

Burlington Development Review Board

Department of Permitting & Inspections
645 Pine Street
Burlington, VT 05401
www.burlingtonvt.gov/DPI/DRB
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AJ LaRosa
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Geoff Hand
Sean McKenzie
Brad Rabinowitz
Leo Sprinzen
Chase Taylor
Marina Campbell, (Alternate)
Evan Gould, (Alternate)



Development Review Board

Tuesday, April 16, 2024, 5:00 PM

645 Pine Street, Front Conference Room or Remote on Zoom:

Please click the link below to join the webinar:

Zoom: <https://us02web.zoom.us/j/83225696227?pwd=SGQ0bTdnS000Wkc3c2J4WWw1dzMxUT09>

Webinar ID: 832 2569 6227

Passcode: 969186

Telephone: US +1 929 205 6099 or +1 301 715 8592 or +1 312 626 6799 or +1 669 900 6833 or +1 253 215 8782 or +1 346 248 7799

1. Agenda

2. Communications

3. Minutes

4. Certificate of Appropriateness

4.1.

ZP-24-55; 387 Maple Street (I, Ward 8) Champlain College, Inc. / Nic Anderson

Proposed expansion of existing vestibule in front of Joyce Hall to create additional space. (Project Manager, Garret King)

5. Adjournment

6. Informational and Non-Discrimination Statements

6.1.

Plans may be viewed upon request by contacting the Department of Permitting & Inspections between the hours of 8:00 a.m. and 4:30 p.m. Participation in the DRB proceeding is a prerequisite to the right to take any subsequent appeal. Please note that ANYTHING submitted to the Zoning office is considered public and cannot be kept confidential. This may not be the final order in which items will be heard. Please view final Agenda, at www.burlingtonvt.gov/dpi/drb/agendas or the office notice board, one week before the hearing for the order in which items will be heard.

The City of Burlington will not tolerate unlawful harassment or discrimination on the basis of political or religious affiliation, race, color, national origin, place of birth, ancestry, age, sex, sexual orientation, gender identity, marital status, veteran status, disability, HIV positive status, crime victim status or genetic information. The City is also committed to providing proper access to services, facilities, and employment opportunities. For accessibility information or alternative formats, please contact Human Resources Department at (802) 540-2505.

Department of Permitting & Inspections

Zoning Division
645 Pine Street
Burlington, VT 05401
Telephone: (802) 865-7188

William Ward, Director
Scott Gustin, AICP, CFM, Principal Planner
Mary O'Neil, AICP, Principal Planner
Garret King, Associate Planner
Joseph Cava, Permit Technician
Steve Cormier, Code Compliance Officer
Ted Boylan, DPI Administrator



TO: Development Review Board
FROM: Garret King
DATE: April 16th, 2024
RE: ZP-24-55; 387 Maple Street

=====

Note: These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.

Zone: I Ward: 8

Owner/Applicant: Champlain College Inc. / Nic Anderson

Request: Proposed expansion to existing 450 sq. ft. vestibule in front of Joyce Hall with 750 sq. ft. of additional space.

Applicable Regulations:

Article 4 (Maps & Districts), Article 5 (Citywide General Regulations), Article 6 (Development Criteria & Guidelines).

Background Information:

Applicant is looking to remove the current vestibule on the front of Joyce Hall and replace it with a larger 750 sq. ft. vestibule.

Champlain College is a school, as such, it is subject only to limited zoning review per 24 V.S.A. §4413. The statute limits zoning review to location, size, height, building bulk, yards, courts, setbacks, density of buildings, off-street parking, loading facilities, traffic, noise, lighting, landscaping, and screening requirements, and only to the extent that regulations do not have the effect of interfering with the intended functional use.

Previous Zoning Permits:

2/20/2024	ZP-19-396: Add a/c unit at the back of Joyce Hall
3/8/2017	ZP-17-113: Window replacement and re-siding west elevation of Joyce Hall
10/31/2013	ZP-13-846: Interior alteration on first floor of Joyce Hall to convert bookstore to three teaching spaces: construction of enclosed vestibule at front of building.
4/13/2000	ZP-00-162: Replace existing metal fire escape with a three story enclosed stair tower (Matching materials) for the existing pearl hall dorm.
1/10/2000	ZP-00-12: Amend previously approved second story addition to the existing college office building to include an interior elevator and new foundations
4/1/1999	ZP-1999-120: Second story addition to the existing college office building.
3/30/1999	ZPHS-202: Conditional use for admin/faculty offices for Champlain College.

Recommendation: Consent approval as per, and subject to, the following findings and conditions:

I. Findings

Article 4: Maps & Districts

Sec. 4.4.4, Intuitional District:

(a) Purpose

See Sec. 4.5.2 (g) District Specific Regulations: Champlain College.

(b) Dimensional Standards and Density

See Sec. 4.5.2 (g) District Specific Regulations: Champlain College.

(c) Permitted & Conditional Uses

See Sec. 4.5.2 (g) District Specific Regulations: Champlain College.

Sec. 4.5.2 Institutional Core Campus Overlay Districts:

(a) Purpose

The Institutional Core Campus Overlay (ICC) districts are intended to provide for reasonable future growth for institutions within the core of their respective campuses without further intrusion into surrounding residential neighborhoods. This overlay allows increased development than would typically be found in the underlying districts. Development is intended to be more intense than the surrounding neighborhoods with higher lot coverage and larger buildings. New development should provide sensitive transitions to the historic development pattern and scale of the surrounding campus. Buildings both large and small should be designed with a high level of architectural detailing to provide visual interest and create enjoyable, human-scale spaces. Sites should be designed to be pedestrian friendly and encourage walking between buildings. Circulation should largely emphasize the needs of pedestrians and bicycles, and parking should be very limited and generally provided offsite. Where parking is provided, it should be hidden either within or underneath structures.

Champlain College is one of the institutions with a related Core Campus Overlay, the proposed work is designed to fit into the existing design and materials that are currently present.

(Affirmative Finding)

(b) Areas Covered

5. Champlain College (ICC-CC) allows for an increased development scale and intensity than would typically be found in the adjoining and underlying districts to support the long-term development of this small educational institution. Similar to the ICC-UVM, this core campus would be expected to be dominantly pedestrian-oriented, with all but the most essential parking provided off-site. Development within this core campus should reflect the both institution's core educational values and the character of this historic residential neighborhood in both design and quality.

The proposed vestibule will function the same as the current vestibule, the new vestibule will be larger, the proposal fits within the districts intent. **(Affirmative Finding)**

(g) District Specific Regulations: Champlain College (ICC -CC)

1. Lot coverage

Lot coverage for this project is calculated across the entire district. For Champlain College nine lot parcels contribute to the total coverage. Current lot coverage is 58.3% and the new addition at 266sf of new coverage will increase the lot coverage to 58.37%. The new lot coverage will remain under the maximum 60% permitted.

(Affirmative Finding)

2. Setbacks

The proposed work is within the center of the developed area and is inside the required 20ft peripheral setback. **(Affirmative Finding)**

3. Surface Parking

Not Applicable

4. Density

This addition takes place in the Academic Core Campus section of the Champlain College overlay that limits Floor Area Ratio (FAR) to a maximum of 1.1 for this project. The Floor Area Ratio will increase to 0.82 and remain under the maximum permitted. **(Affirmative Finding)**

Article 5: Citywide General Regulations

Sec. 5.2.3, Lot Coverage Requirements

See Sec. 4.5.2 above

Sec. 5.2.4, Buildable Area Calculation

Not applicable

Sec. 5.2.5, Setbacks

See Sec. 4.5.2 above.

Sec. 5.2.6, Building Height Limits

See Sec. 4.4.4 above.

Sec. 5.2.7, Density and Intensity of Development Calculations

See Sec 4.5.2 above.

Sec. 5.4.8 Historic Buildings and Sites

(a). Applicability.

Not applicable per VSA 24, Sec. 4413.

Sec. 5.5.1, Nuisance Regulations

The proposed project should not create any nuisance. **(Affirmative Finding)**

Sec. 5.5.2, Outdoor Lighting

Lighting is proposed around the perimeter of the new vestibule, new lighting fixtures are all low output and meet full cut off or recessed requirements. **(Affirmative Finding)**

Sec. 5.5.3, Stormwater and Erosion Control

Over 400sf of land disturbance is proposed so the applicant will need to apply and submit an Erosion Prevention and Sediment Control plan to water resource for review. **(Affirmative Finding as Conditioned)**

Article 6: Development Review Standards

Part 1, Land Division Design Standards

Not applicable

Part 2, Site Plan Design Standards

Sec. 6.2.2, Review Standards

(a) Protection of important natural features

Not applicable

(b) Topographical alterations

Not applicable per VSA 24, Sec. 4413.

(c) Protection of important public views

Not applicable per VSA 24, Sec. 4413.

(d) Protection of important cultural resources

Not applicable per VSA 24, Sec. 4413.

(e) Supporting the use of alternative energy

Not applicable

(f) Brownfield sites

Not applicable per VSA 24, Sec. 4413.

(g) Provide for nature's events

The proposed plan has a flat roof for the vestibule to prevent the shedding of snow and ice.

(Affirmative Finding)

(h) Building Location and Orientation

The proposed vestibule will be on the front of Joyce Hall facing the center of the courtyard, orientation of the building remains unchanged. No changes will be seen from the public street.

(Affirmative Finding)

(i) Vehicular access

Not applicable per VSA 24, Sec. 4413.

(j) Pedestrian access

Not applicable per VSA 24, Sec. 4413.

(k) Accessibility for the handicapped

Not applicable per VSA 24, Sec. 4413. Applicable accessibility requirements under the City's buildings code continue to apply. **(Affirmative Finding as Conditioned)**

(l) Parking and circulation

Not Applicable

(m) Landscaping, fences, and retaining walls

Not applicable.

(n) Public plazas and open space

Not applicable

(o) Outdoor lighting

See Sec. 5.5.2 above.

(p) Integrate infrastructure into the design

No changes to infrastructure are proposed. **(Affirmative Finding)**

Part 3, Architectural Design Standards

Sec. 6.3.2, Review Standards

(a) Relate development to its environment

1. Massing, Height, and Scale

The larger vestibule will increase scale with the additional length wrapping around the north edge of the building. The proposed vestibule will have minimal massing. Only a single story vestibule is proposed at 11ft 6 inches to the top of the roof. The vestibule will be modest in scale when compared to the surrounding buildings. **(Affirmative Finding)**

2. Roofs and Rooflines

Not applicable per VSA 24, Sec. 4413.

3. Building Openings

Not applicable per VSA 24, Sec. 4413.

(b) Protection of important architectural resources

Not applicable per VSA 24, Sec. 4413.

(c) Protection of Important Public Views

Not applicable per VSA 24, Sec. 4413.

(d) Provide an active and inviting street edge

Not applicable per VSA 24, Sec. 4413.

(e) Quality of materials

Not applicable per VSA 24, Sec. 4413.

(f) Reduce energy utilization

Not applicable per VSA 24, Sec. 4413.

(g) Make advertising features complimentary to the site

Not applicable

(h) Integrate infrastructure into the building design

No exterior infrastructure is included in the project plans. If any is proposed, it will have to be shown on the project plans and screened to integrate into the overall design and materials of the building. **(Affirmative Finding as Conditioned)**

(i) Make spaces safe and secure

Proposed building must comply with the city's current egress requirements. Building entries will be illuminated. **(Affirmative Finding as conditioned)**

II. Conditions of Approval

1. **Prior to the release of the Zoning Permit** the applicant shall submit EPSC plans to Water Resources for review.
2. The applicant is required to ensure ADA access meets all Vermont Fire and Building Safety Code per Building Permits.
3. Vermont Commercial Building Energy Standards apply to this project. Compliance with the standards is the Owner's responsibility. For more information, see http://publicservice.vermont.gov/energy_efficiency.
4. If any exterior infrastructure is installed it will be required to be screened to integrate into the overall design and materials of the vestibule.
5. The Applicant/Property Owner is responsible for obtaining all necessary Zoning Permits and Building Permits through the Department of Public Works as well as other permit(s) as may be required, and shall meet all energy efficiency codes of the city and state.
6. Standard permit conditions 1-15.



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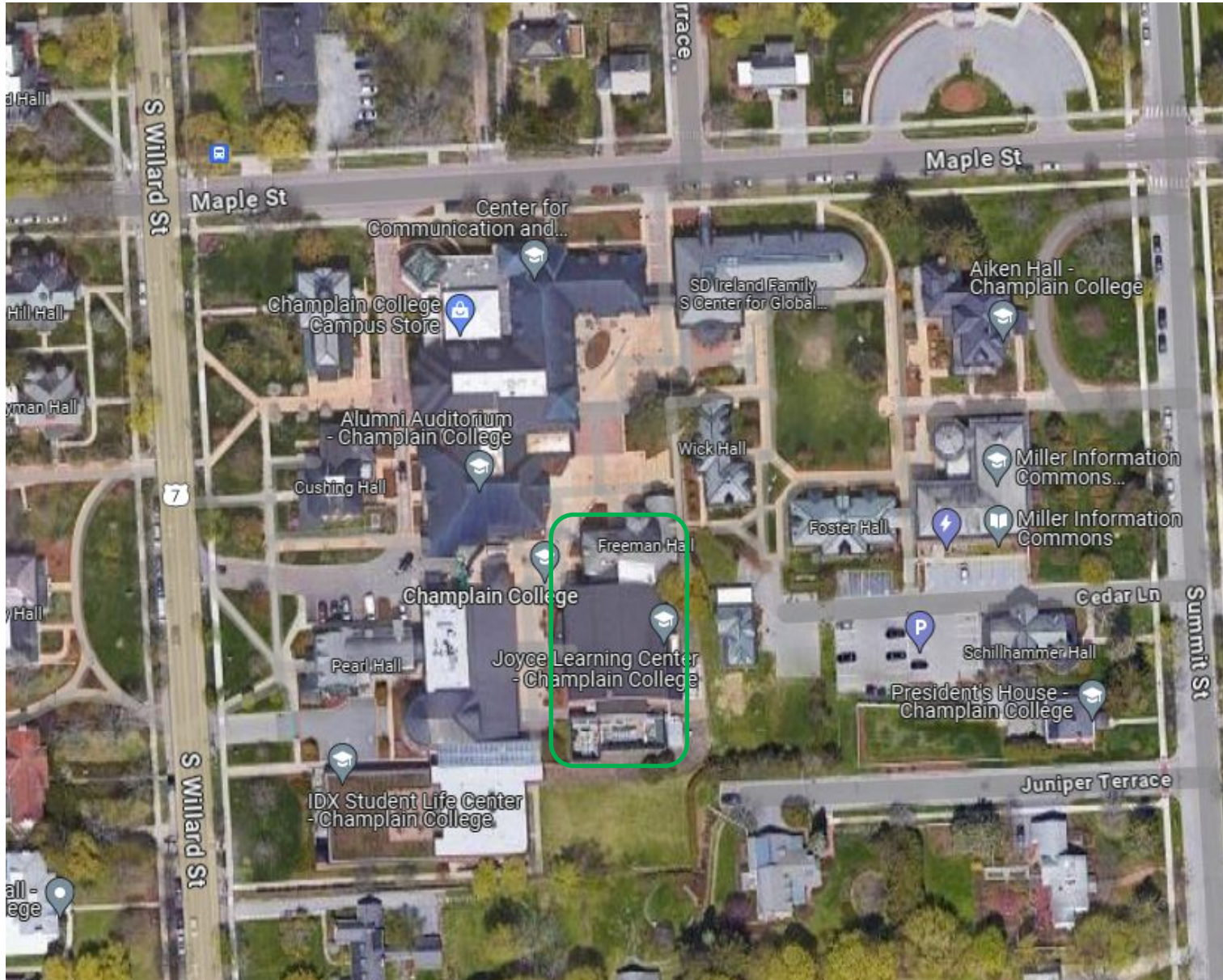
STEAM Center at Freeman and Joyce Halls

Visual Summary of STEAM Center planning





Core Campus Overview





Aerial View of Location





Photographs of Existing Joyce Vestibule Location



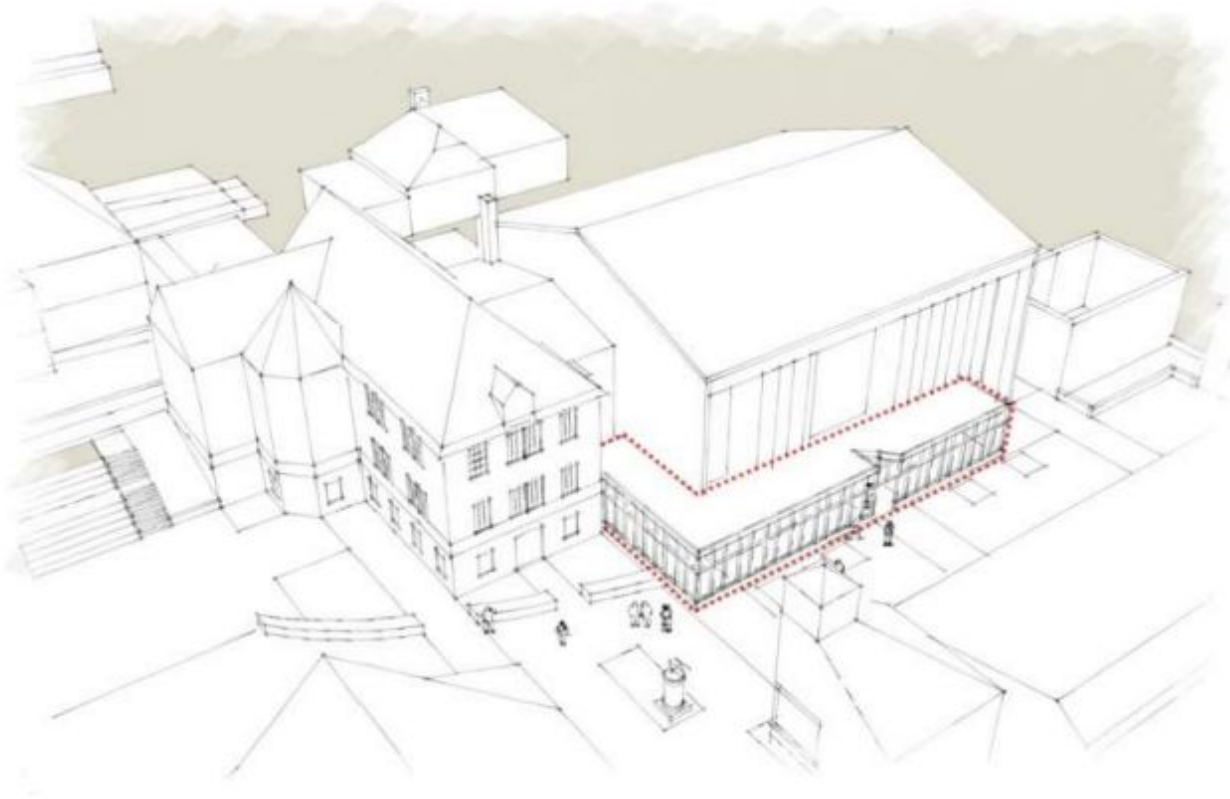


Inside Existing Joyce Vestibule



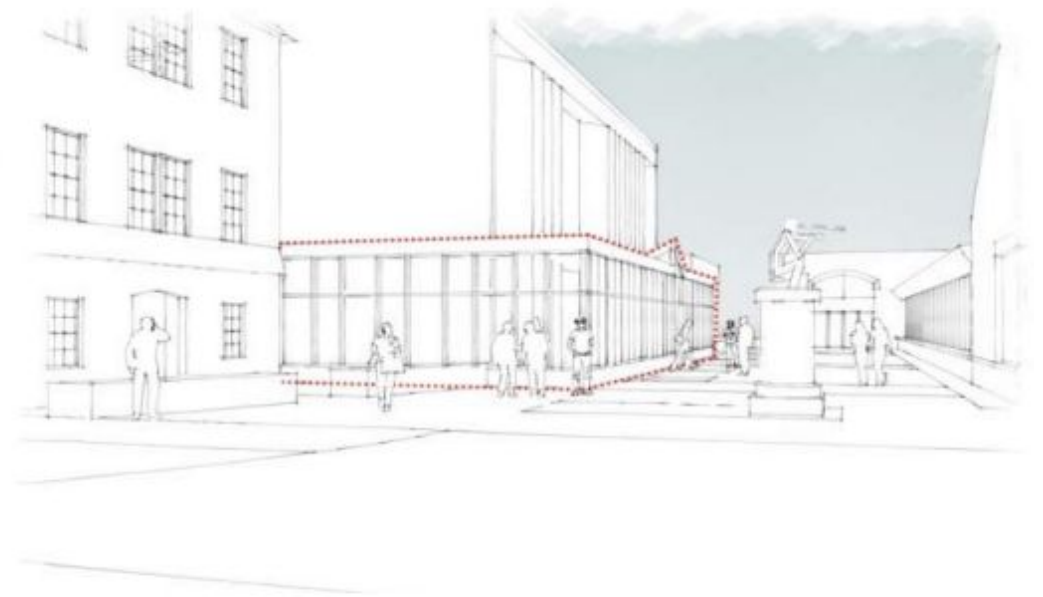


Artist Rendering of Expanded Vestibule



Left: A conceptual aerial perspective of the new addition connecting the ground floor of Freeman and Joyce

Right: A conceptual perspective sketch of the connector giving a new face to the STEAM initiative





Artist Renderings of Expanded Vestibule



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- GENERAL NOTES

- #### DEMOLITION NOTES

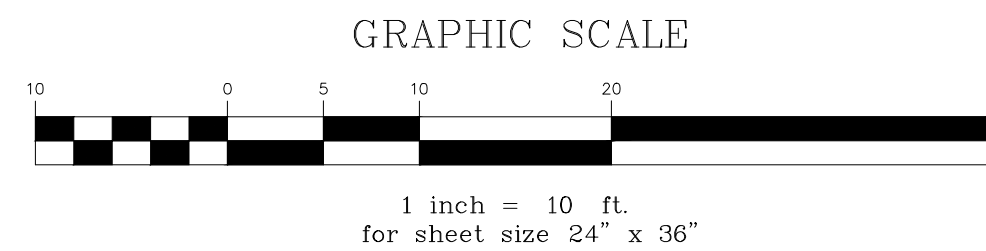
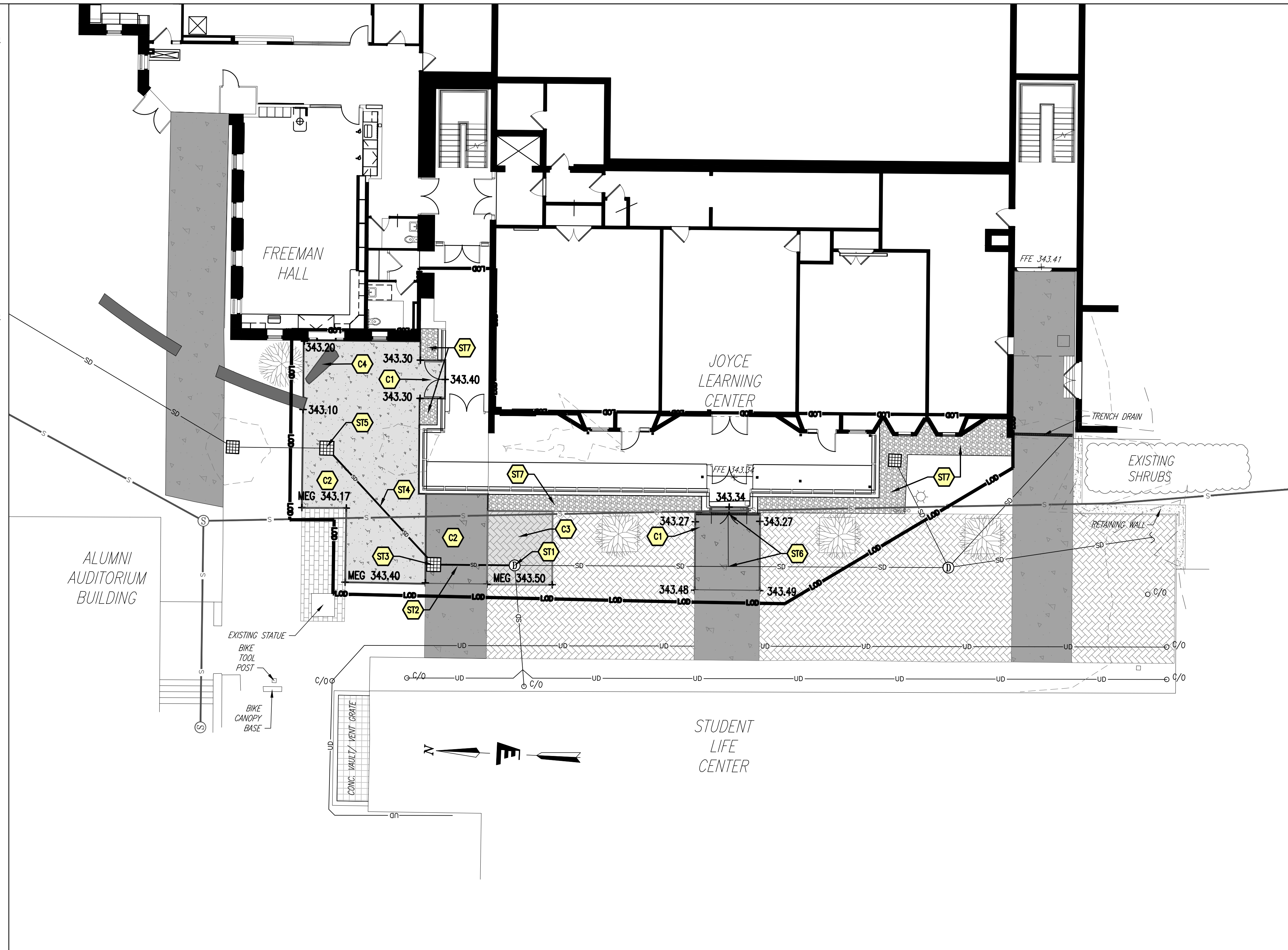
- ## DEMOLITION SCHEDULE

- LOD** LIMITS OF DISTURBANCE FOR CIVIL WORK AROUND PROPOSED ADDITION. DISTURBED SECTIONS OF CONCRETE SIDEWALK AND BRICK PAVERS AND OTHER SITE ITEMS NOT SPECIFICALLY IDENTIFIED ON THIS PLAN TO BE RESTORED TO MATCH EXISTING CONDITION



ST1	CORE AND BOOT NEW 15" PIPE PENETRATION IN EXISTING STRUCTURE INVERT OUT: 337.37
ST2	14 LF 15" PVC PIPE
ST3	3-FEET ID CATCH BASIN RIM: 343.34 15" PVC (ST2) INV IN: 337.30 15" PVC (ST4) OUT: 337.20
ST4	27 LF 15" PVC PIPE
ST5	RELOCATED EXISTING CATCH BASIN MAINTAIN EXISTING INVERTS: 337.15 RAISE RIM FROM 342.89 TO 343.00
ST6	INSTALL NEW TRENCH DRAIN CONNECT DRAIN TO EXISTING STORM LINE CONNECTION POINT
ST7	INSTALL CRUSHED STONE TO MATCH EXISTING FOR DRIP EDGE AT LOCATIONS SHOWN PROVIDE LANDSCAPE EDGING BETWEEN STONE AND CONCRETE/BRICK BOUNDARY

C1	INSTALL FROST-PROTECTED CONCRETE PAD OUTSIDE NEW ENTRY DOORS CONCRETE SURFACE TO MATCH EXISTING COLOR AND TEXTURE
C2	INSTALL NEW CONCRETE SIDEWALK CONCRETE SURFACE TO MATCH EXISTING COLOR AND TEXTURE
C3	REPLACE BRICK PAVERS REMOVED DURING DEMOLITION CONCRETE SURFACE TO MATCH EXISTING COLOR AND TEXTURE
C4	RELOCATED BOULDER MONUMENT WITH PLAQUE



	CLEAN OUT		LANDSCAPING
	MANHOLE		CONTOUR
	CATCH BASIN		SANITARY SEWER LINE
	STORM MANHOLE		STORM LINE
+ 100.00	SPOT ELEVATION		WATER LINE
	TREE		UNDERGROUND ELECTRIC
	SURVEY POINT		UNDERDRAIN
	LIGHT POLE		
	SIGN		

DRAWING NO.:

C2.1

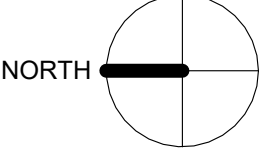
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REGISTRATION

KEY PLAN



ISSUES/REVISIONS

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DRAWN: EM	DATE: 1/16/2024
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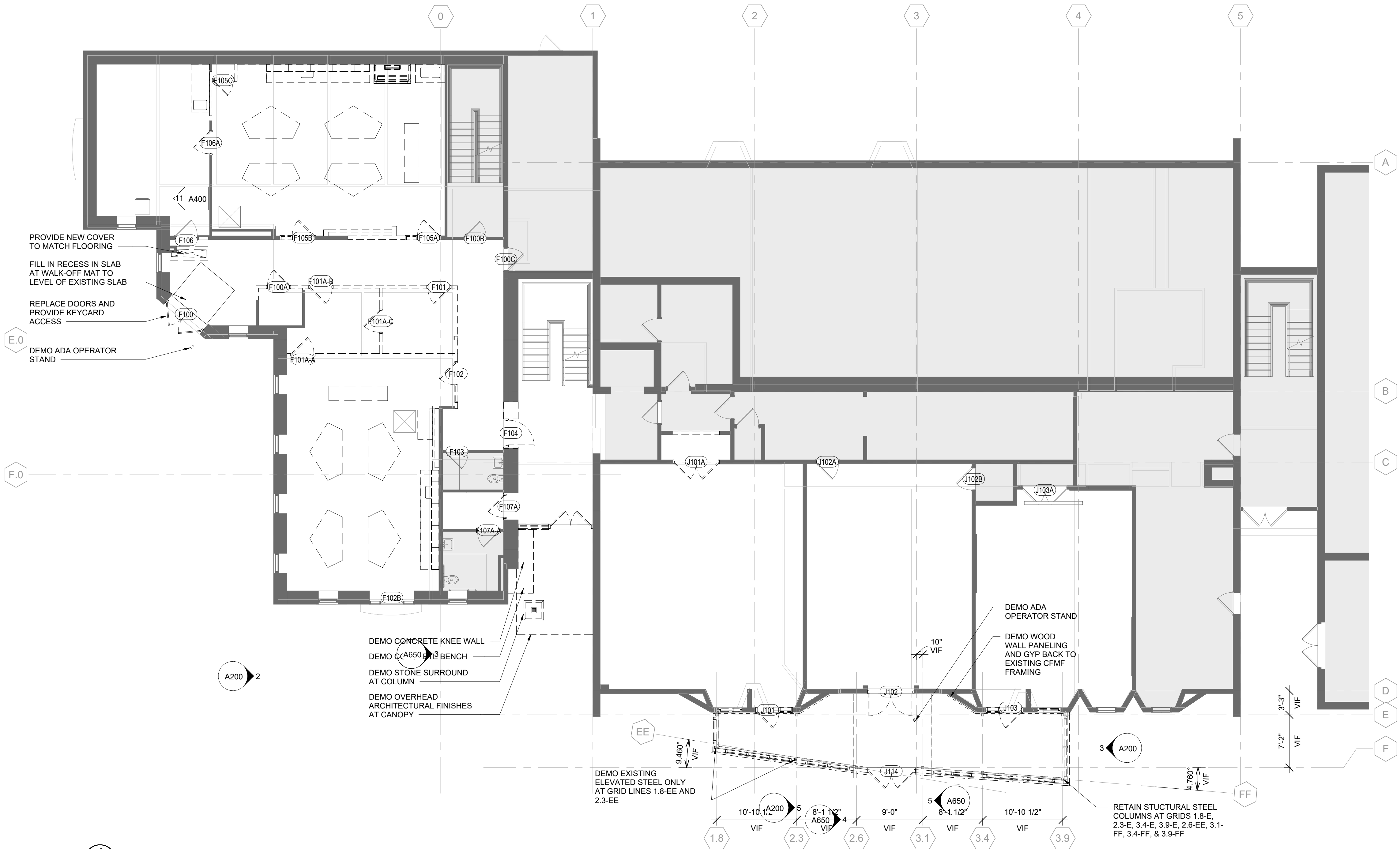
CHECKED: JP	SCALE: As indicated
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DRAWING NO.:

D100

1. ALL DIMENSIONS AND CONFIGURATIONS OF EXISTING ELEMENTS SHALL BE VERIFIED IN FIELD
2. ALL WALLS, FLOORS, WINDOWS, DOORS, STAIRS, FIXTURES, AND FINISHES INDICATED TO
3. REMAIN SHALL BE FULLY-PROTECTED FROM DEMOLITIONS AND SUBSEQUENT CONSTRUCTION
4. DEMOLITION PLANS INDICATE EXTENT OF FLOOR FINISH DEMOLITION AND/OR SUBSTRATE
5. REMOVAL, REFER TO ARCHITECT FOR ANY ADDITIONAL CUTTING OR PATCHING OF
6. EXISTING FRAMING. NOTIFY ARCHITECT IF ADDITIONAL CUTTING AND PATCHING IS
7. REQUIRED TO ACCESS ITEMS INDICATED FOR DEMOLITION OF INSTALLATION OF SYSTEMS.
8. REMOVE ALL FLOOR WALL, AND CEILING FINISHES, AS WELL AS, DEVICES AND FIXTURES
9. WITHIN THE SCOPE OF WORK. REVIEW WITH OWNER ANY FIXTURES OR DEVICES INTENDED
10. FOR REUSE.
11. REFER TO MEP/FP AND STRUCTURAL REPORT FOR EXTENT OF RELATED DEMOLITION.
12. REFER TO DEMOLITION ELEVATIONS FOR SCOPE OF WORK AT THE BUILDING ENVELOPE.
13. COORDINATE WITH OWNER FOR AVIT, DISPLAYS, SIGNAGE, DOOR HARDWARE, AND FF&E
14. ITEMS TO BE REINSTALLED OR TURNED OVER TO OWNER.
15. REMOVE ALL BUILT-IN CABINERY WITHIN SCOPE OF WORK.
16. RETAIN ELEVATED STEEL AT GRID LINES 1.8-E, 2.3-E, 3.4-E, 3.9-E, 2.6-F, 3.1-F, 3.4-FF, AND 3.9-FF.

	EXISTING WALL TO REMAIN
	EXISTING COLUMN TO REMAIN
	EXISTING DOOR TO REMAIN
	EXISTING WALL TO BE DEMOLISHED
	EXISTING COLUMN TO BE DEMOLISHED
	EXISTING DOOR TO BE DEMOLISHED
	CREATE NEW OPENING IN EXISTING WALL
	AREA NOT IN CONTRACT



1 LEVEL 1 DEMOLITION FLOOR PLAN
D100 Scale: 1/8" = 1'-0"

FREEMAN & JOYCE RENOVATION AND ADDITION

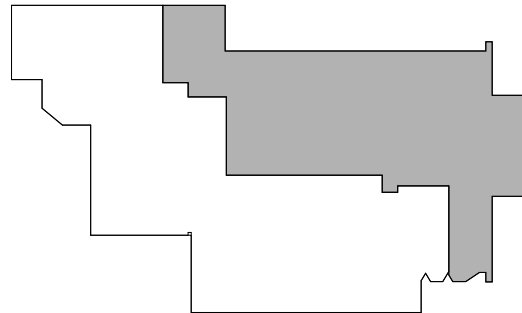
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REGISTRATION

KEY PLAN



ISSUES/REVISIONS

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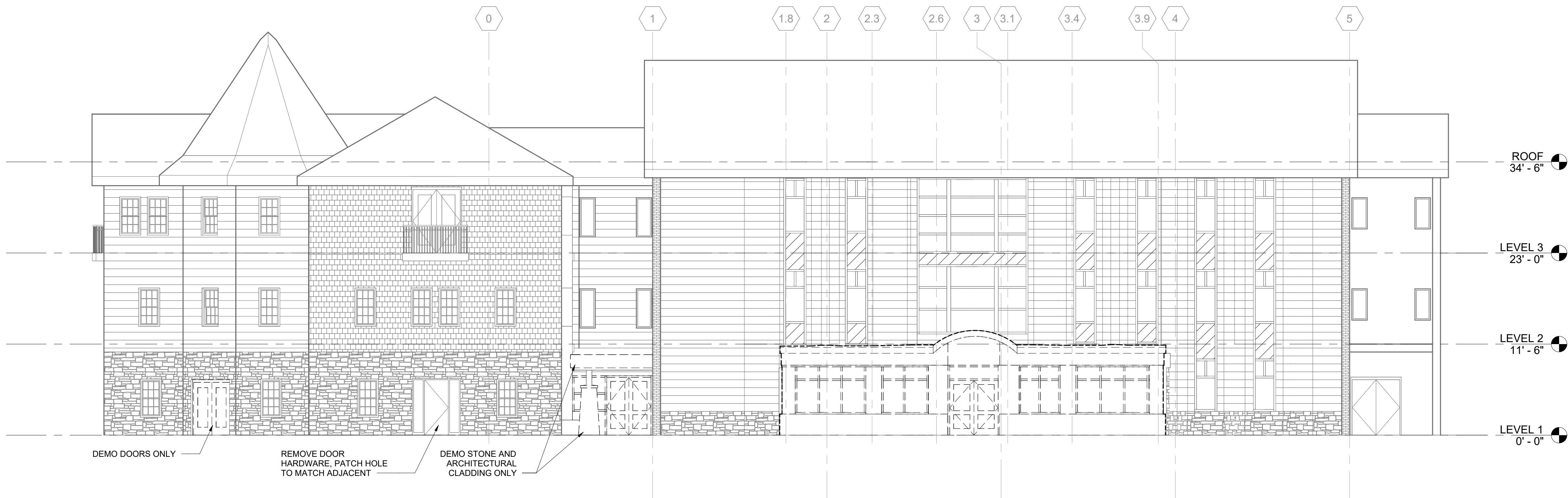
GOODY CLANCY PROJECT NUMBER: 23018

DRAWING NO.

D200

GENERAL DEMOLITION PLAN NOTES:

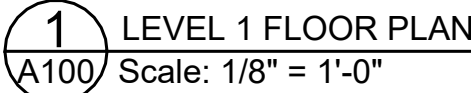
1. EVERY EFFORT SHOULD BE MADE TO PROTECT THE EXISTING BUILDING FABRIC SCHEDULED TO REMAIN. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING MATERIALS DURING DEMOLITION OR CONSTRUCTION TO MATCH ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.



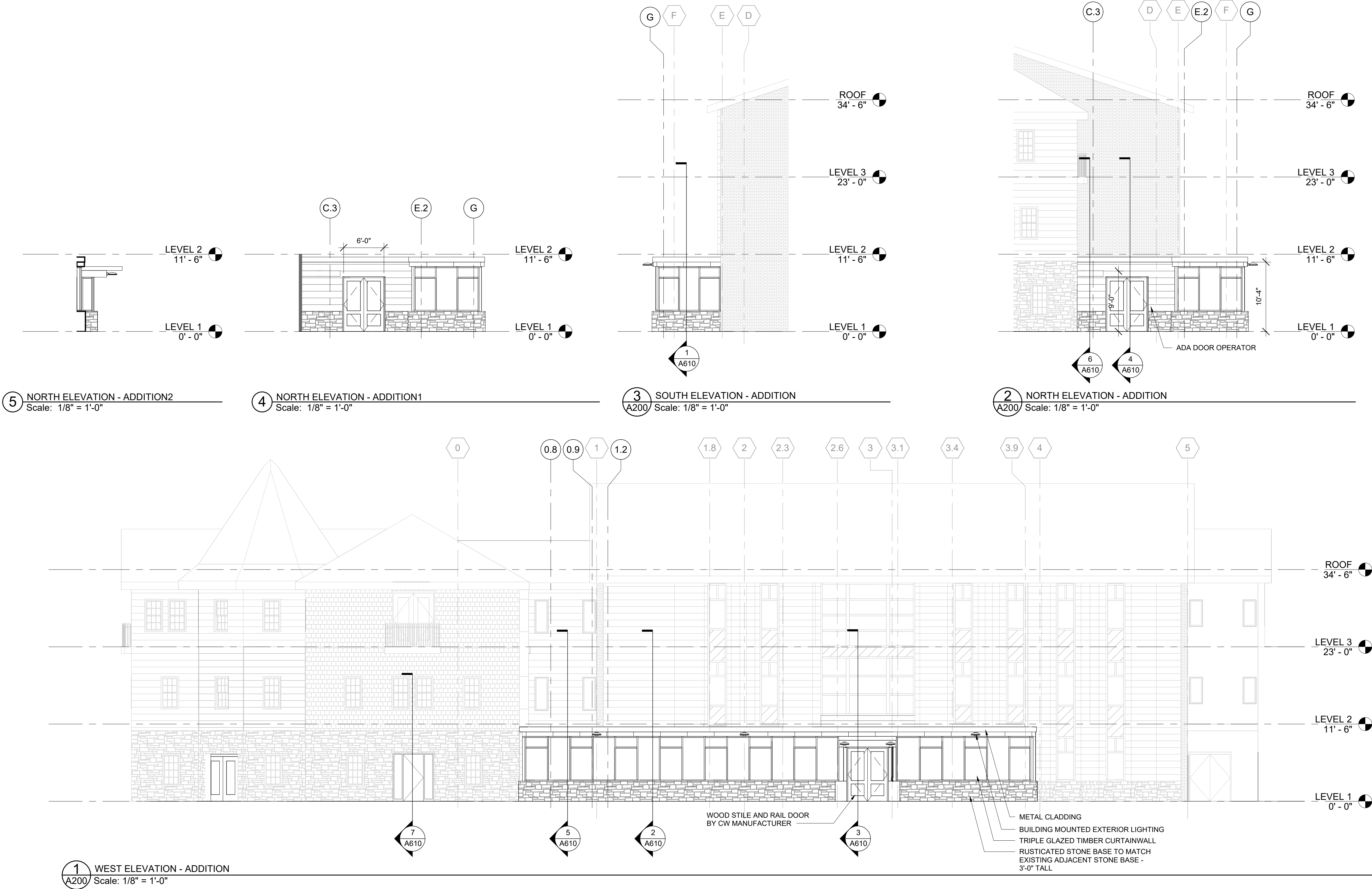
1 WEST ELEVATION - DEMOLITION
D200 Scale: 1/8" = 1'-0"

A100

-
- EXISTING WALL TO REMAIN
 EXISTING COLUMN TO REMAIN
 EXISTING DOOR TO REMAIN
 NEW WALL
 NEW COLUMN
 NEW DOOR
 AREA NOT IN CONTRACT



1/22/2024 10:47:06 AM C:\Users\emily.moreau\Documents\00-Revit-Local\ARCH_23018-Freeman and Joyce Reno_R24_Central_emily.moreau\WJ26B.rvt



CHAMPLAIN COLLEGE
**FREEMAN & JOYCE
RENOVATION AND
ADDITION**

163 S Willard Street
Burlington, VT
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KEY PLAN

NORTH

PROJECT STATUS
50% CONSTRUCTION DOCUMENTS
1/19/2024

ISSUES/REVISIONS

SHEET NAME
EXTERIOR ELEVATIONS

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GOODY CLANCY PROJECT NUMBER: 23018

DRAWN: DC

DATE: 12/13/2023

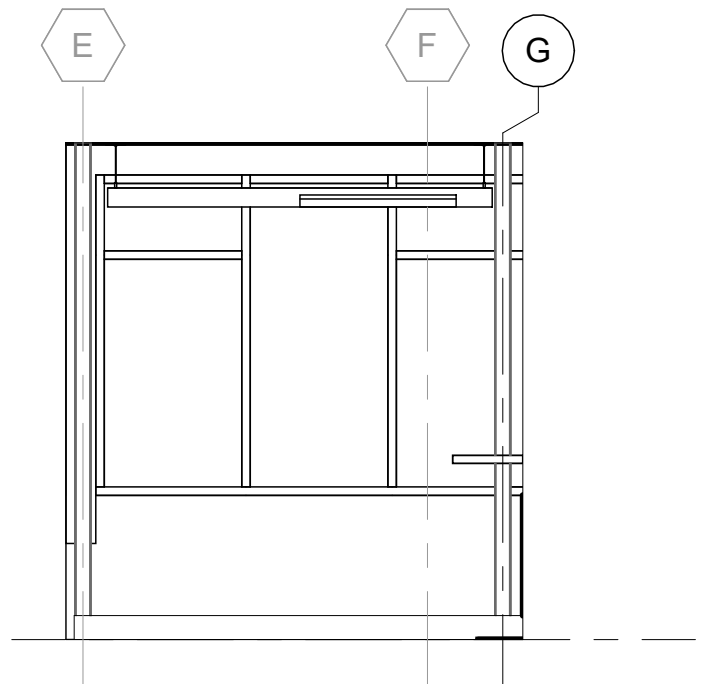
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SCALE: 1/8" = 1'-0"

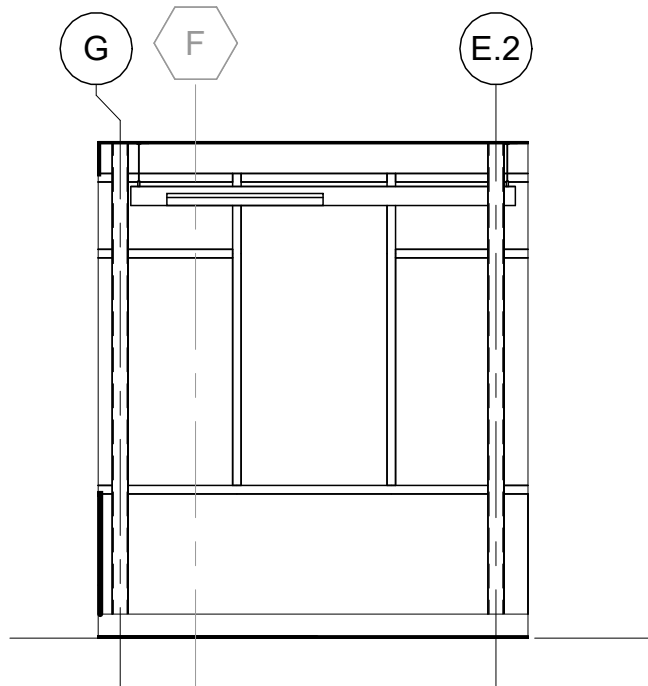
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A200

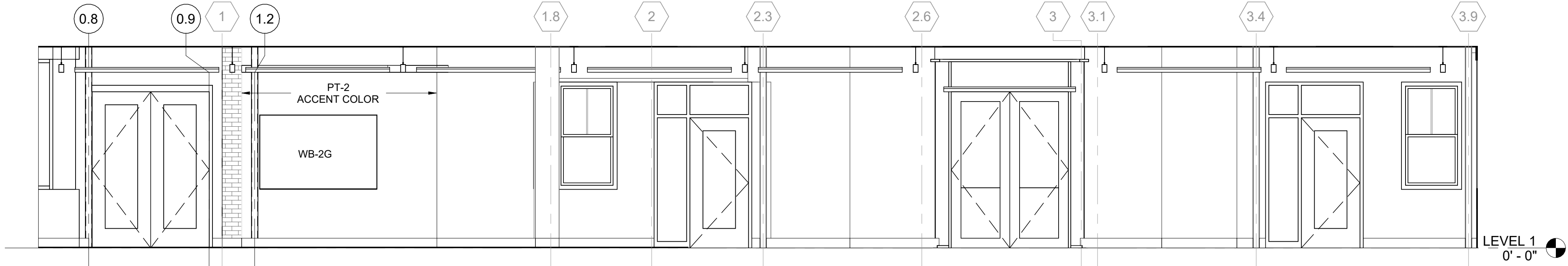
1/22/2024 10:47:32 AM C:\Users\emily.moreau\Documents\00-Revit-Local\ARCH_23018-Freeman and Joyce Reno_R24_Central_emily.moreau\WJ26B.rvt



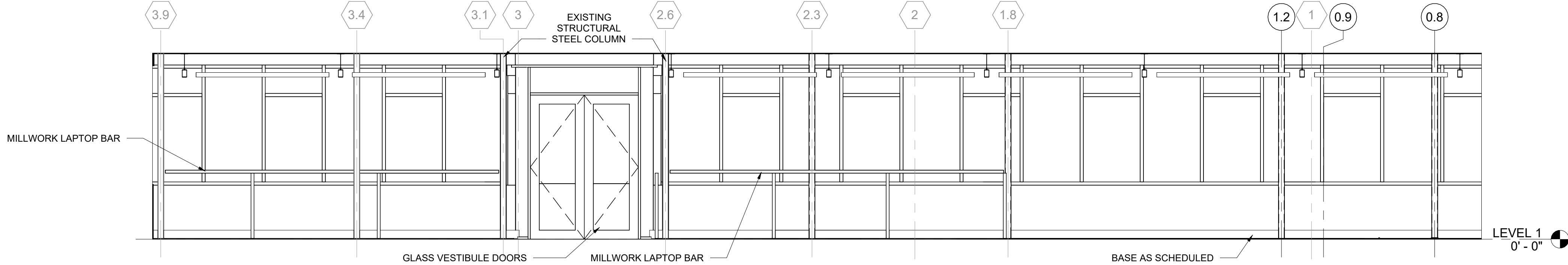
5 ADDITION CORRIDOR - SOUTH ELEVATION
Scale: 1/4" = 1'-0"



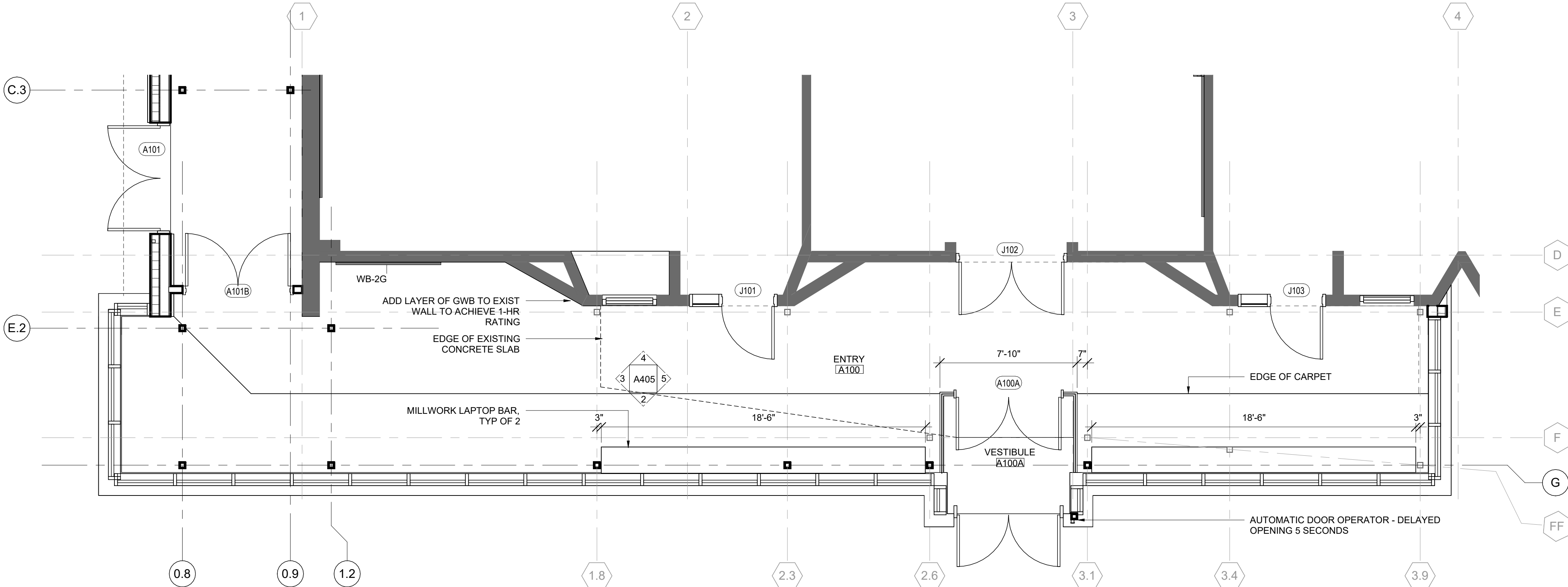
3 ADDITION CORRIDOR - NORTH ELEVATION
Scale: 1/4" = 1'-0"



4 ADDITION CORRIDOR - EAST ELEVATION
Scale: 1/4" = 1'-0"



2 ADDITION CORRIDOR - WEST ELEVATION
Scale: 1/4" = 1'-0"



1 LEVEL 1 FLOOR PLAN - ENLARGED
Scale: 1/4" = 1'-0"

GENERAL ENLARGED DRAWING NOTES:

1. FOR ALL ROOMS PROVIDE WALL BASE AS SCHEDULED
2. SEE FINISH SCHEDULE FOR PAINT
3. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, DEVICES, AND ACCESSORIES AS REQ'D
4. ALL CLASSROOMS TO BE PROVIDED WITH PROJECTABLE MARKERBOARDS. ASSUME 30" AFF AND 60" TALL SPANNING 75" THE WIDTH OF THE WALLS.
5. EVERY CLASSROOM TO BE PROVIDED WITH A CEILING MOUNTED PROJECTOR
6. CYBER RANGE TO HAVE (3) 90" DIAG. WALL MOUNTED DISPLAYS
7. PROVIDE BLOCKING FOR DOOR BUMPERS
8. FURNITURE NIC

CHAMPLAIN COLLEGE

FREEMAN & JOYCE
RENOVATION AND
ADDITION

163 S Willard Street
Burlington, VT
05401

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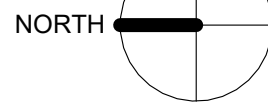
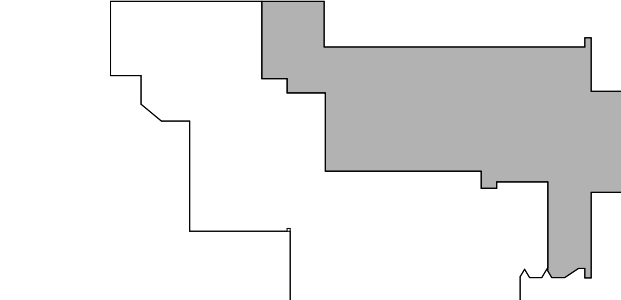
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50% CONSTRUCTION DOCUMENTS
1/19/2024

ISSUES/REVISIONS

SHEET NAME

ADDITION ENLARGED
FLOOR PLAN AND
ELEVATIONS

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GOODY CLANCY PROJECT NUMBER: 23018

DRAWN: EM DATE: 01/19/2024

CHECKED: JP SCALE: As indicated

DRAWING NO.:

A405

-
- GENERAL NOTES

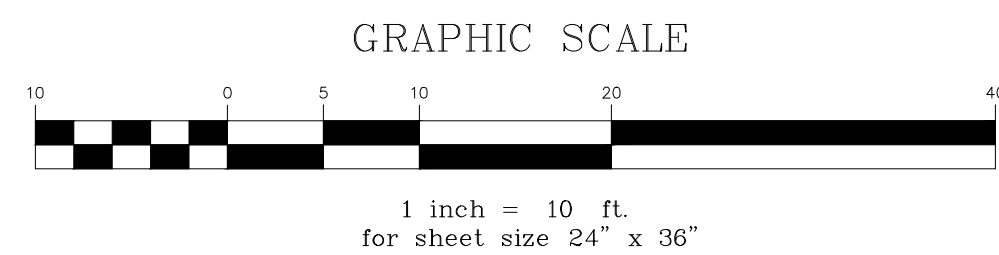
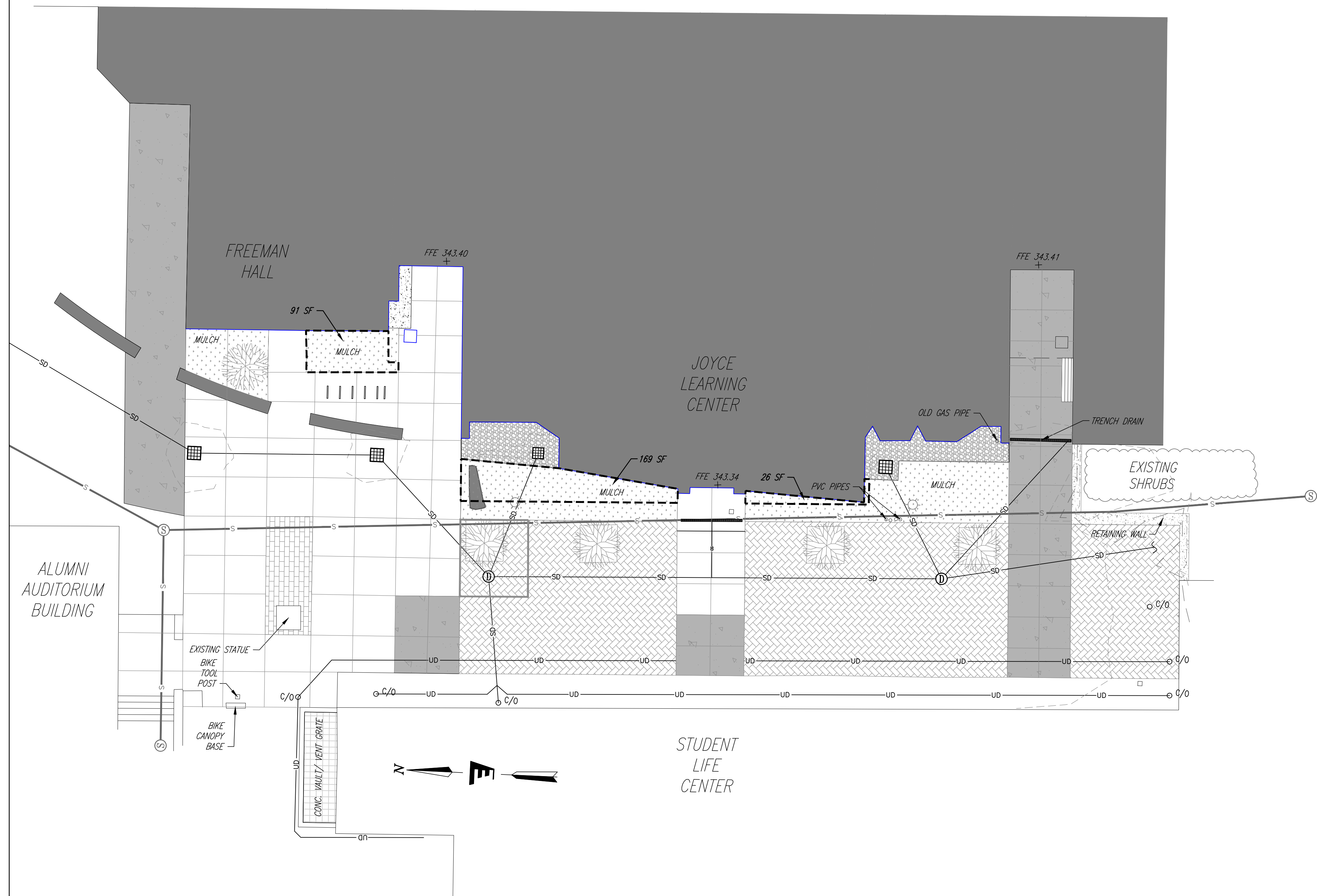
- #### DEMOLITION NOTES

- ## DEMOLITION SCHEDULE

- LOD** LIMITS OF DISTURBANCE FOR CIVIL WORK AROUND PROPOSED ADDITION. DISTURBED SECTIONS OF CONCRETE SIDEWALK AND BRICK PAVERS AND OTHER SITE ITEMS NOT SPECIFICALLY IDENTIFIED ON THIS PLAN TO BE RESTORED TO MATCH EXISTING CONDITION



EXISTING PERMEABLE MULCH SURFACE BEING CONVERTED TO IMPERVIOUS SURFACE = 286 SF.



	CLEAN OUT		LANDSCAPING
	MANHOLE		CONTOUR
	CATCH BASIN		SANITARY SEWER LINE
	STORM MANHOLE		STORM LINE
+ 100.00	SPOT ELEVATION		WATER LINE
	TREE		UNDERGROUND ELECTRIC
	SURVEY POINT		UNDERDRAIN
	LIGHT POLE		
	SIGN		

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GOODY CLANCY PROJECT NUMBER: 23018	
DRAWN: TB	DATE: 2/14/24
CHECKED: KW	SCALE: As Noted

C1.2

ST1 CORE AND BOOT NEW 15" PIPE PENETRATION IN EXISTING STRUCTURE
INVERT OUT: 337.37

ST2 36 LF 15" PVC PIPE

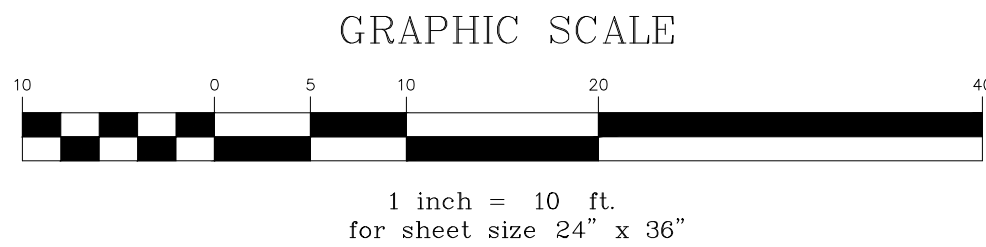
ST3 RELOCATED EXISTING CATCH BASIN
MAINTAIN EXISTING 15" INVERTS: 337.15
CORE NEW HOLE FOR 6" PVC PIPE ST4 AT ELEV: 337.65
RAISE RIM FROM 342.89 TO 343.00

ST4 INSTALL UNDERDRAIN ALONG NEW FOUNDATION DISCHARGING TO ST3
SEE DETAIL 6 SHEET C3.2
PROVIDE CLEANOUT IN CRUSHED STONE AREA

ST5 INSTALL NEW TRENCH DRAIN
CONNECT DRAIN TO EXISTING STORM LINE CONNECTION POINT

ST6 INSTALL CRUSHED STONE TO MATCH EXISTING FOR DRIP EDGE AT LOCATIONS SHOWN
PROVIDE LANDSCAPE EDGING BETWEEN STONE AND CONCRETE/BRICK BOUNDARY

C1	INSTALL FROST-PROTECTED CONCRETE PAD OUTSIDE NEW ENTRY DOORS CONCRETE SURFACE TO MATCH EXISTING COLOR AND TEXTURE DOWEL NEW SIDEWALK TO NEW BUILDING FOUNDATION PER DETAIL 2 SHEET C3.1
C2	INSTALL NEW CONCRETE SIDEWALK CONCRETE SURFACE TO MATCH EXISTING COLOR AND TEXTURE
C3	REPLACE BRICK PAVERS REMOVED DURING DEMOLITION CONCRETE SURFACE TO MATCH EXISTING COLOR AND TEXTURE
C4	RELOCATED BOULDER MONUMENT WITH PLAQUE



LEGEND		
	C/O	
	CLEAN OUT	
	MANHOLE	
	CATCH BASIN	
	STORM MANHOLE	
	SPOT ELEVATION	
	TREE	
	SURVEY POINT	
	LIGHT POLE	
	SIGN	
		LANDSCAPING
		CONTOUR
		SANITARY SEWER LINE
		STORM LINE
		WATER LINE
		UNDERGROUND ELECTRIC
		UNDERDRAIN



**ENGINEERING
VENTURES PC**

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GOODY CLANCY PROJECT NUMBER: 23018	
DRAWN: TB	DATE: 2/14/24
CHECKED: KW	SCALE: As Noted
DRAWING NO.:	



1. PLACE A TOOLED JOINT 1/8" WIDE AND AT LEAST 1/3 OF THE DEPTH, TYPICALLY AT INTERVALS MATCHING THE SIDEWALK WIDTH, OR AS NOTED ON PLANS (NOT TO EXCEED 10'-0").
2. PLACE EXPANSION JOINT AS INDICATED ON PLANS, NOT TO EXCEED 20'-0" MAX. ALL EXPANSION JOINTS SHALL BE DOWELED WITH 2" DIAMETER SMOOTH DOWEL AT 12" O.C. DOWEL SHALL BE 15" IN LENGTH AND SHALL HAVE AN EXPANSION CAP INSTALLED AT THE END. SEE DETAIL ON THIS SHEET.
3. BROOM FINISH WITH SMOOTH TROWELED EDGES. TREAT WITH SILANE-SILOXANE OR EQUAL.
4. CAST-IN PLACE CONCRETE TO BE 4000 psi COMPRESSIVE, 5%-7% AIR ENTRAINMENT WITH #4 DEFORMED REBAR AT MINIMUM 12" O.C. IN EACH DIRECTION IN SIDEWALK.
5. DOWELED TO ADJACENT SIDEWALKS/PAVEMENTS/CONCRETE/SLAB/EXISTING CURB PADS WITH FROST WALL FOUNDATIONS. SIDEWALKS SHALL BE DOWELED TO ADJACENT SIDEWALKS/PAVEMENTS/CONCRETE/SLAB/EXISTING CURB PADS WITH FROST WALL FOUNDATIONS. SIDEWALKS SHALL BE DOWELED TO PAD WITH 24" LONG #4 DOWELS (ENCASTED AT 1'-8" (or PORTION OF DOWEL IN SIDEWALK TO BE GREASED).
6. WHERE SIDEWALK IS ADJACENT TO CURB, BOLLARD OR OTHER HARD FEATURE, INSTALL 1/4" EXPANSION MATERIAL (FULL DEPTH OF SIDEWALK), BETWEEN FEATURE AND SIDEWALK.
7. COMPACT ALL FILL MATERIAL TO 95% MODIFIED PROCTOR.

SIDEWALK DETAIL

1

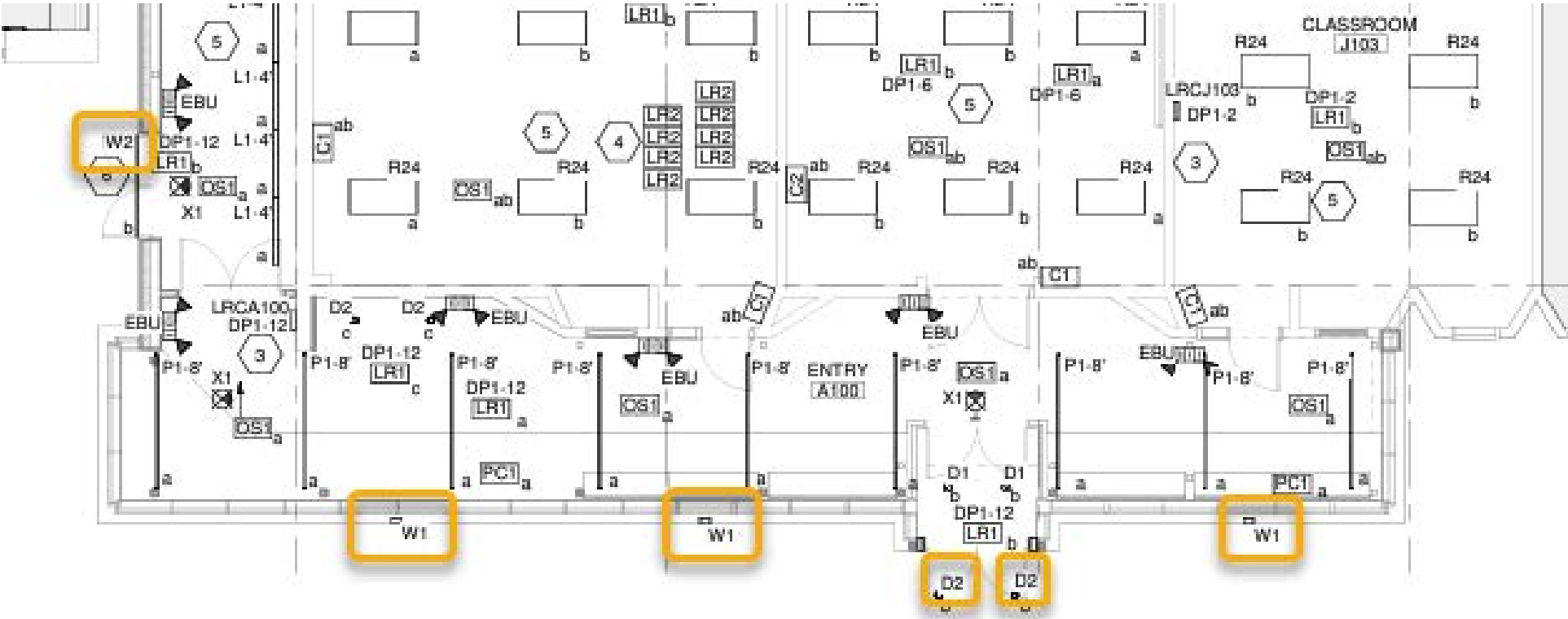


2

M.	2" CRUSHED STONE	SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
		3 INCH	100
		2 INCH	75 - 100
		1 INCH	0 - 10
		1/4" INCH	0 - 5

EXTERIOR LIGHTING

D1	STEM MOUNTED CYLINDER DOWN LIGHT	[PRUDENTIAL] RDP-4LED35-PROG750LM-TG1-YPEWTER-SSCX-SC-UNW-EBCP1G-YPEWTER-DM01	MULTI	LED 3500K 1000 LUMENS	120V/277V	8.8 W	EXTRUDED ALUMINUM CYLINDER, INTEGRAL DRIVER, ALUMINUM HEAT SINK BUILD AMERICA BUY AMERICA ACT COMPLIANT
D2	RECESSED 4" DOWN LIGHT	[PORTFOLIO] BAA- LD4C-10-D010/BAA-EU4C-1020-90-35/BAA-4LB-XX-XX-G-D010-(HANGER BARS)	MULTI	LED 3500K 1000 LUMENS	120V/277V	10.6W	GALVANIZED STEEL PLASTER FRAME, UNIVERSAL MOUNTING BRACKET ALUMINUM REFLECTOR BUILD AMERICA BUY AMERICA ACT COMPLIANT
W1	EXTERIOR WALL PACK	[WAC LIGHTING] WP-LED127-30-COLOR	MULTI	LED 3000K 1461 LUMENS	120V/277V		DIECAST ALUMINUM FACTORY SEALED HOUSING IP66 RATED, INTEGRAL DRIVER, COLOR BY ARCHITECT BUILD AMERICA BUY AMERICA COMPLIANT
W2	LINEAR LED TAPE IN CHANNEL WITH LENS	[NOVA FLEX LED] NF-DS-W-160-24-3000K CHANNEL - 3030CR -IP RATING -WET-BODY COLOR- BLACK - LENS TYPE - SOFT	MULTI	LED 3000K 1500 LUMENS	120V/277V	10.8	UL LISTED WET LOCATION, ALUMINUM CHANNEL WITH LENS, WET LOCATION RATED LED TAPE, REMOTE DRIVER, COORDINATE MOUNTING WITH ARCHITECT IN SIGN. BUILD AMERICA BUY AMERICA COMPLIANT



FIN - model: WP-LED1

Endurance Wallpack

WAC LIGHTING
Responsible Lighting®



Fixture Type:

Catalog Number:

Project:

Location:

SPECIFICATIONS

Construction: Die-cast aluminum

Power: Integral driver in luminaire. Universal voltage input (120V-277V)

Dimming: 100% - 30% with 0 - 10V dimmer (120V - 277V)

100% - 15% with Electronic Low Voltage (ELV) dimmer (120V only)

Finish: Powder coated Bronze, Graphite, and White

Standards: Energy Star®, DLC Listed, IP66, Wet Location, ETL & cETL Listed

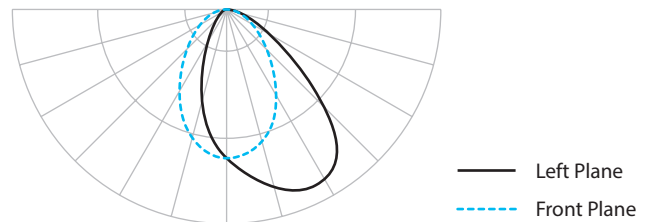
PRODUCT DESCRIPTION

Die cast aluminum factory sealed housings with patent pending design for a water and dust proof IP66 rated outdoor luminaire

FEATURES

- Factory-Sealed LED Light Engine
- 20° Forward Throw Illumination
- Photo/Motion Sensor Compatible (Sold Separately)
- Built-in Level For Easy Adjustment
- Suitable to install in all directions
- Multi-Function Dimming: ELV (120V) or 0-10V
- 85 CRI
- 100,000 hour rated life

PHOTOMETRY



ORDER NUMBER

		Power	Comparable	Delivered Lumens		Color Temp	Finish
				3000K	5000K		
	WP-LED119	19W	39W HID	1390	1460	30 50	BZ Bronze GH Graphite WT White
	WP-LED127	27W	70W HID	2075	2135		
	WP-LED135	35W	100W HID	2750	2825		

- -

Example: **WP-LED119-50-BZ**

ACCESSORIES

	Motion Sensor (120V)	MS-120-BZ Bronze MS-120-GY Gray MS-120-WT White
--	-------------------------	--

	Photo Sensor (120V)	PC-120-BZ Bronze PC-120-GY Gray PC-120-WT White
--	------------------------	--

WAC Lighting
www.waclighting.com
Phone (800) 526.2588 • Fax (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive • Port Washington, NY 11050
Phone (516) 515.5000 • Fax (516) 515.5050

Western Distribution Center
1750 Archibald Avenue • Ontario, CA 91760
Phone (800) 526.2588 • Fax (800) 526.2585

DESIGN SERIES

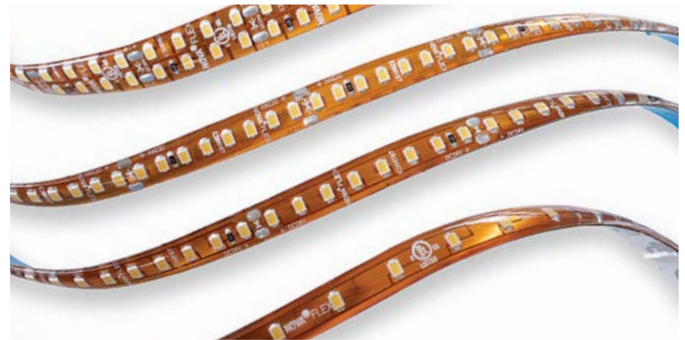
NOVA[®]FLEX[®]

This architectural-grade, 90+ CRI LED strip light ensures proper execution of design intentions for a variety of applications.

- Dry / Wet Environment
- Smooth, Flicker-free Dimming
- PoE Compatible



ORDER CODE	SERIES	ENV	LEDS/M	VOLTAGE	CCT
NF	DS	O = IP65 W = IP68*	64 128 160 240	24V	SEE TABLE
NF/SP	DS				



Physical

Operating Temp	IP65: -15° to 140°F (-25° to 60°C) IP68: -15° to 176°F (-25° to 80°C)
Environment	IP65 (Dust/splash proof) IP68* (Water/chemical resistant)
Mounting	3M Adhesive Clips Channels
Cut Length	Varies by series, see page 2

Quality Assurance

Lumen Maintenance	50,000 Hrs
Warranty	5 years
CCT Binning	3-step MacAdam
Certifications	UL Title 24, JA8 - 2019

Electrical

Voltage	24V
Wire Size	20 AWG. 2 Wire
Lead	Default: 120 Inch IP65: 2 Inch Minimum IP68*: 3 Inch Minimum Quick Connect: 3 - 120 Inch
Jumper	IP65 & IP68*: 3 Inch Minimum
Dimming	MLV 0-10V S3i Series Controller

Complete Solution

Step 1	Build the LED order code
Step 2	Select channel
Step 3	Select power and controls
Step 4	Select accessories
Step 5	Contact your Agent or Nova Flex

Performance

	CCT	CRI	Lumens/ft	Efficacy (lm/w)	Power (w/ft)	Max Run
DS 64	2200K*	87	164	68	2.4	31.0 ft
	2500K	90	224	93		
	2700K	93	309	129		
	3000K	92	256	107		
	3500K	92	255	106		
	4100K	92	243	101		
DS 128	5500K	94	259	108	3.6	22.9 ft
	2200K*	87	205	57		
	2500K	90	234	65		
	2700K	93	316	88		
	3000K	92	322	89		
	3500K	93	328	91		
DS 160	4100K	92	312	87	4.4	18.0 ft
	5500K	94	316	88		
	2200K*	90	272	62		
	2500K	92	326	74		
	2700K	93	424	96		
	3000K	92	397	90		
DS 240	3500K	92	407	93	6.6	13.8 ft
	4100K	92	411	93		
	5500K	94	384	87		
	2200K*	87	444	67		
	2500K	90	558	85		
	2700K	93	577	87		
DS 240	3000K	92	577	87	6.6	13.8 ft
	3500K	92	554	84		
	4100K	92	581	88		
	5500K	94	605	92		

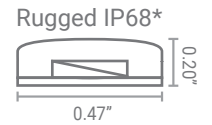
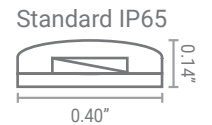
Data listed is for IP65 LED strip. Lumens have a tolerance of +/- 10%.

INSTALL GUIDE PHOTOMETRICS

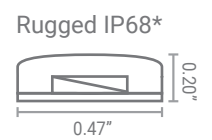
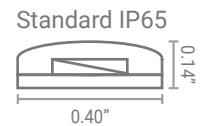
DESIGN SERIES

NOVA[★]FLEX

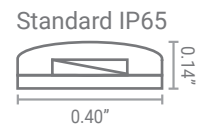
Design 64



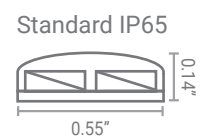
Design 128



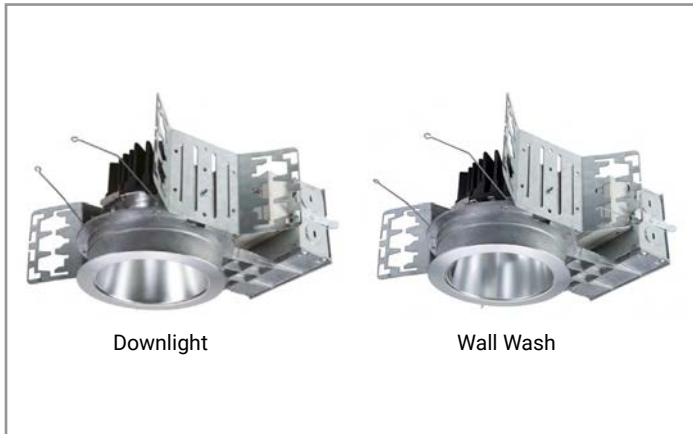
Design 160



Design 240



Project		Catalog #		Type	
Prepared by		Notes		Date	



Portfolio

LD4C | EU4C | 4LB

4" Round, New Construction Downlight
Narrow, Medium, Wide Beam or Wall Wash
250-7500 Lumens

Typical Applications

Office • Education • Healthcare • Hospitality • Retail •
Code-Compliance Areas • Sports Venues

Interactive Menu

- Order Information page 2
- Product Specifications page 4
- Energy Data page 6
- Photometric Data page 7
- Connected System page 11
- Product Warranty

Product Certification



Control Compatibility



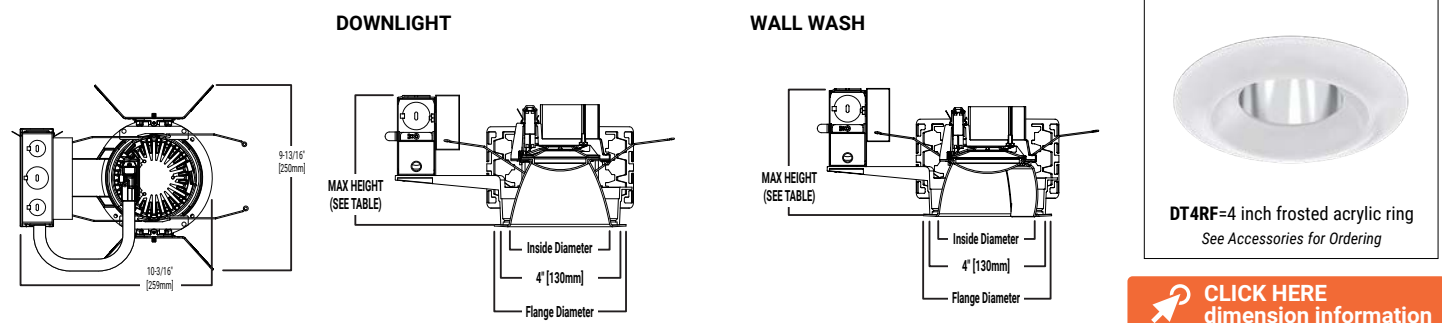
Product Features



Top Product Features

- 250-7500 lumens; Offered in 90 and 97 CRI; ENERGY STAR® qualified
- Easy disconnect for LED engine replacement and installation
- Optional snap in driver for ease of replacement
- Standard 0-10V driver dims to 1%
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K; D2W™ option from 3000K to 1850K
- Available W2N tunable white CCT range 2700K to 6500K or 2000K to 5000K
- Options to meet Buy American and other domestic preference requirements

Dimensional and Mounting Details



Single Line Order Information

SAMPLE ORDER NUMBER: **LD4C109030D010M1H**

Invoice will indicate separate fixture components (housing, trim, module) which will ship complete from a single CLS facility in separate cartons.

To receive separate components (housing, trim, module) shipment, click on the "Multi-Line Ordering Information Option" button to the right.

Multi-line Ordering
Information Option

Housing	Lumen ⁽¹⁾				Color Control	CCT ⁽²⁰⁾	
LD4C =LED Downlight 4" Nominal Aperture LD4CCP =LED Downlight 4" Nominal Aperture, Chicago Plenum For BAA or TAA use Multi-line Ordering	02 = 250 lumens, IC rated 05 = 500 lumens, IC rated 08 = 800 lumens, IC rated 10 = 1000 Lumens 10IC = 1000 Lumens, IC rated	15 = 1500 Lumens 15IC = 1500 Lumens, IC rated 20 = 2000 Lumens 25 = 2500 Lumens 30 = 3000 Lumens	35 = 3500 lumens 40 = 4000 Lumens 45 = 4500 Lumens ⁽¹⁰⁾ 50 = 5000 Lumens ⁽¹⁰⁾ 55 = 5500 Lumens ⁽¹⁰⁾	60 = 6000 Lumens ⁽¹⁰⁾ 65 = 6500 Lumens ⁽¹⁰⁾ 70 = 7000 Lumens ⁽¹⁰⁾ 75 = 7500 Lumens ⁽¹⁰⁾	90 =90 CRI Minimum 97 =97 CRI Minimum	90 CRI 24 =2400K 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K	97 CRI 27 =2700K 30 =3000K

Driver	Specify from Driver column. Information below for reference only.
	Remote driver & plug in driver
D010 =0-10V Dimming, 1% to 100%, 120V-277V up to 7000 lumens (up to 3000 lumens for remote driver) 1D010 =0-10V Dimming, 1% to 100%, 120V 7500 lumens (3500 to 7000 lumens for remote driver) 2D010 =0-10V Dimming, 1% to 100%, 277V 7500 lumens (3500 to 7000 lumens for remote driver) 3D010 =0-10V Dimming, 1% to 100%, 347V dedicated drivers for 800 to 4000 lumens; 250, 500, 4500 and above use step down transformer (250 to 7000 lumens for remote driver)	250-7000
D010TR =0-10V Dimming, 5% to 100%, 120V-277V or 120V line voltage dimming 250- 4500 lumens (up to 3000 lumens for remote driver) 1D010TR =0-10V or line voltage Dimming, 5% to 100%, 120V 5000-7500 lumens (3500 to 4500 lumens for remote driver) 2D010TR =0-10V Dimming, 5% to 100%, 277V 5000-7500 lumens (3500 to 4500 lumens for remote driver) 3D010TR =0-10V or line voltage Dimming, 5% to 100%, 347V step down transformer 250-7500 lumens (250 to 4500 lumens for remote driver)	250-4500
DE010 =0-10V Dimming, 0% to 100%, 120V-277V 500-7000 lumens (up to 3000 lumens for remote driver) 1DE010 =0-10V Dimming, 0% to 100%, 120V 7500 lumens (3500 to 7000 lumens for remote driver) 2DE010 =0-10V Dimming, 0% to 100%, 277V 7500 lumens (3500 to 7000 lumens for remote driver) 3DE010 =0-10V Dimming, 0% to 100%, 347V step down transformer, 500-7500 lumens (500 to 7000 lumens for remote driver)	500-7000
DSLT =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V-277V, 500-7000 lumens (up to 3000 lumens for remote driver) 1DSLT =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V 7500 lumens (3500 to 7000 lumens for remote driver) 2DSLT =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 277V 7500 lumens (3500 to 7000 lumens for remote driver) 3DSLT =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100% 347V step down transformer, 500-7500 lumens (500 to 7000 lumens for remote driver)	500-7000
DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V 800-4500 lumens (up to 3000 lumens for remote driver) ⁽¹⁴⁾ 1DMX = DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) ⁽¹⁴⁾ 2DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) ⁽¹⁴⁾ 3DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-7500 lumens (800 to 4500 lumens for remote driver) ⁽¹⁴⁾	800-4500
DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, 800-4500 lumens, RJ45 Connection (up to 3000 lumens for remote driver) ⁽¹⁴⁾ 1DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-7500 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) ⁽¹⁴⁾ 2DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-7500 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) ⁽¹⁴⁾ 3DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-7500 lumens, RJ45 Connection (800 to 4500 lumens for remote driver) ⁽¹⁴⁾	800-4500
DLE =Lutron Ecosystem dimming 1% to 100%, 120V-277V, 800-3500 lumens (up to 3000 lumens for remote driver) 1DLE =Lutron Ecosystem dimming 1% to 100%, 120V, 4000-7500 lumens (3500 lumens for remote driver) 2DLE =Lutron Ecosystem dimming 1% to 100%, 277V, 4000-7500 lumens (3500 lumens for remote driver) 3DLE =Lutron Ecosystem dimming 1% to 100%, 347, step down transformer, 800-7500 lumens (800-3500 lumens for remote driver)	800-3500
DLV = Low voltage dimming driver (1-100%) for use with DLVP system 800-3000 lumens ⁽³⁾	800-3000 (Remote driver only)

Driver Options	Hanger Bars
Blank = Integral driver RC100 = Remote 100ft ⁽³⁾ ⁽³³⁾ RC75 = Remote 75ft ⁽³⁾ ⁽³³⁾ RC50 = Remote 50ft ⁽³⁾ ⁽³³⁾ RC25 = Remote 25ft ⁽³⁾	Blank = Without hanger bars B26 = C-channel Bar Hanger, 26" Long, Pair
RC15 = Remote 15ft ⁽³⁾ RC5 = Remote 5ft ⁽³⁾ RC2 = Remote 2ft ⁽³⁾ PD = Plug in Driver	

Trim Distribution ⁽⁵⁾	Trim Flange	Trim Finish	Options ⁽³⁾ ⁽¹⁶⁾ ⁽³¹⁾
N =Narrow, Spun Aluminum ⁽²⁴⁾ M =50° Cutoff, Medium Beam Reflector, Spun Aluminum MD =45° Cutoff, Medium Beam Reflector, Spun Aluminum W =Wide, Spun Aluminum S =Shallow, Spun Aluminum HY =Hyperbolic medium beam ⁽¹²⁾ PS =Non-Conductive Shallow (dead front), white ⁽¹¹⁾ ⁽¹²⁾ CS =Cast Shallow, Die Cast Aluminum BA = Spun Aluminum Baffle ⁽⁷⁾ Wall Wash SWN = Single Wall Wash, Spun Aluminum DWN = Double Wall Wash, Spun Aluminum CW = Corner Wall Wash, Spun Aluminum LSWW = Lensed Single wall wash, Spun Aluminum LDWW = Lensed Double wall wash, Spun Aluminum	0 =White Polymer Trim Ring 1 =Self-flanged ⁽¹³⁾ 2 =White Painted Self-flanged 4 =Knife edge rimless use with die cast only ⁽⁸⁾ ⁽²³⁾	LI =Specular Clear ⁽⁹⁾ H =Semi-Specular Clear ⁽⁹⁾ WMH =Warm Haze ⁽⁹⁾ WH =Wheat ⁽⁹⁾ GPH =Graphite Haze ⁽⁹⁾ B =Specular Black ⁽⁹⁾ MW =Matte White (Antimicrobial) MB =Matte Black ⁽⁹⁾ MMS =Matte Metallic Silver ⁽⁹⁾	EMBOD =Bodine® Emergency Module with Remote Test Switch ⁽²⁵⁾ EMBOD6ST =Bodine® 6W Self Test Emergency Module with Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch EM14 =14W Emergency Module with Remote Test Switch EMBOD7ST =Bodine® Self Test Emergency Module ⁽²⁵⁾ IEMBOD =Bodine® Emergency Module with Integral Test Switch ⁽⁶⁾ ⁽²⁵⁾ IE7 =7W Emergency Module with Integral Test Switch ⁽⁶⁾ IE14 =14W Emergency Module with Integral Test Switch ⁽⁶⁾ EMV7 =7W Low Voltage Emergency Module with Remote Test Switch ⁽⁴⁾ EMV14 =14W Low Voltage Emergency Module with Remote Test Switch ⁽⁴⁾ ETRD =Emergency transfer device ⁽³²⁾ WPST = Factory installed WaveLinX PRO Sensor Kit ⁽¹⁵⁾ ⁽¹⁸⁾ WLST = Factory installed WaveLinX LITE Sensor Kit ⁽¹⁵⁾ ⁽¹⁷⁾ WPN = WaveLinX PRO Wireless Node without sensor ⁽²⁰⁾ ⁽³⁶⁾ WLN = WaveLinX LITE Wireless Node without sensor ⁽²⁵⁾ ⁽³⁶⁾

Continued on next page.

Product Specifications

Lower Shielding Reflector

- Painted die-cast aluminum or spun aluminum lower reflector with lensed upper optical chamber provides superior lumen output with minimal source brightness
- Spun reflectors are available in all Portfolio anodized finishes
- Hyperbolic reflector provides minimal aperture brightness and glare.
- Available with non-conductive polymer reflector up to 2000 lumens
- Plaster lathing ring, knife edge and millwork ring accessory for flush reflector transition
- Decorative frosted acrylic ring provides a light glow in the ceiling

Wall Wash Reflector

- Open Wall Wash** - wall wash reflector with gradient kicker offered in single, double and corner wall wash provides even vertical illumination with minimal source brightness.
- Rotatable Lensed Wall Wash** - Rotatable Lensed wall wash reflector offered in single and double wall wash provides even vertical illumination with minimal source brightness.

Trim Retention

- Two torsion springs hold reflector flange tightly to the finished ceiling surface

Plaster Frame/Collar

- Die-cast aluminum 1 1/2" deep collar
- Accommodates up to 2" ceiling thickness

Universal Mounting Bracket

- Accepts 1/2" Electric Metallic Tube (EMT), C-channel and bar hangers
- Adjusts 5" vertically from above and below the ceiling

Junction box

- Four 1/2" and two 3/4" trade size pry outs positioned to allow straight conduit runs
- Lever connectors for simple push in wiring
- Listed for eight #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring

Thermal

- Aluminum heat sink conducts heat away from the LED module for improved performance and longer life

LED System

- Contains a plurality of high brightness white LED's combined with a high reflectance upper reflector and convex transitional lens producing even distribution without pixilation
- Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded
- Quick disconnect allows for tool-less replacement of LED engine from below ceiling
- 90 and 97 CRI
- 90 & 97CRI: L78 55,000 hours for 1000-2000 lumens, L90 55,000 for all other lumen output
- Color variation within 2-step MacAdam ellipses
- Available in 2400K, 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)

Vividtune and High CRI

- 98 CRI and W2N: L70 55,000 hours
- D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.
- W2N - Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI. Standard
- 98 CRI** With a full-spectrum approach using broad-blue chip technology and special phosphor blends, Thrive is able to closely match the spectrum of the sun across all color temperatures. Benefits of the natural spectrum of the sun using Thrive include superior accurate color rendering, reduced eye strain, and a higher sense of emotional well-being.
- See dedicated specification sheet for more details.

Driver

- Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%
- Optional 120V leading edge/0-10V, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem
- Driver can be serviced from above or through the aperture
- Distributed low voltage power system combines power, lighting, and controls with ease of installation.
- Optional magnetically guided snap in driver for ease of maintenance.

Emergency Option

- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test with remote charge indicator and test switch
- Emergency transfer device (ETRD) senses the loss of power regardless of local control settings allowing emergency power to the fixture.
- UL 924 listed

Connected Lighting System

Two WaveLinX connected solutions to choose from. Refer to WaveLinX system specifications and application guides for details.

WaveLinX PRO Tilemount Sensor Kit

- WaveLinX PRO WPST tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinX PRO Wireless Node

- WaveLinX PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note: Not compatible with 347V or Chicago plenum.**

WaveLinX LITE Tilemount Sensor Kit

- WaveLinX LITE WLST tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinX LITE Wireless Node

- WaveLinX LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note: Not compatible with 347V or Chicago plenum.**

WaveLinX Tilemount Sensor Kits Application

- The WPST and WLST tilemount sensor kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WPST and WLST tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.
- Note: WaveLinX PRO devices are only compatible with the WaveLinX PRO system.**
- Note: WaveLinX LITE devices are only compatible with the WaveLinX LITE system.**

Code Compliance

- Thermally protected
- cULus Certified to UL 1598 / C22.2 No. 250.0 suitable for wet locations with downlight; damp location with wall wash and hyperbolic with covered ceiling
- IP66 rated when used with IP66 gasket kit accessory
- Optional City of Chicago environmental air (CCEA) marking for plenum applications
- FCC CFR Title 47 Part 15 Class B at 120VAC and Class A at 277VAC
- Insulated ceiling (IC) rated up to 1,500 lumens (90 and 97CRI). All others are non-IC rated (insulation must be kept 3" from top and sides of housing).
- Can be used for State of California Title 24 high efficacy LED compliance under JA8, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2016 JA8 High Efficacy Lighting
- RoHS compliant
- Photometric testing completed in accordance with IES LM-79
- LED life testing completed in accordance with IES LM-80-08 and TM-21-11 standards
- See table on page 3 for marked spacing requirements

Warranty

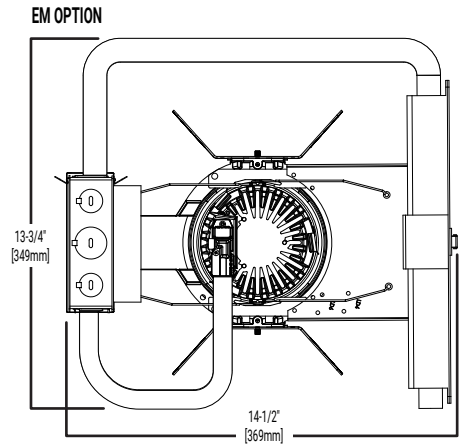
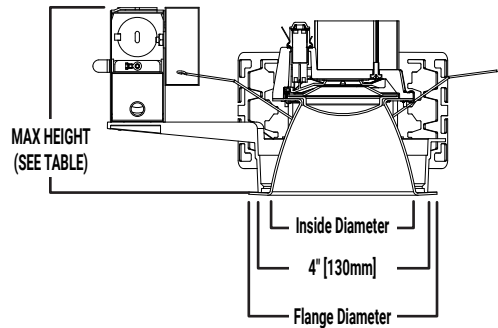
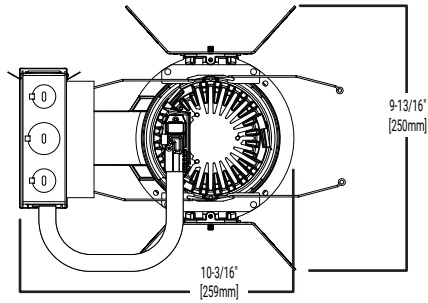
- Five year warranty www.cooperlighting.com/legal

Marked Spacing

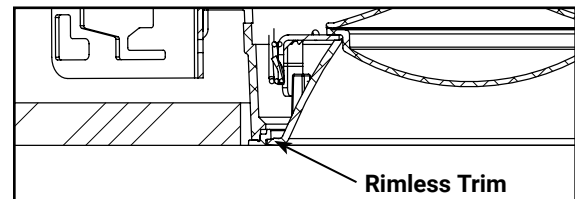
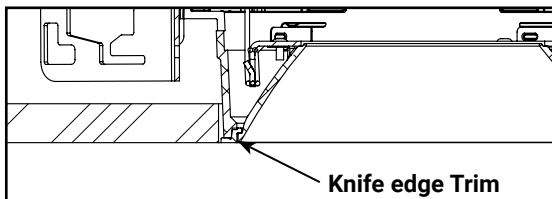
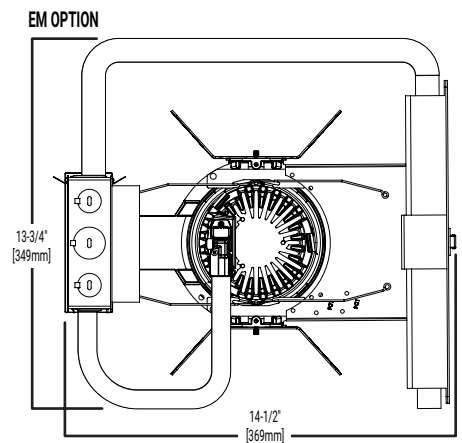
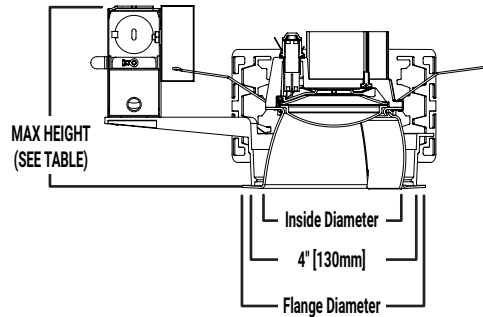
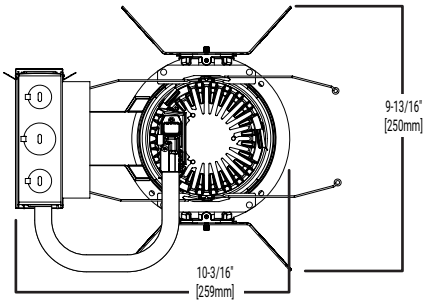
4-inch Marked spacing for 90 and 97 CRI			
4000	36	36	0.5
4000-7500 (Lutron)	36	36	8
4500-7500	36	36	8

Dimensional and Mounting Details

DOWNLIGHT



WALL WASH



CATALOG #	Flange DIAMETER or WIDTH [IN]	INSIDE DIAMETER or WIDTH [IN]	MAX HEIGHT				
			250-2000 LUMENS (90/97CRI)	2500-4000 LUMENS (90/97CRI)	4500-6000 LUMENS (90/97CRI)	1000-1500IC LUMENS (90/97CRI) 6500-7000 LUMENS (90/97CRI)	2 LEDs 4500-7500 LUMENS (90/97CRI)
4LBN	5.67	4.24	5.6	5.6	5.6	6.1	8.1
4LBM	5.67	4.26	5.6	5.6	5.6	6.1	8.1
4LBW	5.67	4.27	5.6	5.6	5.6	5.7	7.7
4LBBA	5.67	4.28	5.6	5.6	5.6	6.1	8.1
4LBMD	5.67	4.26	5.8	5.9	6.4	6.9	8.9
4LBHY	5.67	4.34	5.6	5.6	5.6	6.1	8.1
4LBS	5.67	4.23	5.6	5.6	5.6	5.6	6.4
4LBPS	5.67	4.23	5.6	5.6	5.6	5.6	6.5
4LBCS	5.67	4.23	5.6	5.6	5.6	5.6	6.5

4LB SWN	5.67	4.27	5.6	5.6	5.6	5.7	7.7
4LB DWN	5.67	4.27	5.6	5.6	5.6	5.7	7.7
4LB CW	5.67	4.01	5.6	5.6	5.6	5.7	7.7
4LB LSWW	5.67	4.27	5.6	5.6	5.6	5.7	7.7
4LB LDWW	5.67	4.27	5.6	5.6	5.6	5.7	7.7

Multi-line Order Information

SAMPLE ORDER NUMBER: **LD4C10D010TRIEM14** (All components may ship separately)

Invoice will indicate separate fixture components (housing, trim, module) and may ship from multiple CLS facilities in separate cartons.

Single line Ordering
Information Option

Domestic Preferences ⁽¹⁾	Housing	Lumens ⁽²⁾		
[Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act	LD4C =LED Downlight 4-inch Nominal Aperture LD4CCP =LED Downlight 4-inch Nominal Aperture, Chicago Plenum	02 =250 lumens 05 =500 lumens 08 =800 lumens 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens	25 =2500 lumens 30 =3000 lumens 35 =3500 lumens 40 =4000 lumens 45 =4500 lumens 50 =5000 lumens ⁽³⁾	55 =5500 lumens ⁽³⁾ 60 =6000 lumens ⁽³⁾ 65 =6500 lumens ⁽³⁾ 70 =7000 lumens ⁽³⁾ 75 =7500 lumens ⁽³⁾

Driver	Driver Options
D010 = 0-10V Dimming, 1% to 100%, 120V-277V, up to 7000 lumens (up to 3000 lumens for remote driver) 1D010 = 0-10V or line voltage Dimming, 1% to 100%, 120V, 7500 lumens (3500 to 7000 lumens for remote driver) 2D010 = 0-10V Dimming, 1% to 100%, 277V, 7500 lumens (3500 to 7000 lumens for remote driver) 3D010 = 0-10V Dimming, 1% to 100%, 347V dedicated drivers for 800 to 4000 lumens; 250, 500, 4500 and above use step down transformer (250 to 7000 lumens for remote driver) 1 driver: 250-7000 / 2 drivers: 7500	Blank =Integral driver R =Remote driver (offered with single driver, order remote driver separately) ⁽⁶⁾ PD =Plug in Driver (offered with single driver) ⁽⁸⁾
D010TR = 0-10V Dimming, 5% to 100%, 120V-277V or 120V line voltage dimming, 250- 4500 lumens (up to 3000 lumens for remote driver) 1D010TR = 0-10V or line voltage Dimming, 5% to 100%, 120V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) 2D010TR = 0-10V or line voltage Dimming, 5% to 100%, 277V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) 3D010TR = 0-10V Dimming, 5% to 100%, 347V step down transformer, 250-7500 lumens (250 to 4500 lumens for remote driver) 1 driver: 250-4500 / 2 drivers: 5000-7500	
DE010 = 0-10V Dimming, 0% to 100%, 120V-277V, 500-7000 lumens (up to 3000 lumens for remote driver) 1DE010 = 0-10V Dimming, 0% to 100%, 120V, 7500 lumens (3500 to 7000 lumens for remote driver) 2DE010 = 0-10V Dimming, 0% to 100%, 277V, 7500 lumens (3500 to 7000 lumens for remote driver) 3DE010 = 0-10V Dimming, 0% to 100%, 0-10V Dimming, 347V step down transformer, 500-7500 lumens (500 to 7000 lumens for remote driver) 1 driver: 500-7000 / 2 drivers: 7500	
D5LT = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V-277V, 500-7000 lumens (up to 3000 lumens for remote driver) 1D5LT = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V, 7500 lumens (3500 to 7000 lumens for remote driver) 2D5LT = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 277V, 7500 lumens (3500 to 7000 lumens for remote driver) 3D5LT =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100% 347V step down transformer, 500-7500 lumens (500 to 7000 lumens for remote driver) 1 driver: 500-7000 / 2 drivers: 7500	
DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, 800-4500 lumens (up to 3000 lumens for remote driver) ⁽⁵⁾ 1DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) ⁽⁵⁾ 2DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-7500 lumens (3500 to 4500 lumens for remote driver) ⁽⁵⁾ 3DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-7500 lumens, RJ45 Connection (800 to 4500 lumens for remote driver) ⁽⁵⁾ 1 driver: 800-4500 / 2 drivers: 5000-7500	
DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, up to 800-4500 lumens, RJ45 Connection (up to 3000 lumens for remote driver) ⁽⁵⁾ 1DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 5000-7500 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) ⁽⁵⁾ 2DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 5000-7500 lumens, RJ45 Connection (3500 to 4500 lumens for remote driver) ⁽⁵⁾ 3DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 250-7500 lumens, RJ45 Connection (800 to 4500 lumens for remote driver) ⁽⁵⁾ 1 driver: 800-4500 / 2 drivers: 5000-7500	
DLE =Lutron Ecosystem dimming 1% to 100%, 120V-277V, 800-3500 lumens (up to 3000 lumens for remote driver) 1DLE =Lutron Ecosystem dimming 1% to 100%, 120V, 4000-7500 lumens (3500 lumens for remote driver) 2DLE =Lutron Ecosystem dimming 1% to 100%, 120V-277V, 4000-7500 lumens (3500 lumens for remote driver) 3DLE =Lutron Ecosystem dimming 1% to 100%, 347V, step down transformer, 800-7500 lumens (800-3500 lumens for remote driver) 1 driver: 800-3500 / 2 drivers: 4000-7500	
DLV =Low voltage dimming driver (1-100%) for use with DLVP system 800-3000 lumens ⁽⁶⁾	

Options ⁽⁶⁾		
EMB0D =Bodine® Emergency Module with Remote Test Switch ⁽¹⁰⁾ EMB0D6ST =Bodine® 6W Self Test Emergency Module with Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch EM14 =14W Emergency Module with Remote Test Switch EMB0D7ST =Bodine® Self Test Emergency Module ⁽¹⁰⁾ IEMB0D =Bodine® Emergency Module with Integral Test Switch ^{(10) (22)}	IEM7 =7W Emergency Module with Integral Test Switch ⁽²²⁾ IEM14 =14W Emergency Module with Integral Test Switch ⁽²²⁾ EMV7 =7W Low Voltage Emergency Module with Remote Test Switch ⁽⁷⁾ EMV14 =14W Low Voltage Emergency Module with Remote Test Switch ⁽⁷⁾ ETRD =Emergency transfer device ⁽³¹⁾	WPST =Factory installed WaveLinX PRO Sensor Kit ^{(11) (13)} WLST =Factory installed WaveLinX LITE Sensor Kit ^{(11) (12)} WPN = WaveLinX PRO Wireless Node without Sensor ^{(34) (37)} WLN = WaveLinX LITE Wireless Node without Sensor ^{(36) (37)} MB = Matte Black Painted Plaster Frame

Continued on next page.

Multi-line Order Information

SAMPLE ORDER NUMBER: EU4C10209035

Domestic Preferences ⁽¹⁾	Power Module	Lumen Levels ⁽²⁾	CRI ⁽²⁾	Color
[Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act	EU4C =4-inch Universal LED Module	For use with one driver 0208IC =250, 500, 800 lumens, IC Rated (for use with all drivers, min 500 lumen with DE010 and D5LT, min 800 lumens with DLVP, Lutron and DMX) 1020 = 1000, 1500, 2000 lumens 1015IC =1000, 1500 lumens IC Rated 2540 =2500, 3000, 3500, 4000 lumens (For use with Lutron 3000-3500, DLVP 3000 lumens, DMX, D010, D010TR, D5LT and DE010 3000-4000) 4560 =4500, 5000, 5500, 6000 lumens (For use with DMX and D010TR 4500 lumens, D010, D5LT and DE010 4500-6000) ⁽³⁾ 6570 =6500, 7000 lumens (For use with D010, D5LT and DE010) ⁽³⁾ For use with two drivers 4075 =4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500 lumens (For use with Lutron 4000-7500, D010TR & DMX 5000, D010, D5LT & DE010 7500 lumen) ⁽³⁾	90 =90 CRI Minimum 97 =97 CRI Minimum	90 CRI 24 =2400K 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K 97 CRI 27 =2700K 30 =3000K

SAMPLE ORDER NUMBER: 4LB2H

Domestic Preferences ⁽¹⁾	Trim	Reflector		Flange	Finish	Options
[Blank] =Standard BAA =Buy American Act	4LB =4" LED	N =Narrow, Spun Aluminum ⁽²⁹⁾ M =50° Cutoff, Medium Beam Reflector, Spun Aluminum MD =45° Cutoff, Medium Beam Reflector, Spun Aluminum W =Wide, Spun Aluminum S =Shallow, Spun Aluminum HY =Hyperbolic medium beam ^{(29) (35)} PS =Non-Conductive Shallow (dead front), white ^{(16) (17)} CS =Cast Shallow, Die Cast Aluminum BA = Spun Aluminum Baffle ⁽²⁴⁾	<u>Wall Wash</u> SWN =Single wall wash, spun aluminum DWN =Double wall wash, spun aluminum CW =Corner wall wash, spun aluminum LSWW =Lensed single wall wash, spun aluminum LDWW =Lensed double wall wash, spun aluminum	0 =White polymer trim ring 1 =Self flanged ⁽¹⁸⁾ 2 =White painted self flanged 4 =Knife edge rimless use with die cast only ⁽¹⁹⁾	LI =Specular Clear ⁽²⁰⁾ H =Semi-Specular Clear ⁽²⁰⁾ WMH =Warm Haze ⁽²⁰⁾ WH =Wheat ⁽²⁰⁾ GPH =Graphite Haze ⁽²⁰⁾ B =Specular Black ⁽²⁰⁾ MW =Matte White MB =Matte Black ⁽²¹⁾ MMS =Matte Metallic Silver ⁽²¹⁾	E =Integral Emergency Test Switch Hole ⁽²²⁾

REQUIRED if Remote Driver (R) is specified

SAMPLE ORDER NUMBER: RC10010D010TREM7

Domestic Preferences ⁽¹⁾	Remote Drivers	Lumens ^{(2) (14)}
[Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act	RC100 =Remote 100ft RC75 =Remote 75ft RC50 =Remote 50ft RC25 =Remote 25ft RC15 =Remote 15ft RC5 =Remote 5ft RC2 =Remote 2ft	02 =250 lumens 05 =500 lumens 08 =800 lumens 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 25 =2500 lumens 30 =3000 lumens 35 =3500 lumens 40 =4000 lumens 45 =4500 lumens 50 =5000 lumens 55 =5500 lumens 60 =6000 lumens 65 =6500 lumens 70 =7000 lumens

Continued on next page.

Multi-line Order Information

Driver
D010 = 0-10V Dimming, 1% to 100%, 120V-277V, 250-3000 lumens 1D010 = 0-10V Dimming, 1% to 100%, 120V, 3500-7000 lumens 2D010 = 0-10V Dimming, 1% to 100%, 277V, 3500-7000 lumens 3D010 = 0-10V Dimming, 1% to 100%, 347V dedicated drivers for 800 to 3000 lumens; 250, 500, 3500-7000 lumens use step down transformer
D010TR = 0-10V Dimming, 5% to 100%,120V-277V or 120V line voltage dimming, 120V-277V, 250- 3000 lumens 1D010TR = 0-10V or line voltage Dimming, 5% to 100%, 120V, 3500-4500 lumens 2D010TR = 0-10V Dimming, 5% to 100%, 277V, 3500-4500 lumens 3D010TR = 0-10V or line voltage Dimming, 5% to 100% 347V step down transformer, 250-4500 lumens
DE010 = 0-10V Dimming, 0% to 100%, 120V-277V, 500-3000 lumens 1DE010 = 0-10V Dimming, 0% to 100%, 120V, 3500-7,000 lumens 2DE010 = 0-10V Dimming, 0% to 100%, 277V, 3500-7,000 lumens 3DE010 = 0-10V Dimming, 0% to 100%, 347V step down transformer, 500-7,000 lumens
D5LT = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V-277V, 500-3000 lumens 1D5LT = Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V, 3500-7,000 lumens 2D5LT =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 277V, 3500-7,000 lumens 3D5LT =Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100% 347V step down transformer, 500-7,000 lumens
DMX = DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, 800-3000 lumens ⁽⁵⁾ 1DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 3500-4500 ⁽⁵⁾ 2DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 3500-4500 ⁽⁵⁾ 3DMX =DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-4500 ⁽⁵⁾
DMXC5 = DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V up to 800-3000 lumens, RJ45 Connection ⁽⁵⁾ 1DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 120V, 3500-4500 lumens, RJ45 Connection ⁽⁵⁾ 2DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 277V, 3500-4500 lumens, RJ45 Connection ⁽⁵⁾ 3DMXC5 =DMX/RDM Logarithmic Dimming, 0% to 100%, 347V step down transformer, 800-4500 lumens, RJ45 Connection ⁽⁵⁾
DLE = Lutron Ecosystem dimming 1% to 100%, 120V-277V, 25' Max remote length, 800-3000 lumens 1DLE =Lutron Ecosystem dimming 1% to 100%, 120V, 25' Max remote length, 3500 lumens 2DLE =Lutron Ecosystem dimming 1% to 100%, 277V, 25' Max remote length, 3500 lumens 3DLE =Lutron Ecosystem dimming 1% to 100%, 347V, step down transformer, 25' Max remote length, 800-3500 lumens
DLV = Low voltage dimming driver (1-100%) for use with DLVP system, 800-3000 lumens ⁽⁶⁾

Options	Controls
EMB0D =Bodine® Emergency Module with Remote Test Switch ⁽¹⁰⁾ EMB0D6ST =Bodine® 6W Self Test Emergency Module with Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch EM14 =14W Emergency Module with Remote Test Switch	EMB0D7ST =Bodine® Self Test Emergency Module with Remote Test Switch ⁽¹⁰⁾ EMV7 =7W Low Voltage Emergency Module with Remote Test Switch ⁽⁷⁾ EMV14 =14W Low Voltage Emergency Module with Remote Test Switch ⁽⁷⁾ ETRD =Emergency transfer device ⁽³¹⁾
	WPST =Factory installed Wavelinx PRO Sensor Kit ⁽¹¹⁾ ⁽¹³⁾ WLST =Factory installed WaveLinX LITE Sensor Kit ⁽¹¹⁾ ⁽¹²⁾ WPN = WaveLinX PRO Wireless Node without Sensor ⁽³⁴⁾ ⁽³⁷⁾ WLN = WaveLinX LITE Wireless Node without Sensor ⁽³⁶⁾ ⁽³⁷⁾

Accessories (Order separately) ⁽²⁵⁾		
TRM4P =White metal trim ring ⁽²⁴⁾ LGSKT4IP66 =IP66 Gasket Kit DT4RF =4 inch frosted acrylic ring ⁽²⁸⁾ PRR4 =Rimless Plaster Ring ⁽²⁶⁾ RKP4 =Knife Edge plaster Ring ⁽²⁷⁾ RPM4MW =Rimless Millwork Ring, Matte White ⁽²⁶⁾ RPM4MB =Rimless Millwork Ring, Matte Black ⁽²⁶⁾ RKM4MW =Knife Edge Millwork Ring, Matte White ⁽²⁷⁾ RKM4MB =Knife Edge Millwork Ring, Matte Black ⁽²⁷⁾	HSA4 =Slope Adapter for 4" Aperture Housings, Specify Slope ⁽³³⁾ <u>Connected Lighting Systems</u> ⁽⁶⁾ ⁽¹¹⁾ WPST = Field installed WaveLinX PRO Sensor Kit ⁽¹³⁾ WLST = Field installed WaveLinX LITE Sensor Kit ⁽¹²⁾ <u>Transformers</u> H347 =H347 for 5500 lumens and below H347200 =347 to 120V Step Down Transformer, 200VA	<u>Bar Hangers</u> HB50 =C-channel Bar Hanger, 50" Long, Pair RMB22 =Wood Joist Bar Hanger, 22" Long, Pair HB26 = C-channel Bar Hanger, 26" long, Pair BAA-HB26 =C-channel Bar Hanger, 26" long, Pair, BAA compliant ⁽¹⁾ TAA-HB26 =C-channel Bar Hanger, 26" Long, Pair, TAA compliant ⁽¹⁾

Notes: 1. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analysed under domestic preference requirements. Offered with spun aluminum narrow (N), medium (M), wide (W) and wall wash (LWW, SWN, DWN) trims. 2. Nominal Lumens will vary depending on selected color, CRI, driver and reflector finish. Reference Multiplier tables . 3. Product is marked spacing. Reference table on page 4 for the spacing details . 5. DMX fixtures default to full on upon loss of DMX signal. 6. Not available with Chicago Plenum. 7. ULus listed only 8. Offered with - D010, D5LT, DE010 up to 7000 lumens - D010TR, DMX up to 4500 lumens - DLE, DL2 up to 3500 lumens 9. Not available with 5500 lumens 10. Not available for 6500-7000 lumens 11. Refer to system specifications for additional information,features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver. 12. WLST = WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 or DE010 only (Refer to WaveLinX LITE system specifications). 13. WPST = WaveLinX PRO wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 or DE010 only. 14. IC rated up to 3000 lumens 15. Spun aluminum only 16. PS available in self-flanged MW finish only 17. Offered up to 2000 lumens 18. Flange is the same finish as the reflector 19. Requires knife edge accessory ring 20. Anodized or spun reflectors 21. Die cast only 22. Available with narrow (N), medium (M) and medium 45 degree (MD) Spun Aluminum trims. Required for use with all IEMB0D, IEM7, IEM14,IEMV7 and IEMV14 housings. Not offered with remote driver. 23. Offered with DLVP up to 3000 lumens. 24. Black or white paint. 25. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 26. Order trim with polymer trim ring (Consult specification sheet for color ordering information and options). 27. Order die cast trim with flange type 4 28. Order with self flanged trim. 29. Use only with single LED/driver. 29. If using remote driver order battery and controls with the remote driver. 30. 120V-277V 31. Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). 32. Non-IC 33. Not recommended for use with Wall Wash 34. WPN = WaveLinX PRO wireless node provides luminairelevel control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with D010 or DE010 drivers only. 35. Offered up to 2000 lumens 36. WLN = WaveLinX LITE wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with D010 or DE010 drivers only. 37. Not compatible with 347V or Chicago plenum.	
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