEVELOPMENT
c/o Grayson Consulting
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MEP, FP ENGINEERS
STAENGL ENGINEERING
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Charlottesville, VA 22902



address:
**510-600 WEST
MAIN STREET
CHARLOTTESVILLE, VA**

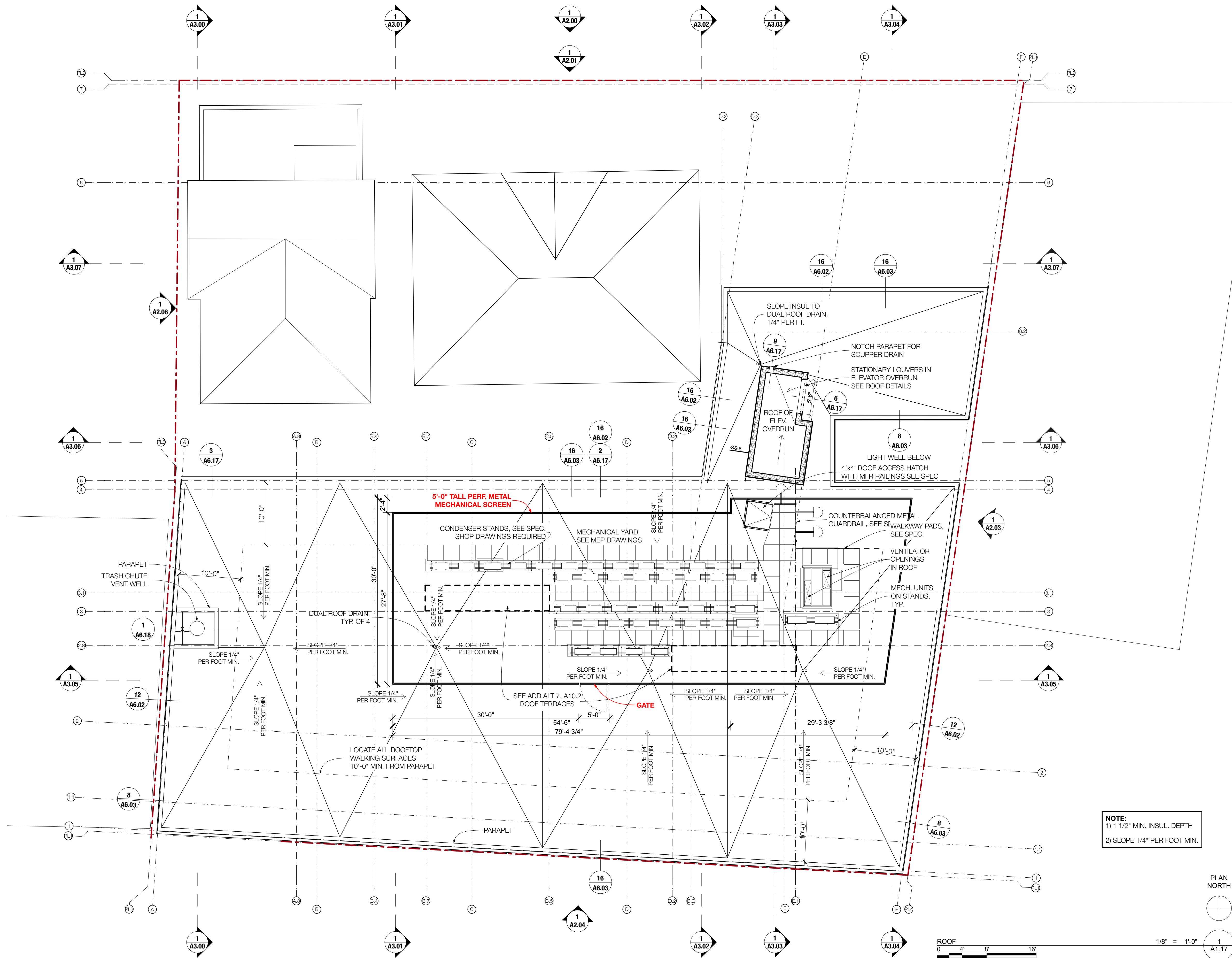
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MARK DATE DESCRIPTION

**ROOF PLAN
CONSTRUCTION
DOCUMENTS
04.21.2017**

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A1.17



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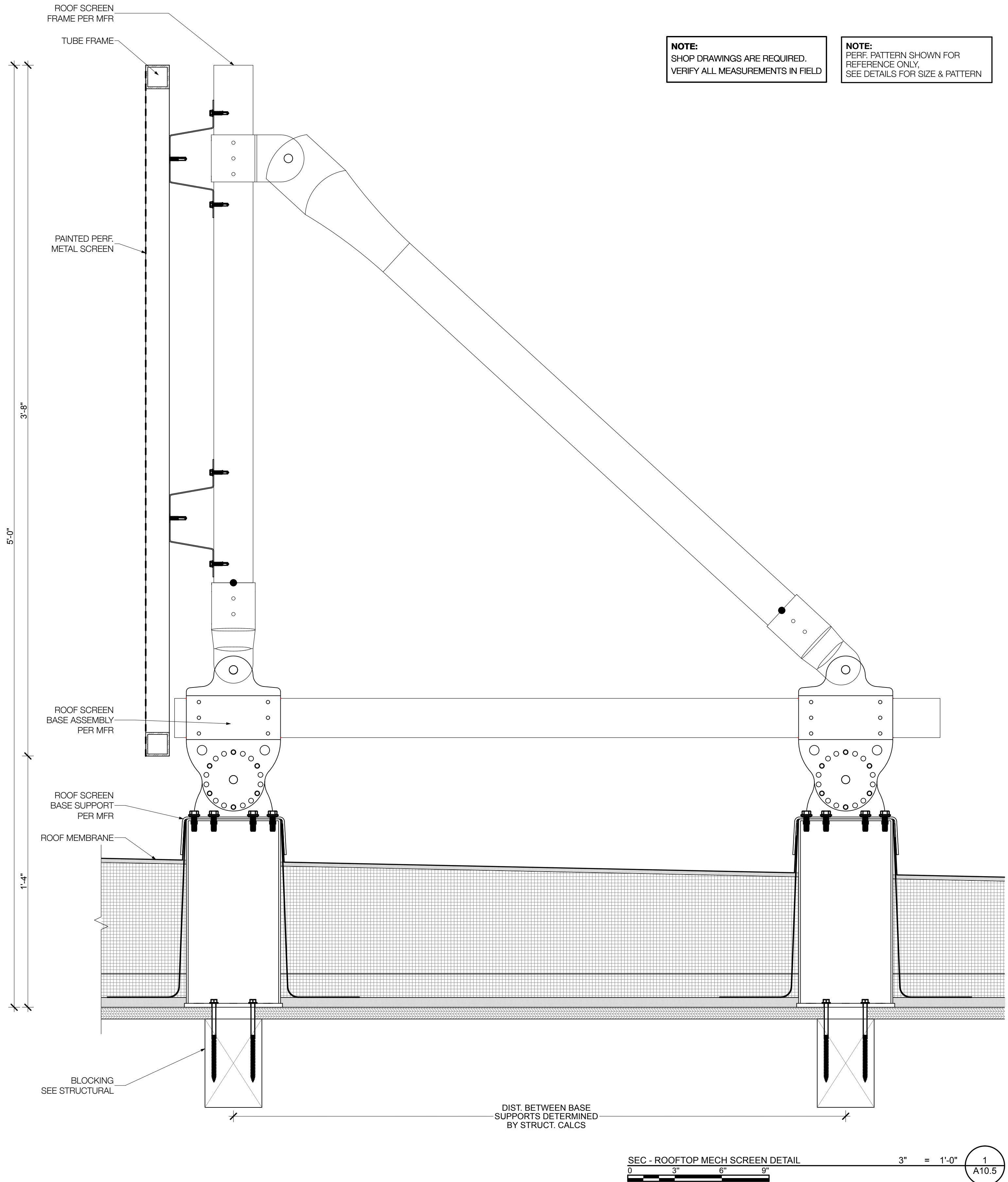
PROJECT #15171

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MARK DATE DESCRIPTION

**ROOFTOP MECH UNIT
SCREEN DETAILS
CONSTRUCTION
DOCUMENTS
04.21.2017**

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A10.5 02



LANDSCAPE

L2.1 STREETSCAPE PLAN

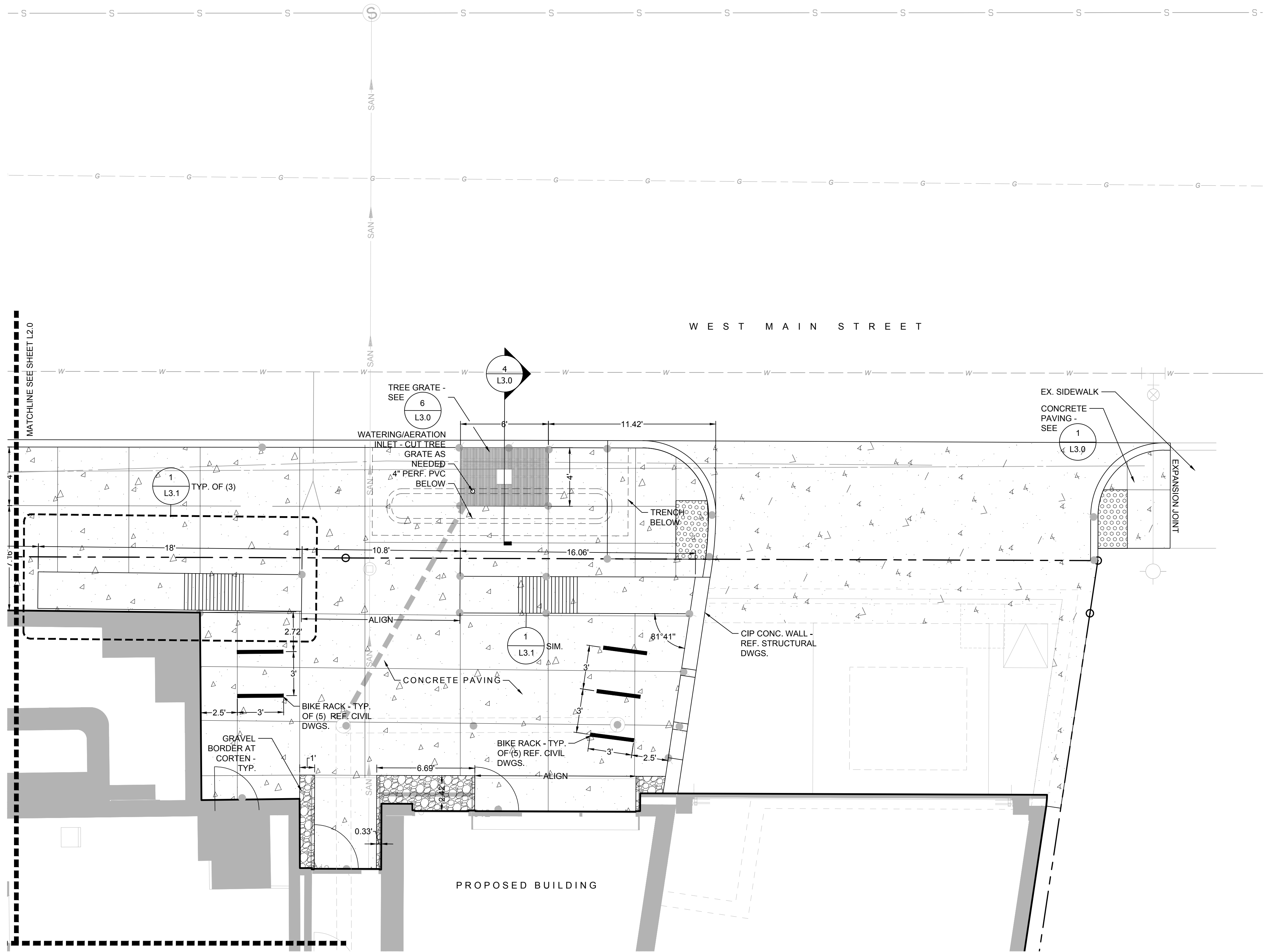
L3.0 DETAILS - TREE GRATE

L3.1 DETAILS - BENCHES

L4.0 PLANTING PLAN

PARKING RAMP SITE LINE STUDY

BIKE RACK CUT SHEET



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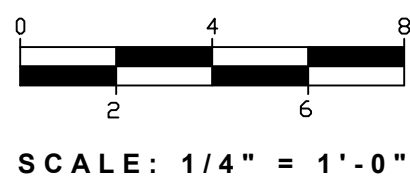
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**510-600 WEST
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CHARLOTTESVILLE, VA**

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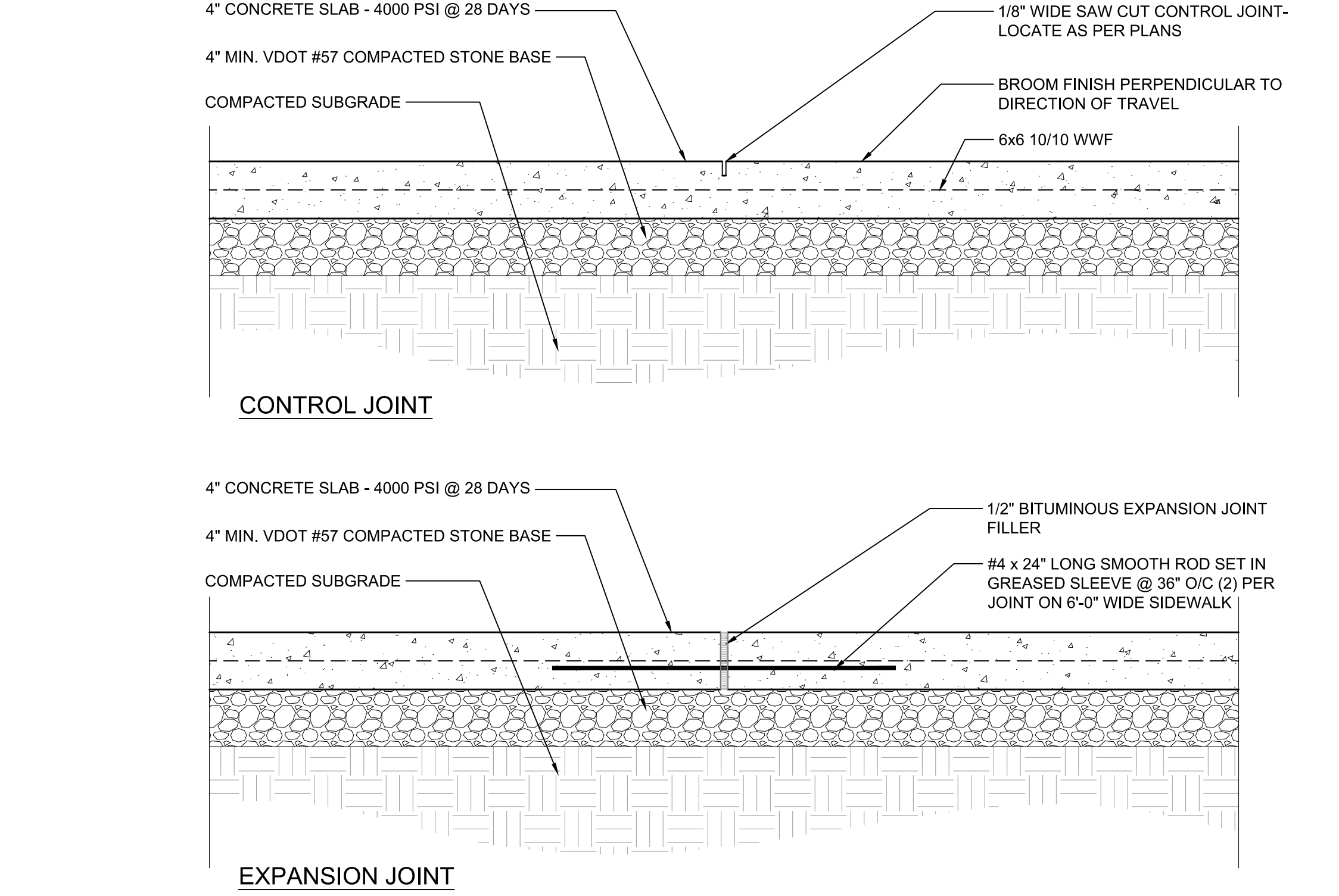
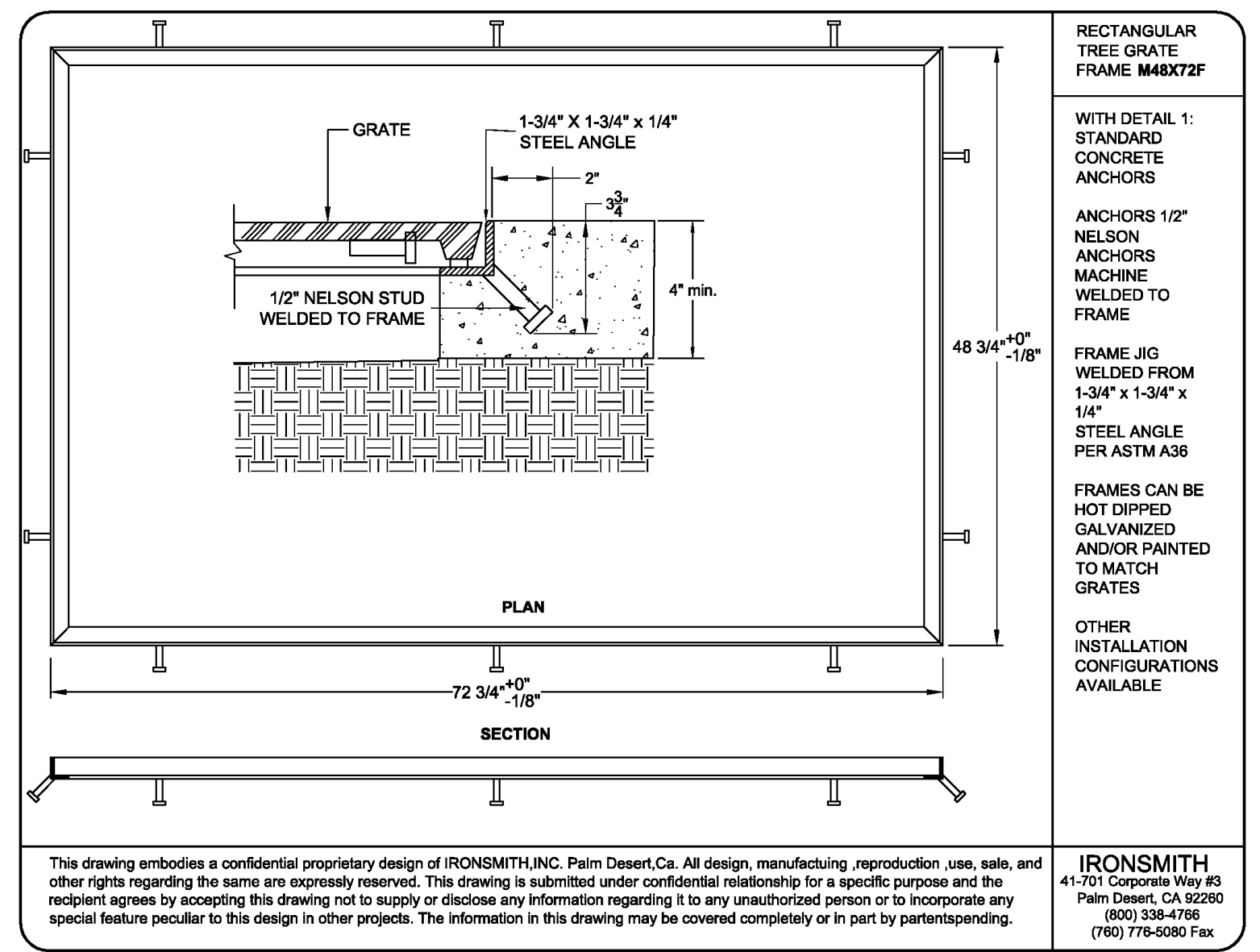
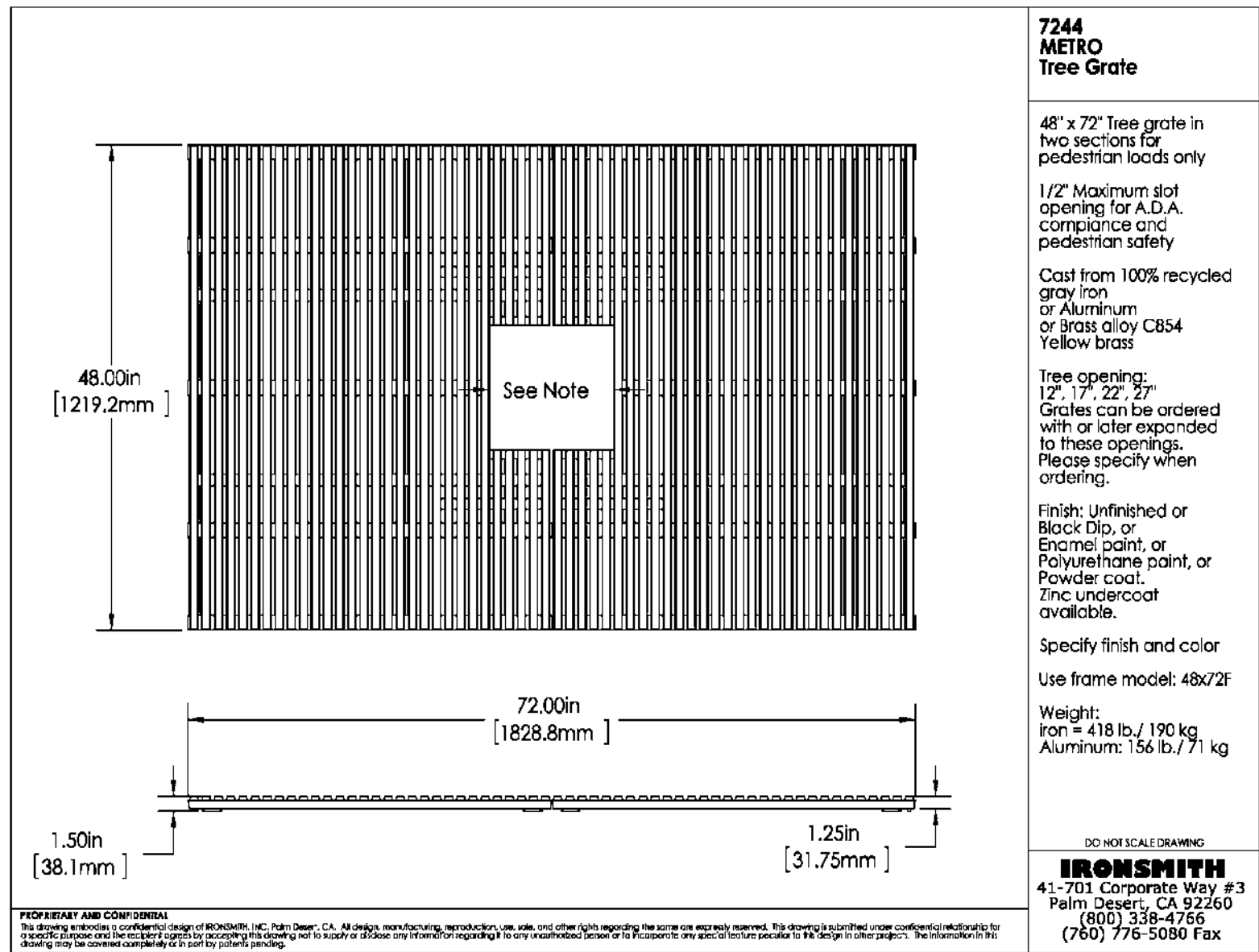
EDITIONS/REVS
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**STREETSCAPE DETAIL
LAYOUT AND
MATERIALS PLAN**

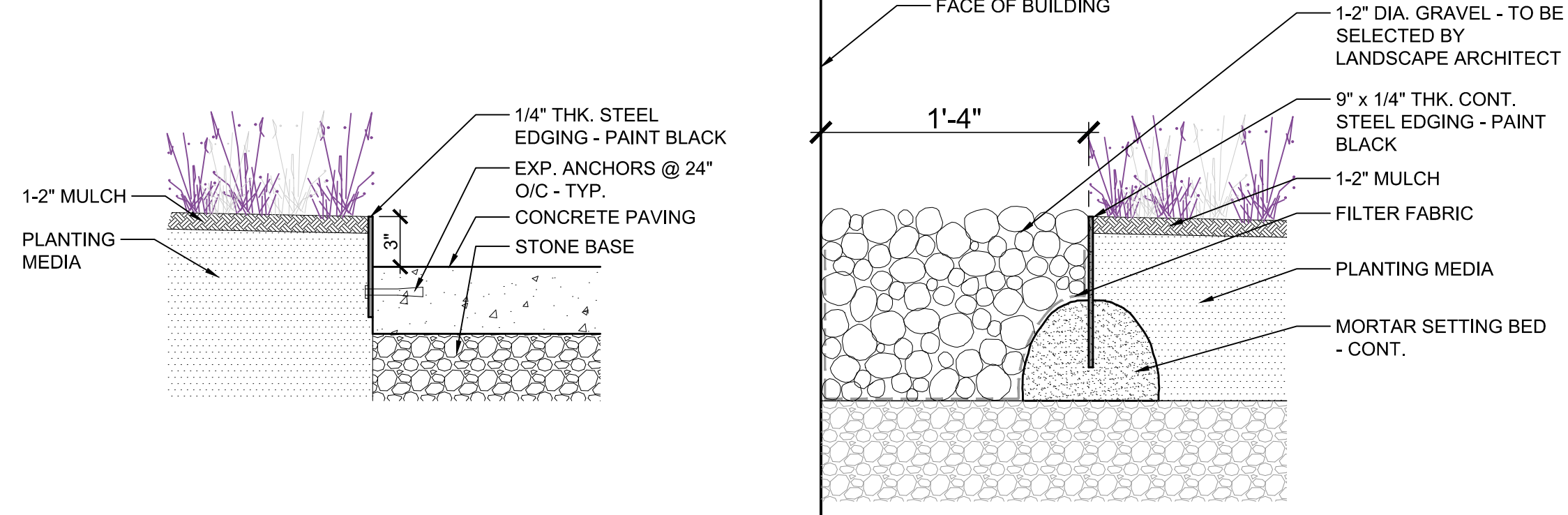
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DOCUMENTS**
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L2.1

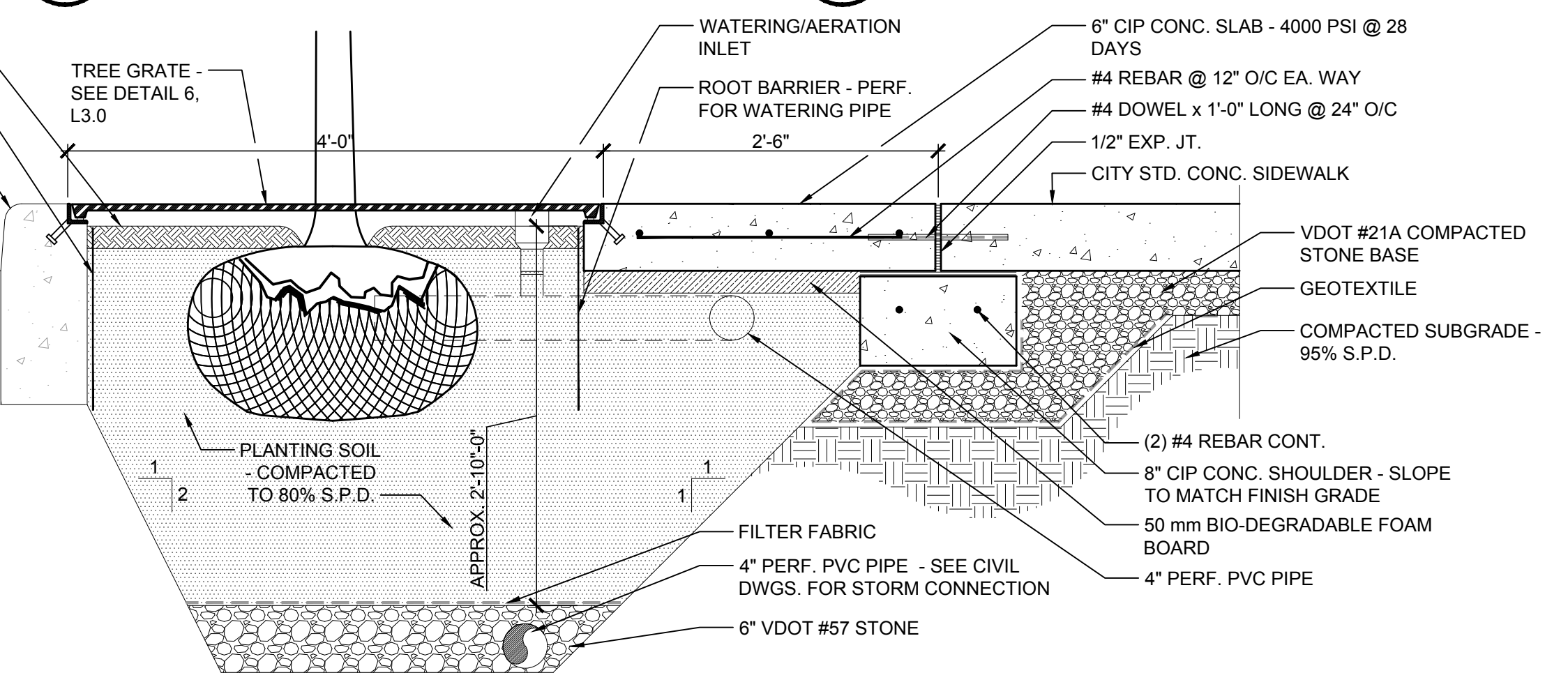


1 CONCRETE PAVING - SECTION
1 1/2" = 1'-0"



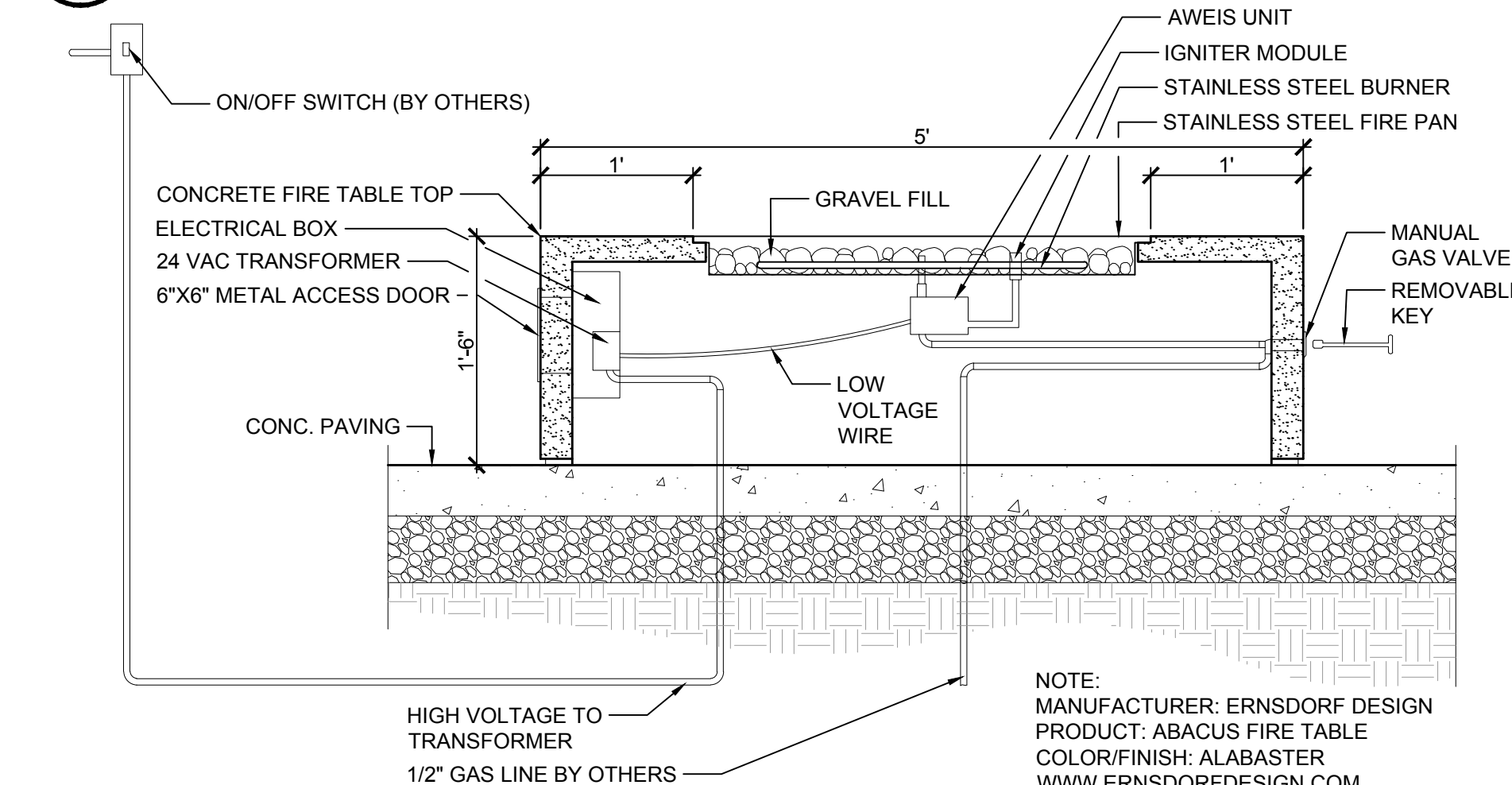
2 STEEL EDGING - SECTION
1 1/2" = 1'-0"

3 GRAVEL BORDER - SECTION
1 1/2" = 1'-0"



4 TREE WELL - SECTION
1" = 1'-0"

6 TREE GRATE
NOT TO SCALE



5 FIRE TABLE - SECTION
1" = 1'-0"

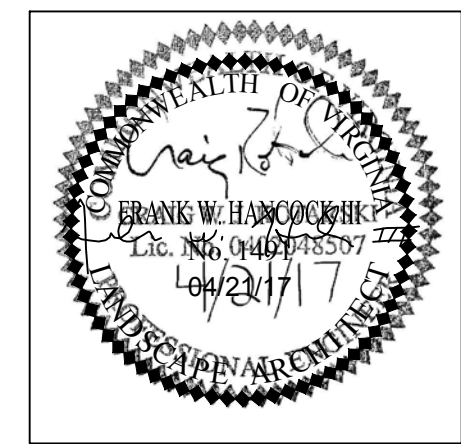
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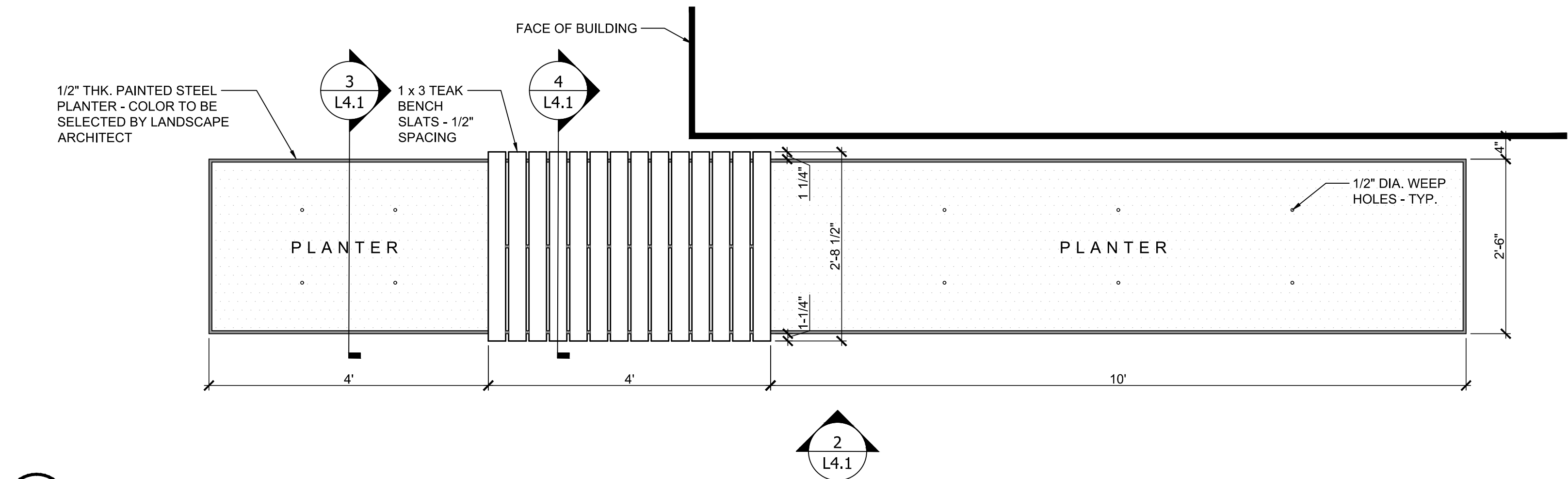
address:
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PROJECT #15171

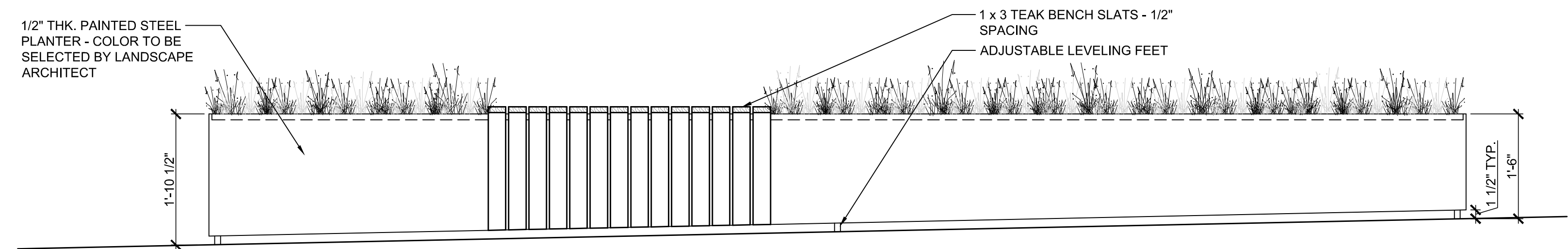
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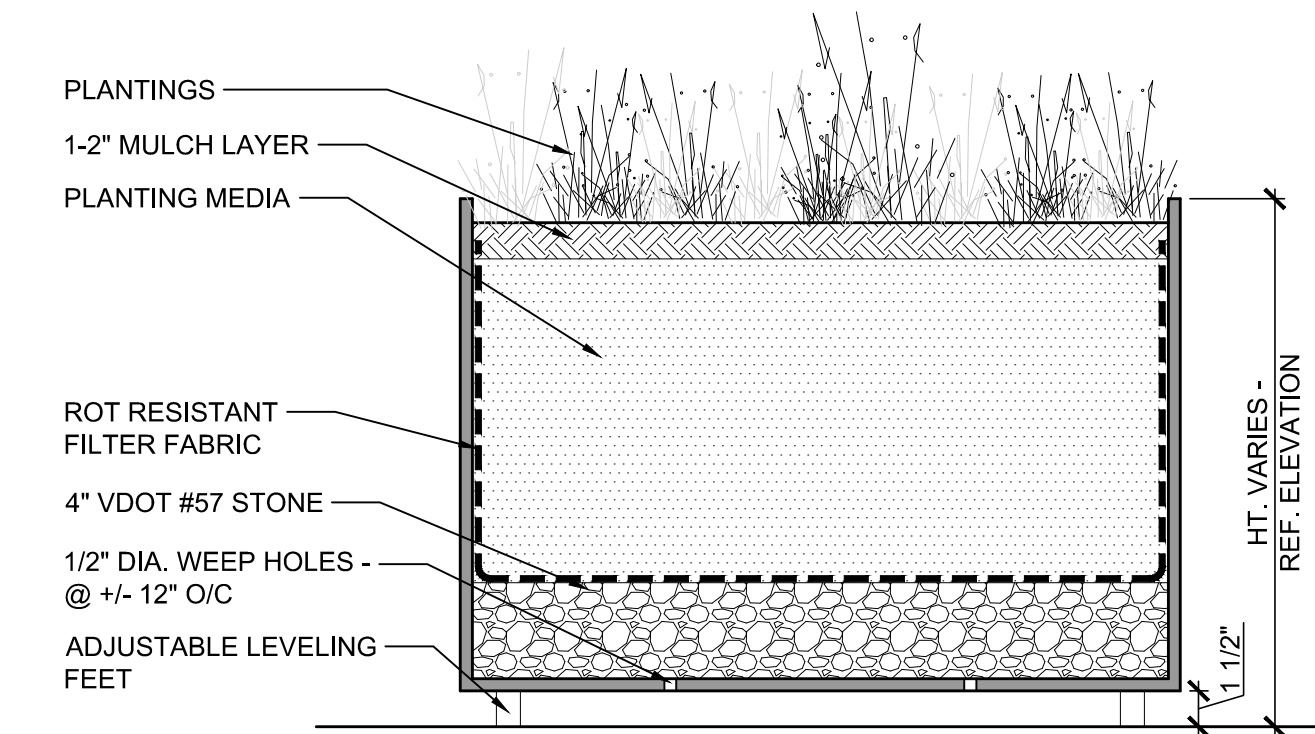
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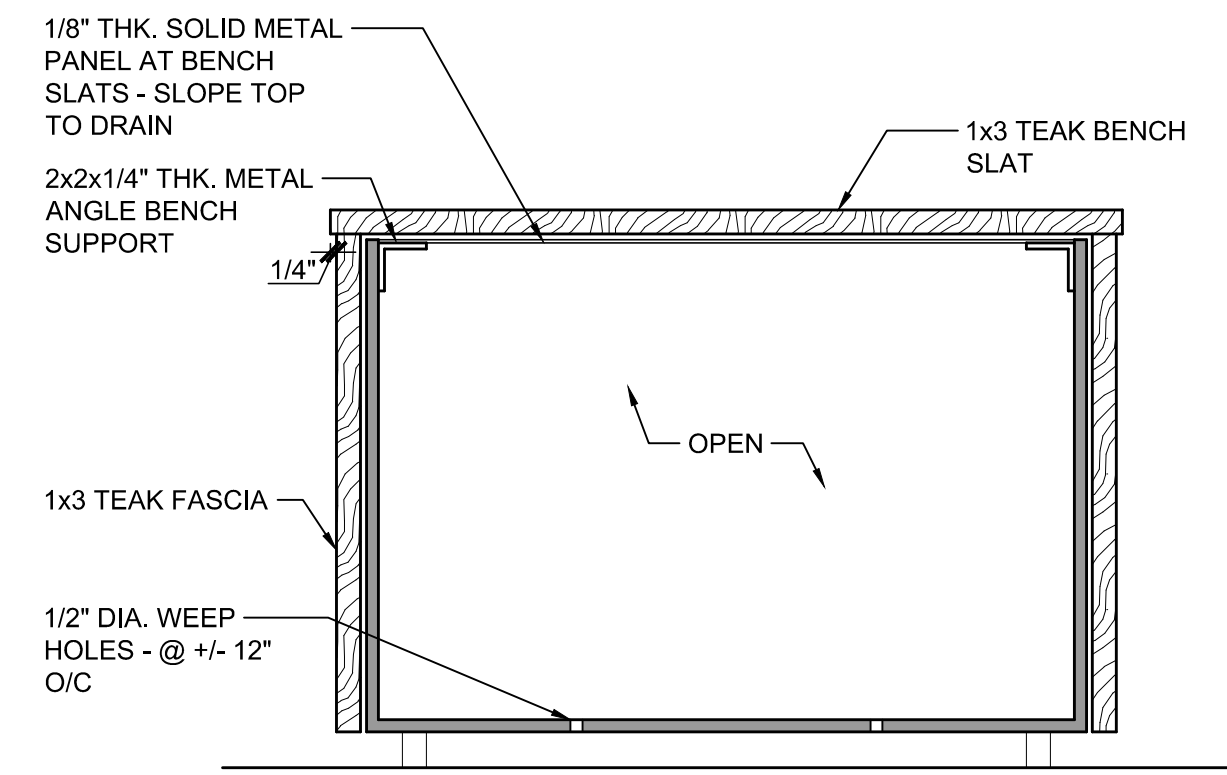
1 PLANTER - PLAN
3/4" = 1'-0"



2 PLANTER - ELEVATION
3/4" = 1'-0"



3 PLANTER - SECTION
1 1/2" = 1'-0"



4 PLANTER WITH BENCH - SECTION
1 1/2" = 1'-0"



TIMMONS GROUP

SIX HUNDRED WEST MAIN

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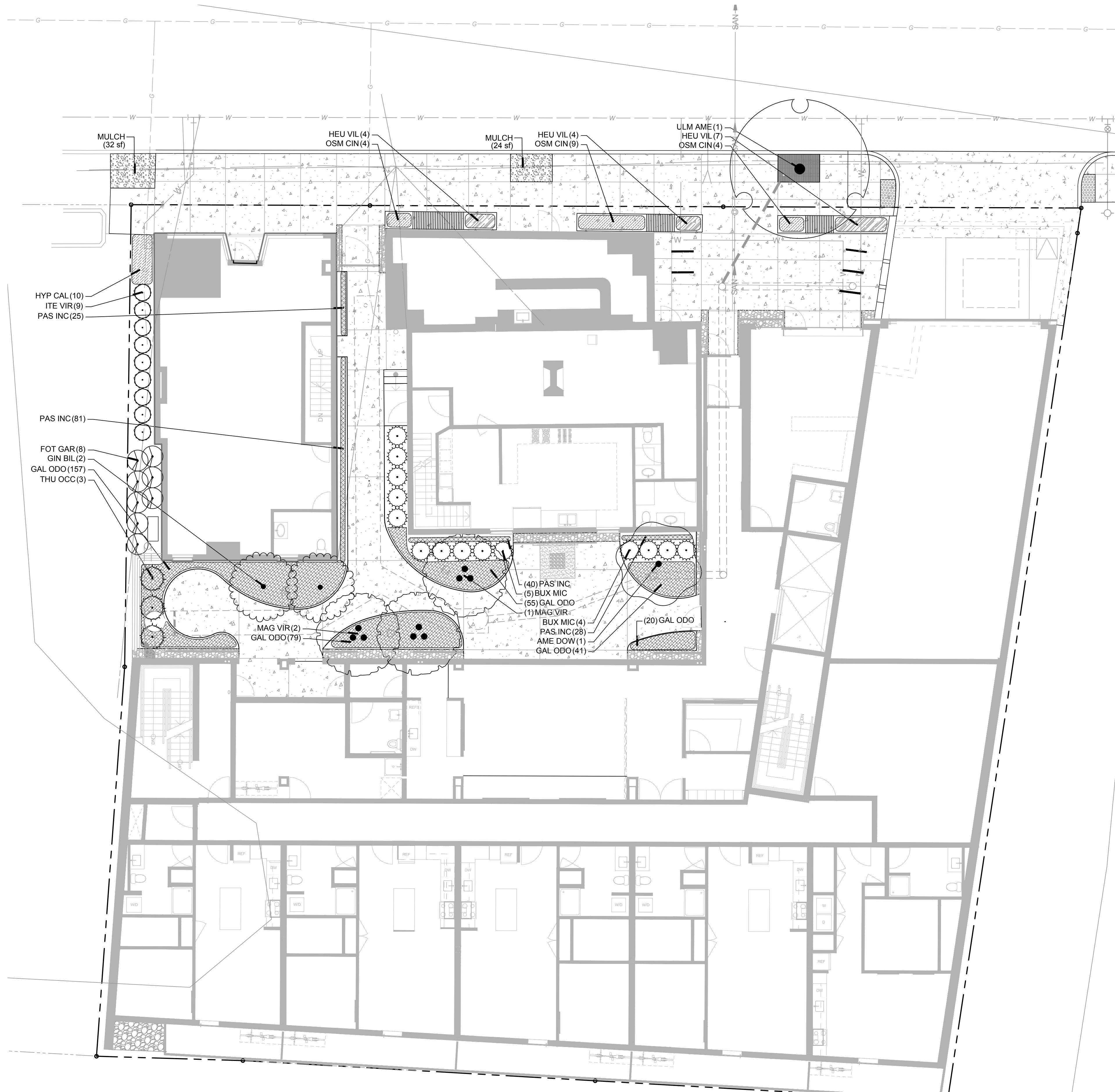
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DETAILS

CONSTRUCTION DOCUMENTS
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L3.1



PLANT KEY	
TREES	BOTANICAL NAME
AME DOW	AMELANCHIER ARBOREA
GIN BIL	GINKGO BILOBA 'PRINCETON SENTRY'
MAG VIR	MAGNOLIA VIRGINIANA
THU OCC	THUJA OCCIDENTALIS
ULM AME	ULMUS AMERICANA 'VALLEY FORGE'
SHRUBS	
BUX MIC	BUXUS MICROPHYLLA 'GREEN MOUNTAIN'
FOT GAR	FOTHERGILLA GARDENII 'SUZANNE'
ITE VIR	ITEA VIRGINICA 'LITTLE HENRY' TM
GROUND COVERS	
GAL ODO	GALIUM ODORATUM
HEU VIL	HEUCHERA VILLOSA 'AUTUMN BRIDE'
HYP CAL	HYPERICUM CALYCINUM
OSM CIN	OSMUNDA CINNAMOMEA
VINE	
PAS INC	PASSIFLORA INCARNATA



TIMMONS GROUP

SIX
HUNDRED
WEST
MAIN

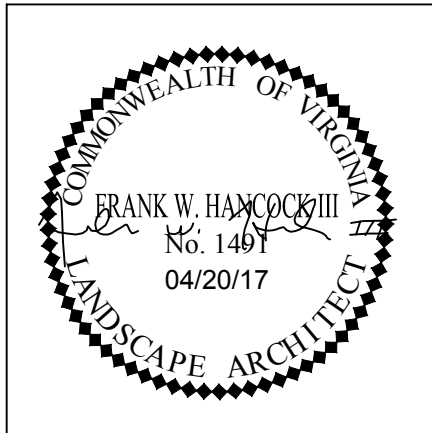
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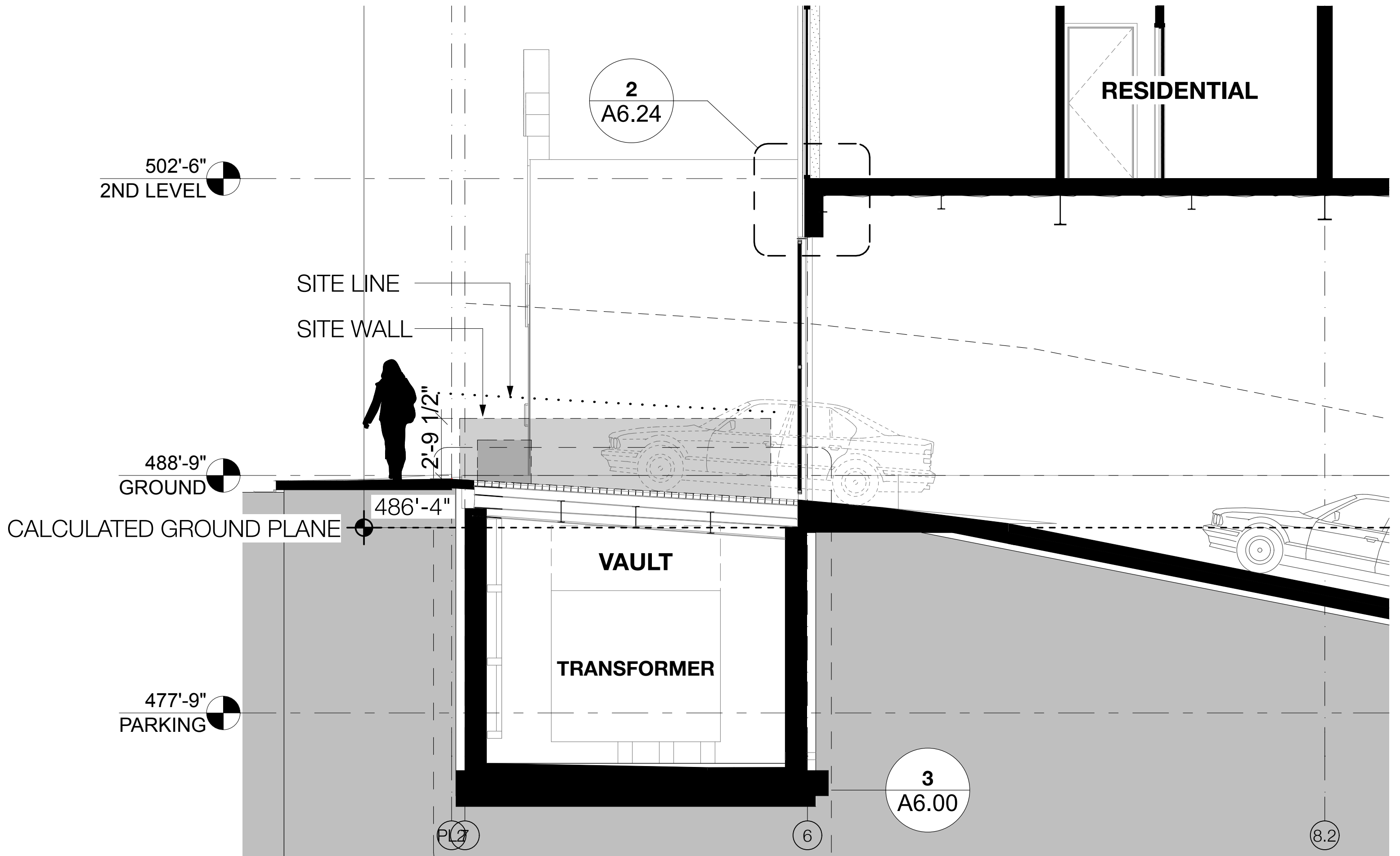
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LANDSCAPE PLAN

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L4.0



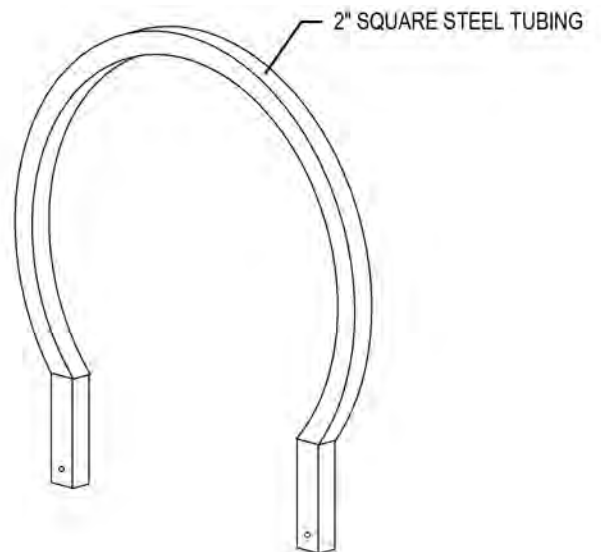
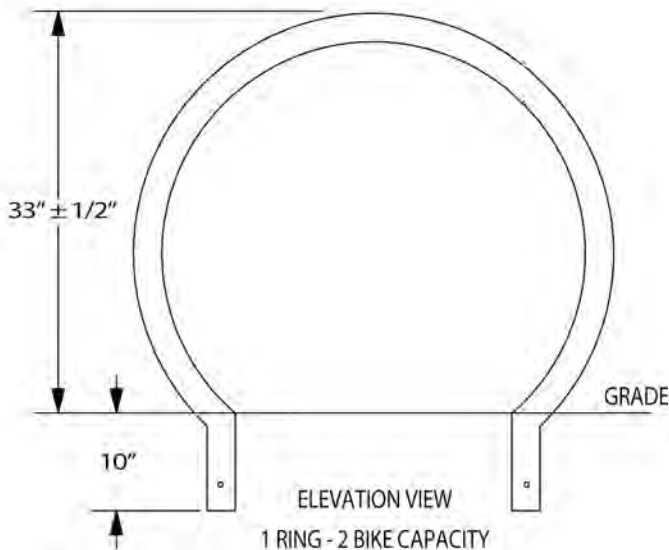
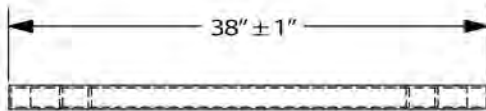


DURA BIKE RACKS

A DIVISION OF HANNAN SPECIALTIES INC.

Made in the USA

DIMENSION SHEET FOR MODEL : OMEGA-SQ-2-IG-P(G, or S) (Square Tube Circular Style Bicycle Rack)

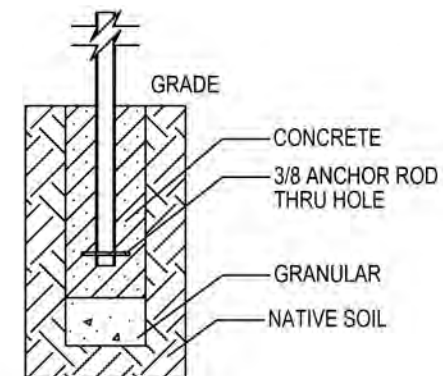


Mount Option:
☐ Surface Flange (SF) ☒ In Ground (IG)

Finish:
☒ Powder Coat (P) ☐ Hot-Dip Galvanized (G)
☐ Stainless Steel (S)

Powder Coat Color: ☐ Anti-Graffiti Clear Coat
☐ Black ☐ Silver Gray ☐ Emerald Green
☐ Pearl White ☐ Mesa Tan ☐ Celestial Blue
☒ Graphite ☐ Fire Engine Red

Rack Options:
☐ Lean Bar (LB)
☐ Lean Bar with Security Cables (SC)



IN GROUND MOUNT (IG)

Qty: _____ Approved Date: _____

Please Sign Here: _____

For Your Approval, This Is Used As A Submittal

www.durabikelocker.com

3790 BRADVIEW DR. - SACRAMENTO, CA 95827

(916) 363-7225 - (800) 722-BIKE (2453)

EXISTING BUILDING RENOVATIONS

A2.50 NORTH AND SOUTH ELEVATIONS

A2.51 EAST AND WEST MINI MART ELEVATIONS

A6.50 TRELLIS DETAILS

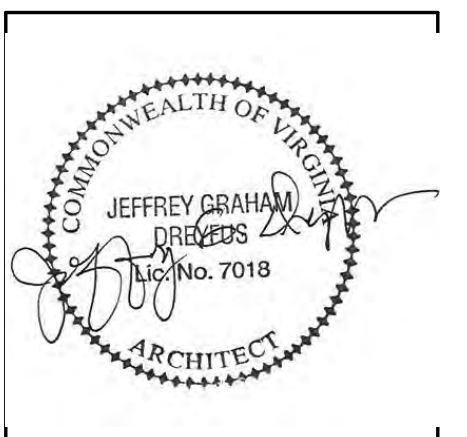
ARCHITECT
BUSHMAN DREYFUS ARCHITECTS PC
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434.295.1936

DEVELOPER
HEIRLOOM WEST MAIN DEVELOPMENT
c/o Grayson Consulting
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North Garden VA 22959

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MEP, FP ENGINEERS
STAENGL ENGINEERING
1159 Crozet Avenue, Suite A
Crozet, VA 22932

STRUCTURAL ENGINEER
Dunbar Milby Williams Pittman & Vaughan
110 Third Street
Charlottesville, VA 22902



address:
**510-600 WEST
MAIN STREET
CHARLOTTESVILLE, VA**

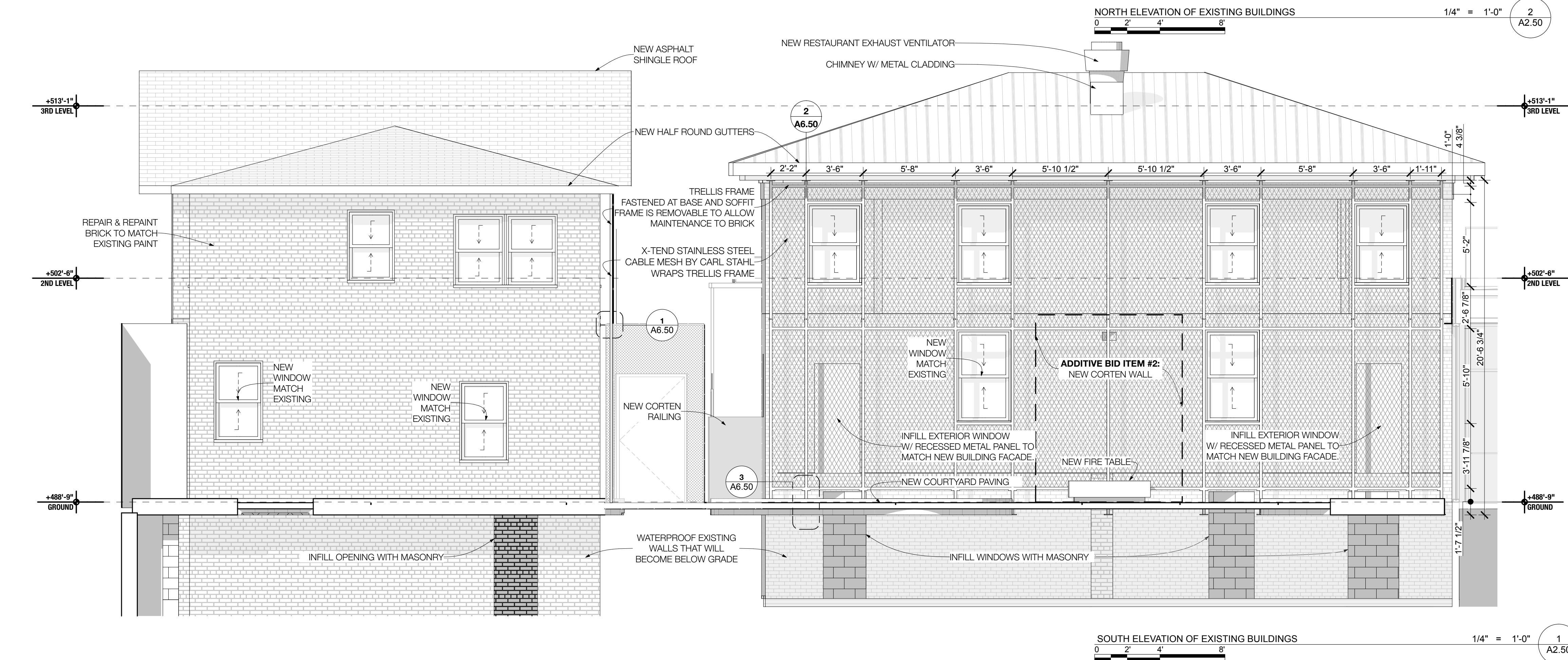
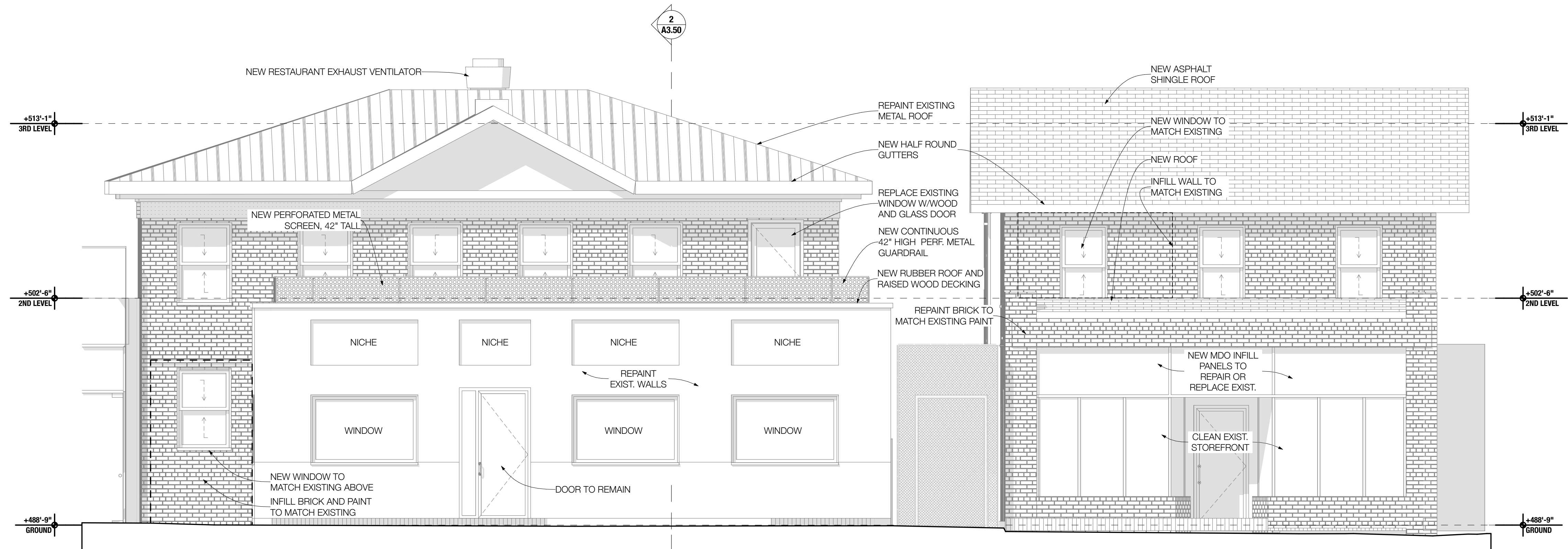
PROJECT #15171

EDITIONS/REVS
MARK DATE DESCRIPTION

**NORTH & SOUTH
ELEVATIONS OF EXSTG
BLDGS
CONSTRUCTION
DOCUMENTS
04.21.2017**

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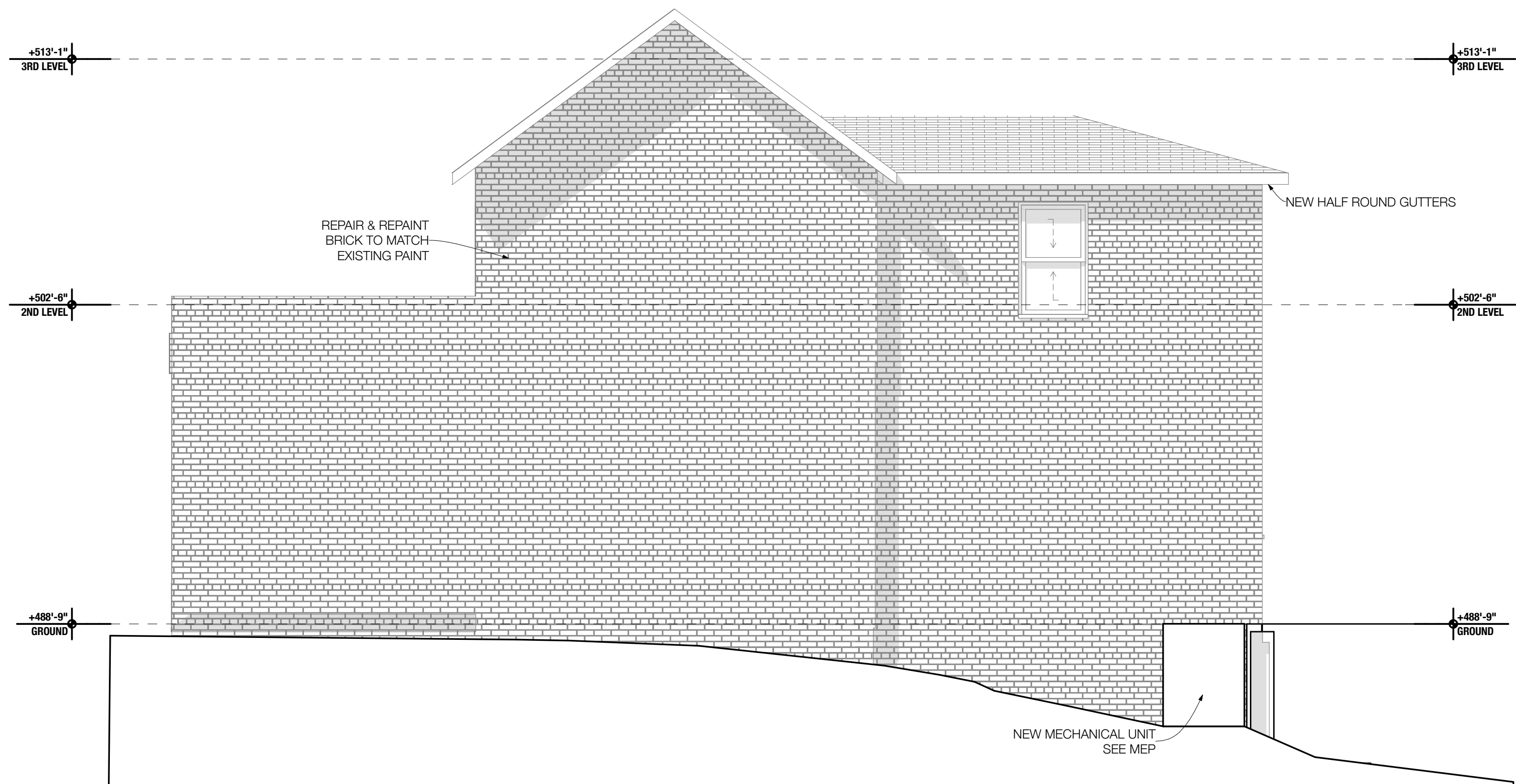
A2.50



NOTE:
PAINT TO MATCH EXISTING COLORS
UNPAINTED BRICK TO REMAIN UNPAINTED



ELEVATION - EXISTING MINI MART EAST WALL
1/4" = 1'-0" 2 A2.51



ELEVATION - EXISTING MINI MART WEST WALL
1/4" = 1'-0" 1 A2.51

NOTE: PAINT TO MATCH EXISTING COLORS
UNPAINTED BRICK TO REMAIN UNPAINTED

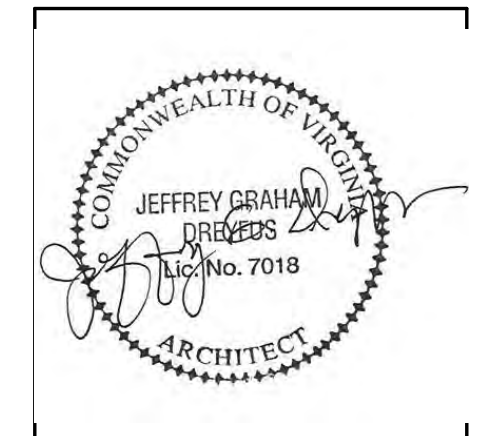
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address:
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MAIN STREET
CHARLOTTESVILLE, VA**

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**EAST & WEST
ELEVATIONS OF MINI
MART
CONSTRUCTION
DOCUMENTS
04.21.2017**

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A2.51

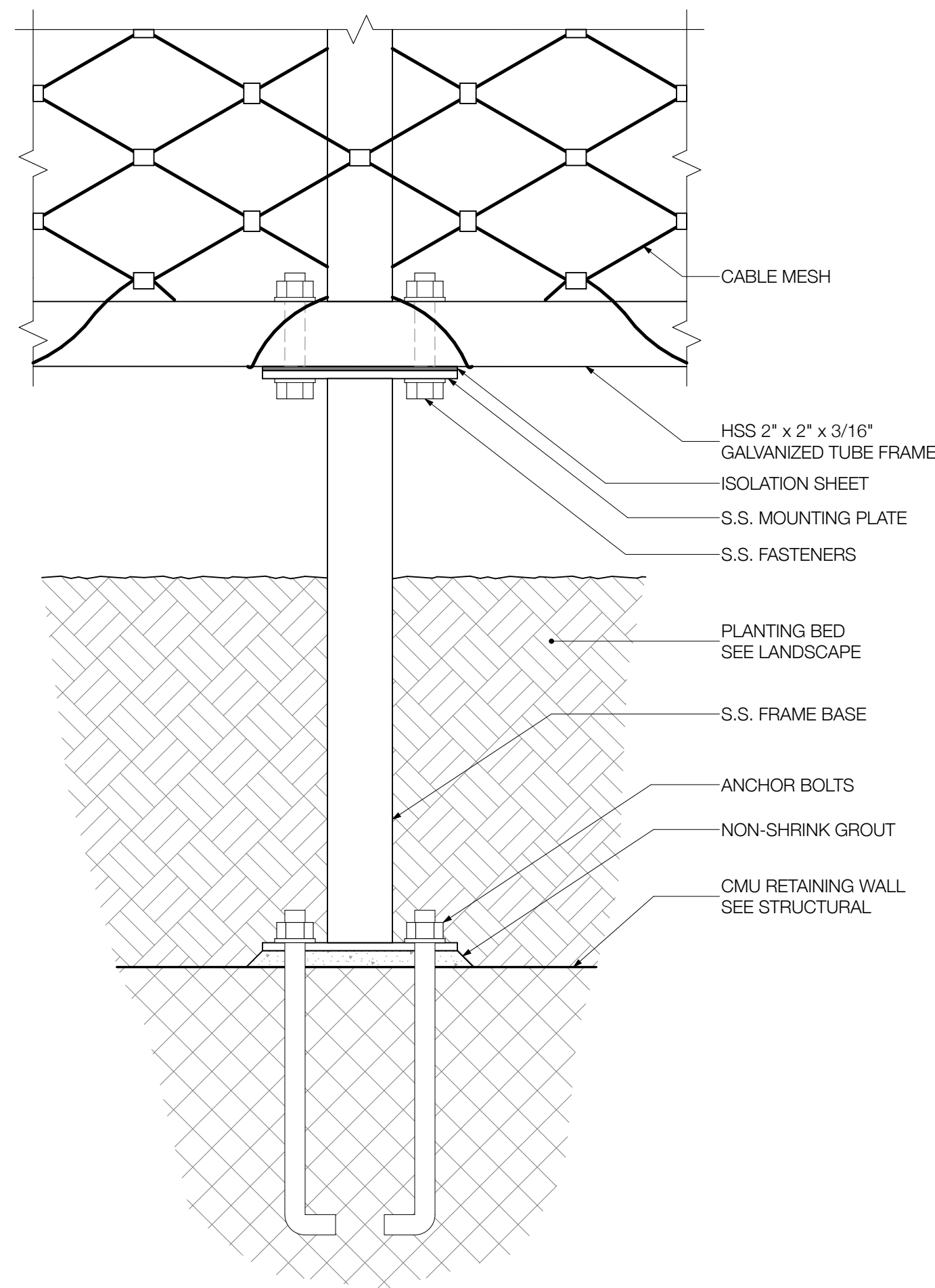
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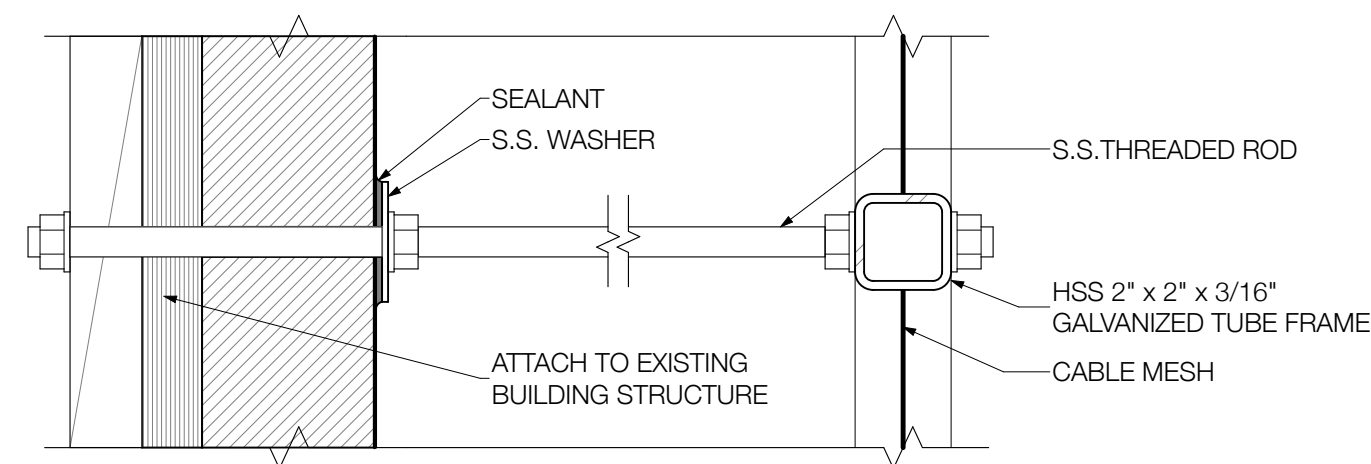
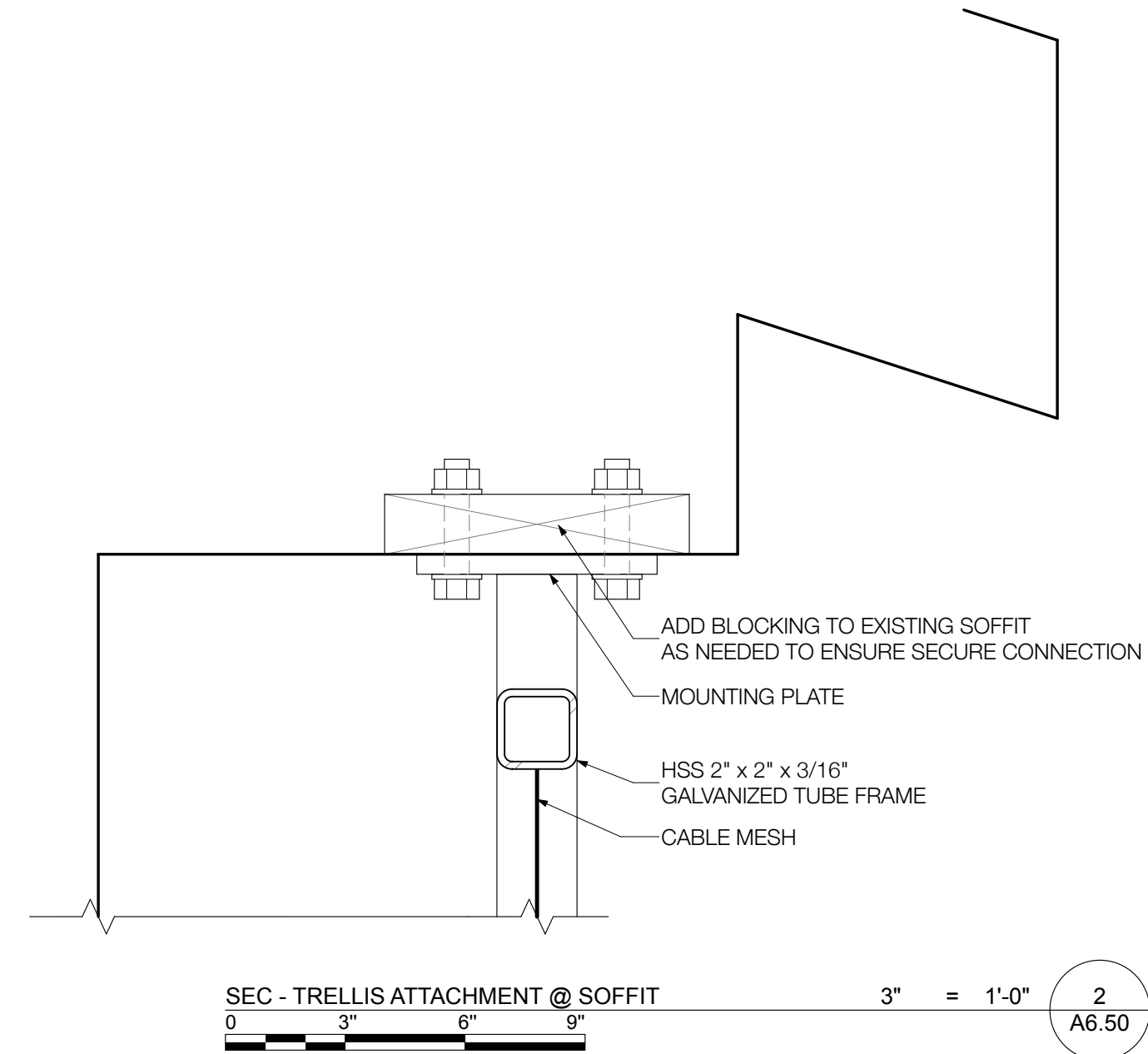
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TRELLIS FRAME FOOTING

3" = 1'-0"

3
A6.50



address:
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PROJECT #15171

EDITIONS/REVS

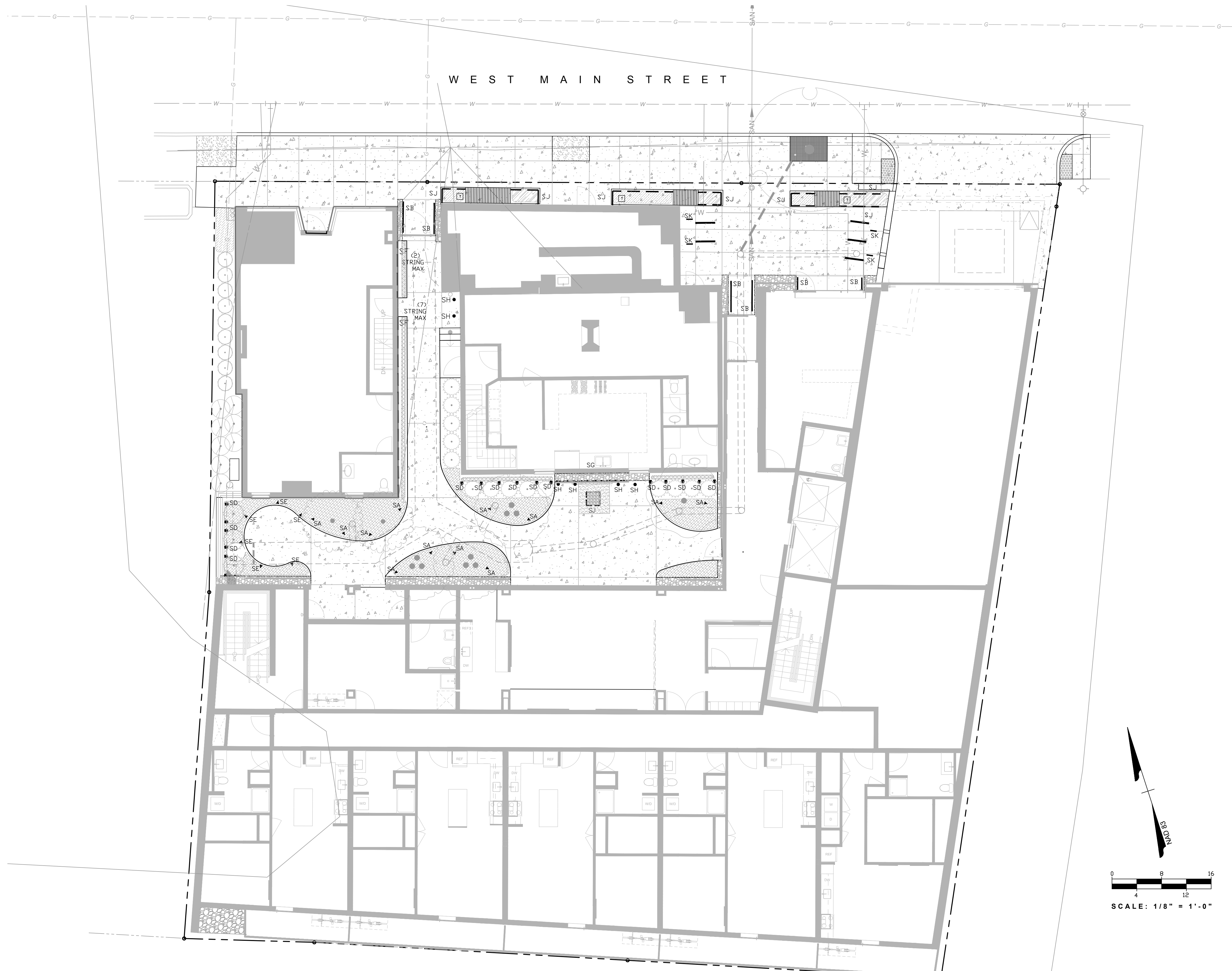
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**TRELLIS DETAILS
CONSTRUCTION
DOCUMENTS
04.21.2017**

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LIGHTING

L6.0 LANDSCAPE LIGHTING PLAN



TIMMONS GROUP

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PROJECT #15171

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SITE LIGHTING PLAN

CONSTRUCTION
DOCUMENTS
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L6.0