

A Renovation for:

THE STABLES AT STRAWBERRY CREEK

733 McCubbins Road

Knoxville, Tennessee 37924

June 26, 2023

ARCHITECT:



Johnson
Architecture

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File Number: 7-A-23-UR

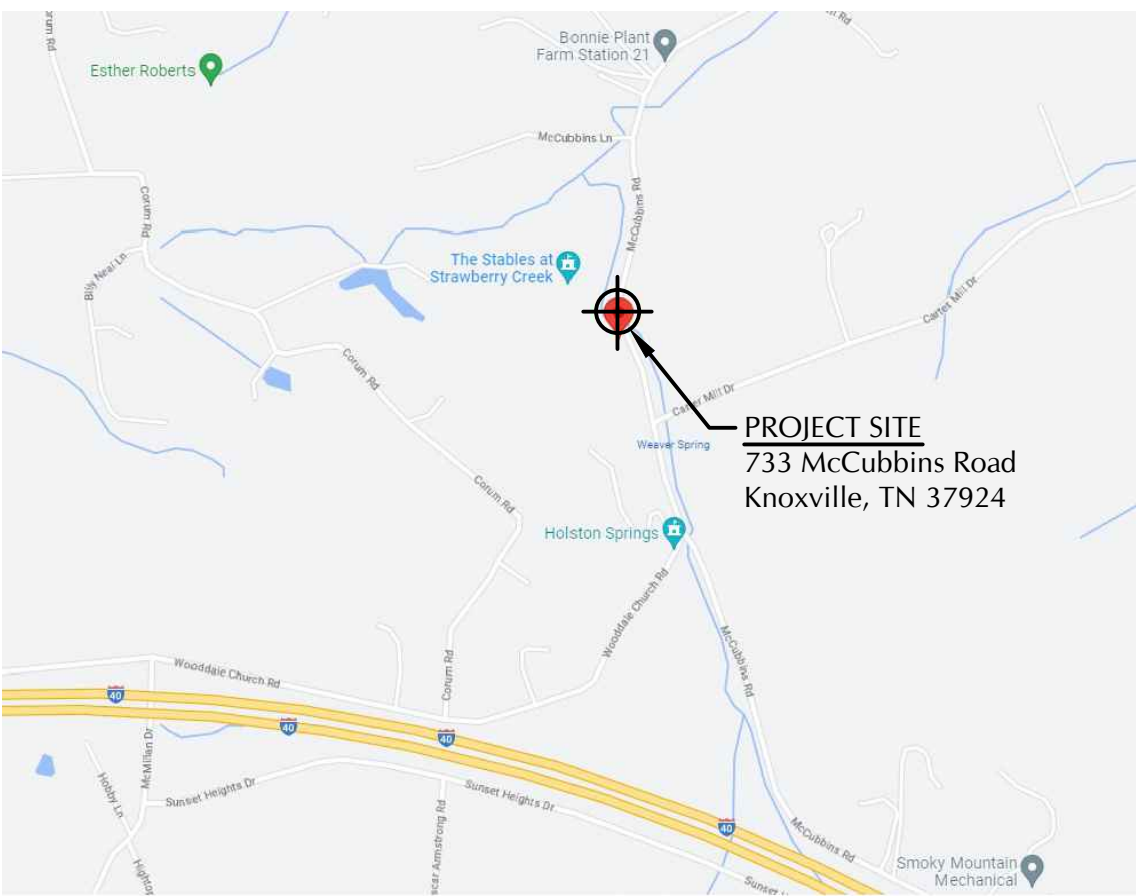
Submitted for Knox County
Planning Use on Review

6/26/2023

LOCATION

CODE REQUIREMENTS

DRAWING INDEX



BUILDING CODE/ ZONE ANALYSIS

KNOX COUNTY

PROJECT: A Renovation for:
THE STABLES AT STRAWBERRY CREEK

ARCHITECT: Johnson Architecture, Inc.
2332 News Sentinel Dr., Suite 230
Knoxville, Tennessee 37921
865-671-9060

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Applicable Codes:

2009 ICC/ANSI A117.1
2018 International Energy Conservation Code as adopted by City Ordinance 0-181-2018
2018 International Building Code as adopted by City Ordinance 0-180-2018
2018 International Existing Building Code as adopted by City Ordinance 0-179-2018
2018 International Residential Code as adopted by City Ordinance 0-182-2018
2017 edition of the National Electrical Code as adopted by City Ordinance 0-176-2018
2018 edition of the International Fuel Gas Code as adopted by City Ordinance 0-178-2018
2018 edition of the International Mechanical Code as adopted by City Ordinance 0-177-2018
2018 edition of the International Plumbing Code as adopted by City Ordinance 0-175-2018
2018 edition of the International Property Maintenance Code as adopted by City Ordinance 0-174-2018
Knoxville Code of Ordinances: Chapter 6 Buildings and Building Regulations, Article I, Section 6-5. Fire District
In addition, the Fire Inspection Bureau reviews plans for compliance with:
2018 International Fire Code with Local Amendments as adopted by City Ordinance 0-171-2018

Occupancy Classification: A3 (ASSEMBLY)

Type of Construction: TYPE V, UNPROTECTED, UNSPRINKLERED

Table 506.2 Allowable Area Factor:
Assembly, Type V, NS = 6,000 SF

Section 506.2.1 Single Occupancy, Single Story: N/A
 $A_u = A_t + (NS \times I_t)$ $I_t = [F/P - .25]w/30$
 $A_u = 9000 + (9000 \times .74)$ $I_t = [.99 - .25]30/30$
 $A_u = 15,660$ $I_t = .74$
Allowable increase: 15,660 SF

Square Footage: 48 total square feet (NEW)
3,645 SF (EXISTING)
3,693 SF TOTAL

Table 601 Requirements - TYPE V:

Fire-resistance rating requirements for building elements (hour)

Structural frame (Including columns, girders, trusses):	0
Bearing walls:	
Exterior {f}	0
Interior	0
Non-bearing walls and partitions:	
Exterior	See Table 602
Interior {e}	0
Floor Construction: (Including supporting beams and joists)	0
Roof Construction: (Including supporting beams and joists)	0

Table 602
Fire-resistance rating requirements for Exterior Walls
based on Fire Separation Distance {a, d, g}:

Fire Separation Distance – X (feet)	Type of Construction	Group H{e}	Group F-1, M, S-1{f}	Group A, B, E, F-2, I, R{f}, S-2, U{h}
$X < 5\{b\}$	All	3	2	1
$5 < X < 10$	I-A Others	3 2	2 1	1 1
$10 < X < 30$	I-A, I-B II-B, V-B Others	2 1 1	1 0 1	1{c} 0 1{c}
$X \geq 30$	All	0	0	0

Table 1017.2 - Exit Access Travel Distance {a}:

Max. exit travel distance: 200' {c}
Max. length of dead end corridor: 20'

Table 1020.2 - Minimum Corridor Width

Min. corridor width: 44 inches
Section 1006.3.2

Capacity of Means of Egress:

Occupant Load (persons per story)	Min. Number of Exits (per story)
1-500	2
501-1,000	3
1,000+	4

Table 716.1(2)
OPENING FIRE PROTECTION ASSEMBLIES,
RATINGS AND MARKING:

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING (HOURS)	MIN FIRE DOOR AND FIRE SHUTTER ASSEMBLY RATING (HOURS)
Fire walls and fire barriers having a required fire-resistance rating greater than 1 hour	4	3
	3	3a
	2	1 ½
	1 ½	1 ½
Enclosures for shafts, interior exit stairways and interior exit ramps.	2	1 ½
Horizontal exits in fire walls {d}	4 3	3 3{a}
Fire barriers having a required fire-resistance rating of 1 hour: Enclosures for shafts, exit access stairways, exit access ramps, interior exit stairways, interior exit ramps and exit passageway walls	1	1
Other fire barriers	1	¾
Fire partitions: Corridor walls	1 0.5	¾ {b} ¾ {b}
Other fire partitions	1 0.5	¾ ¾
Exterior walls	3	1 ½
	2	1 ½
	1	¾
Smoke barriers	1	¾

TITLE SHEET:

ARCHITECTURAL:

A1.0 GENERAL INFORMATION
A2.0 SITE PLAN
A2.1 FLOOR PLAN
A3.1 EXTERIOR ELEVATIONS

7-A-23-UR
Revised: 6/26/2023

ABBREVIATIONS

A: AND	F: FIRE ALARM	N: NONCOMBUSTIBLE
@ AT	FD FLOOR DRAIN	NC NOT IN CONTRACT
ABV ABOVE	FE FIRE EXTINGUISHER	No NUMBER
A/C AIR CONDITIONING	FEC FIRE EXTINGUISHER CABINET	N/A NOT APPLICABLE
ATC ACOUSTICAL TILE CEILING	FHC FIRE HOSE CABINET	NTS NOT TO SCALE
AD ACCESS DOOR	FS FIRE STANDPIPE	
ADDL ADDITIONAL	FFE FINISH FLOOR ELEVATION	
ADI ADJACENT	FFL FINISH FLOOR LINE	
AFI ABOVE FINISH FLOOR	FIN FINISHED	
A/HU AIR HANDLING UNIT	FIN FL FINISH FLOOR	
ALUM ALUMINUM	FLUOR FLUORESCENT	
ALT ALTERNATE	FOF FACE OF FINISH	
AP ACCESS PANEL	FOS FACE OF STUD	
	FURR FURR (ED) (ING)	
B: BOARD		
BD BUILDING	G: GALVANIZED	P: PRECAST
BLK BLOCK	GL GLASS, GLAZING	PL PLASTER
BLKG BLOCKING	GFRC GLASS FIBER REINF. CONC.	PLY PLYWOOD
B.M. BENCH MARK	GL BLK GLASS BLOCK	PISLAM PLASTIC LAMINATE
BM BEAM	GR GRADE	PLUMB PLUMBING
BRG BEARING	GYP BD GYPSUM BOARD	PRELIM PRELIMINARY
BRG PL BEARING PLATE	GCMU GLAZED CONCRETE MASONRY UNIT	
C: CATCH BASIN	H: HANDICAPPED	R: RADIUS, RISER
CMU CONCRETE MASONRY UNIT	H/C HOLLOW CORE	RE REFERENCE
CI CURB INLET	HC HAND, HEAD	RD ROOF DRAIN
CIP CAST-IN-PLACE CONCRETE	HDW HARDWARE	REFL REFLECTED
CLG CEILING	HORIZ HOLLOW METAL	REINF REINFORCED
CLO CLOSET	HGT HEIGHT	REQ'D REQUIRED
CLR CLEAR, CLEARANCE	HP HIGH POINT	RES. FLR. RESINOUS FLOORING
COL COLUMN	HR HOUR	RM ROOM
CONC CONCRETE	HSTWY HOISTWAY	RO ROUGH OPENING
CONF CONFERENCE ROOM		RWL RAIN WATER LEADER
CONT CONTINUOUS		
CONTR CONTRACTOR	I: INSULATION	S: SHEET
CORR CORRIDOR	INT INTERIOR	SIM SIMILAR
CPT CARPET	ID INSIDE DIAMETER	SPEC SPECIFICATIONS
CTR CENTER	INV INVERT	SS STAINLESS STEEL
CT CERAMIC TILE	IPS IRON PIPE SIZE	STL STEEL
		STOR STORAGE
		STRUCT STRUCTURE (STRUCTURAL)
D: DETAIL		
DTL DETAIL	I: JANITOR'S CLOSET	T: TREAD
DIA DIAMETER	IT JOINT	T.B. TACK BOARD
DIAG DIAGRAM		TEL TELEPHONE
DIM DIMENSION		T.O.S. TOP OF STEEL
DN DOWN	L: LAMINATE	T.O.W. TOP OF WALL
DR DOOR	LAV LAVATORY	TYP TYPICAL
DS DOWN SPOUT	LH LEFT HAND	
DWG DRAWING	LITL LINTEL	
	LP LIGHT POLE	
	LPT LOW POINT	
E: EACH		
EA EXPANSION JOINT	M: MARBLE	U: UNLESS NOTED OTHERWISE
EJ ELEVATION	MAX MAXIMUM	V: VERT
ELEC ELECTRICAL	M.B. MARKER BOARD	VERT VERTICAL
ELEV ELEVATION	MFR MANUFACTURER	VIF VERIFY IN FIELD
EMER EMERGENCY	MECH MECHANICAL	
EOS EDGE OF SLAB	MIN MINIMUM	W: WIDTH
EQUIP EQUIPMENT	MTL METAL	W WATER CLOSET
EWV ELECTRIC WATER COOLER	MO MASONRY OPENING	WH WATER HEATER
EXIST EXISTING	MISC MISCELLANEOUS	w/ WITH
		WWF WELDED WIRE FABRIC

SYMBOLS

	EARTH		SURFACE ELEVATION (PLAN)
	CRUSHED STONE		LEVEL LINE (ELEVATION / SECTION)
	CONC. MASONRY UNITS		COLUMN LINE
	BRICK		BUILDING / WALL SECTION
	STONE		DETAIL SHEET REFERENCE
	FERROUS MATERIALS		EXTERIOR ELEVATIONS
	CONCRETE - PRECAST		INTERIOR ELEVATIONS
	CONCRETE - CAST-IN-PLACE		DOOR NUMBER
	PLYWOOD		ROOM NUMBER AND NAME
	WOOD - ROUGH		WINDOW TYPE
	WOOD - FINISH		ACCESSORY TYPE
	INSULATION - BATT		REVISION NUMBER AND DATE
	INSULATION - RIGID		ENLARGED DETAIL
	GYPSUM BOARD		SLOPE OR DIRECTION INDICATOR
	ACOUSTICAL TILE		
	CERAMIC TILE		
	PLASTER		
	MARBLE		
	LIMESTONE		
	GRANITE		
	CARPET		

GENERAL NOTES:

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS PREVAIL. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS PRIOR TO BIDDING AND SHALL BE FAMILIAR WITH ALL ASPECTS OF THE JOB, INCLUDING SITE UTILITIES.
3. ALL DIMENSIONS ARE TO FACE OF STUD, CENTERLINE OF COLUMN, FACE OF MASONRY OR CONCRETE, EDGE OF WALK OR FACE OF CURB UNLESS NOTED OTHERWISE. FOR FURTHER DIMENSIONING, SEE LARGE SCALE PLANS, SECTIONS, EXTERIOR ELEVATIONS, INTERIOR ELEVATIONS, AND DETAILS.
4. IN CASE OF DIMENSIONAL DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS, CONTACT ARCHITECT FOR CLARIFICATION.
5. ITEMS NOT INCLUDED IN GENERAL CONTRACTOR'S CONTRACT ARE MARKED "N.I.C." (NOT IN CONTRACT) AND SHALL BE PERFORMED BY OWNER'S OWN FORCES.
6. THE CONTRACTOR SHALL PROVIDE CHASES FOR MECHANICAL, PLUMBING, AND ELECTRICAL AS REQUIRED AND AS NECESSARY, SEE RESPECTIVE DRAWING SECTIONS.
7. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STARWAYS, EQUIPMENT ROOMS, AND THE POWERHOUSE. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT PRIOR TO LOCATING AND/OR PROVIDING "FURRED SPACES" NOT INDICATED IN THE DRAWINGS.
8. FOR ALL RATED AND/OR SMOKE PARTITIONS, THE SURFACE AREA OF AN INDIVIDUAL RECESSED METALLIC OUTLET, SWITCH BOX, ETC. SHALL NOT EXCEED 16 SQUARE INCHES. THE AGGREGATE SURFACE AREA OF THE RECESSED OUTLETS, BOXES, ETC. SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET OF WALL AREA. RECESSED BOXES LOCATED ON OPPOSITE SIDES OF WALLS OR PARTITIONS, REGARDLESS OF THEIR VERTICAL SEPARATION ON THE WALL, SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES MINIMUM.
9. ALL RATED PARTITIONS SHALL BE TIGHTLY SEALED TO THE UNDERSIDE OF STRUCTURAL DECK. INTEGRITY OF PARTITIONS SHALL BE MAINTAINED AT CORNERS AND AT INTERSECTIONS OF OTHER PARTITION TYPES.
10. PENETRATIONS IN RATED PARTITIONS FOR CONDUIT, PIPING OR OTHER COMBUSTIBLE ITEMS SHALL BE FILLED WITH AN APPROVED NON-COMBUSTIBLE MATERIAL TO PROVIDE AN APPROVED SEAL TO PROHIBIT THE PASSAGE OF FIRE AND SMOKE.
11. PROVIDE WOOD BLOCKING AS REQUIRED FOR ALL WALL MOUNTED EQUIPMENT OR ACCESSORIES. NAILERS, BLOCKING, AND OTHER ROUGH CARPENTRY ITEMS IN RATED ASSEMBLIES SHALL BE TREATED FOR FIRE RESISTANCE.
12. PROVIDE METAL STUD FRAMING AROUND ALL PENETRATIONS THROUGH METAL STUD/GYPSUM BOARD WALLS.
13. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF TYPE SPECIFIED ARE INSTALLED IN WALLS AND NON-ACCESSIBLE TYPE CEILINGS AND SOFFITS WHERE ACCESS, SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL ITEMS MAY BE REQUIRED. ACCESS PANELS SHALL BE THE FIRE RATED TYPE EQUAL TO THE RATING OF THE WALL, SOFFIT OR CEILING IN WHICH THEY OCCUR.
14. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, CABINET WORK, RECESSED TOILET ACCESSORIES, SURFACE MOUNTED TOILET ACCESSORIES, ETC. WITH ADJACENT MATERIAL EVEN THOUGH JOINT MAY NOT BE VISIBLE.
15. ALL CASEWORK DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION.

REFLECTED CEILING PLAN NOTES

1. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE REFLECTED CEILING PLANS WITH THE ELECTRICAL LIGHTING PLANS, WITH THE MECHANICAL PLANS, AND WITH THE FIRE PROTECTION PLANS, AND HE SHALL REPORT TO THE ARCHITECT ANY ERROR, INCONSISTENCY OR OMISSION THAT HE MAY DISCOVER.
2. ALL CEILINGS SHALL BE 2'x2' AND 2'x4' SUSPENDED ACOUSTICAL TILE UNLESS NOTED OTHERWISE. TILE SHALL BE LAID OUT EXACTLY AS INDICATED. CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
3. REFER TO ROOM FINISH SCHEDULE AND ALL PERTINENT DETAILS FOR CEILING HEIGHTS. HEIGHTS INDICATED SHALL BE MEASURED FROM FINISHED FLOOR LEVEL DIRECTLY BELOW.
4. ALL SOFFITS AND CEILING HEIGHTS INDICATED SHALL BE MEASURED FROM BOTTOM OF FINISH MATERIAL TO FINISH FLOOR ELEVATION DIRECTLY BELOW.
5. ALL DIMENSIONS SHOWN ON THIS PLAN ARE FINISH DIMENSIONS.
6. ALL GRIDS NOT SPECIFICALLY LOCATED SHALL BE CENTERED IN SPACE AS SHOWN - CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF APPROPRIATE SIZE AND TYPE ARE INSTALLED IN GYPSUM BOARD CEILINGS OR SOFFITS AND IN OTHER NON-ACCESSIBLE TYPE CEILINGS OR SOFFITS WHERE ACCESS, SERVICE, OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS MAY BE REQUIRED. ACCESS PANELS SHALL BE THE FIRE RATED TYPE EQUAL TO THE RATING OF THE CEILING OR SOFFIT IN WHICH THEY OCCUR.
8. ONLY CEILING MOUNTED EXIT LIGHTS ARE SHOWN ON THE REFLECTED CEILING PLANS. SEE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF WALL MOUNTED EXIT LIGHTS.
9. SEE THE ELECTRICAL DRAWINGS AND/OR THE COMMUNICATIONS DRAWINGS FOR LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, SPEAKERS, FIRE ALARM DEVICES, ETC.



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GENERAL INFORMATION
AND NOTES

REVISIONS:

7-A-23-UR
Revised: 6/26/2023

DATE: 6/26/2023

FILE NAME: Stables - 10

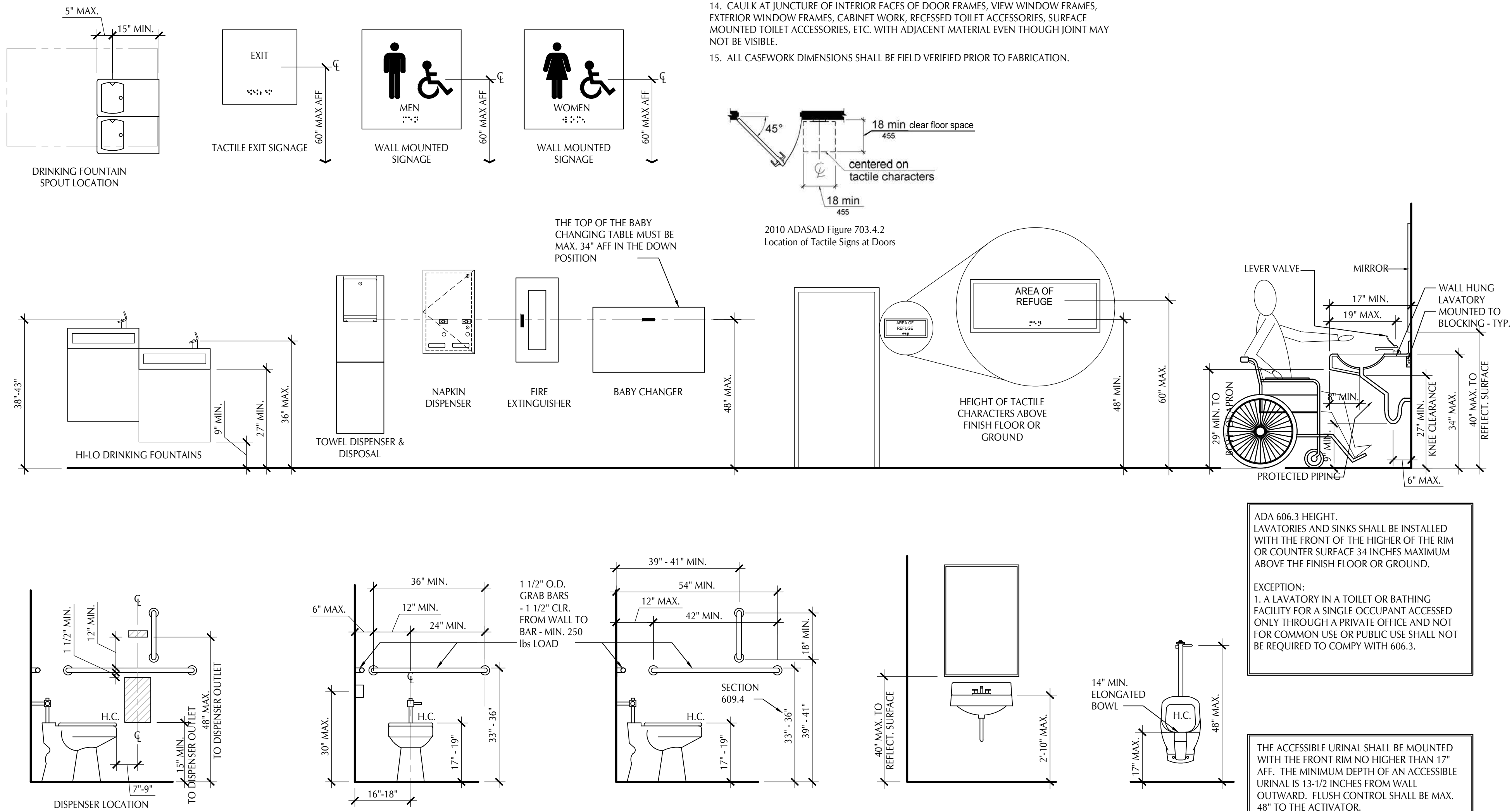
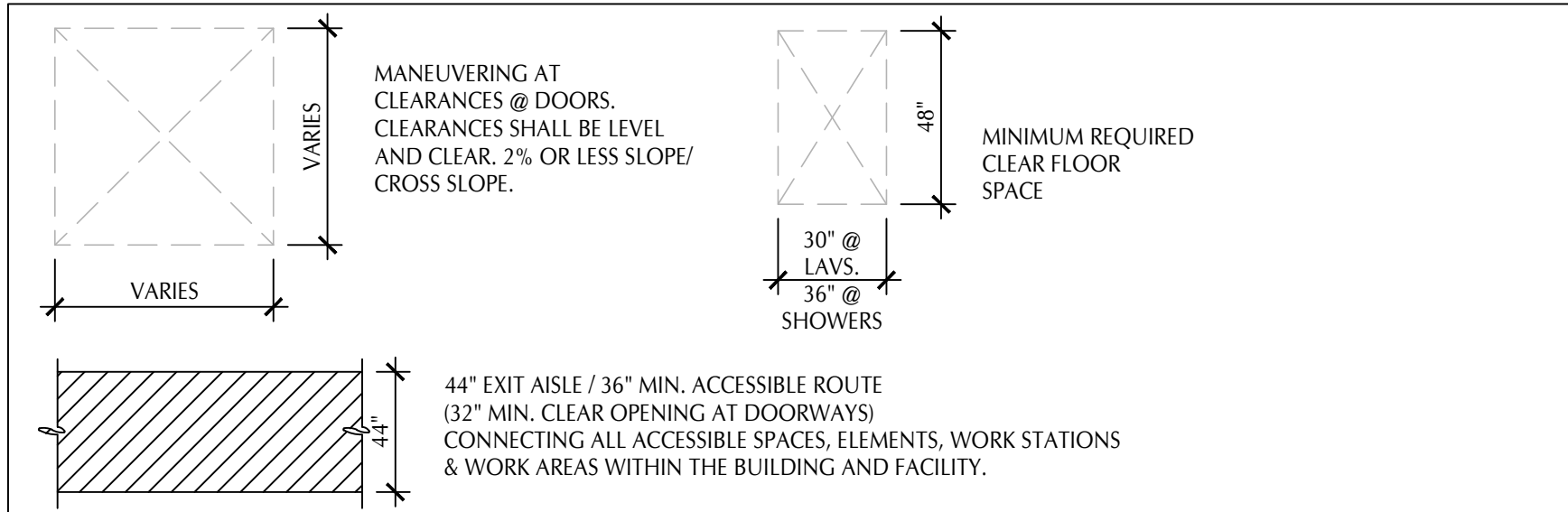
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ADA NOTES

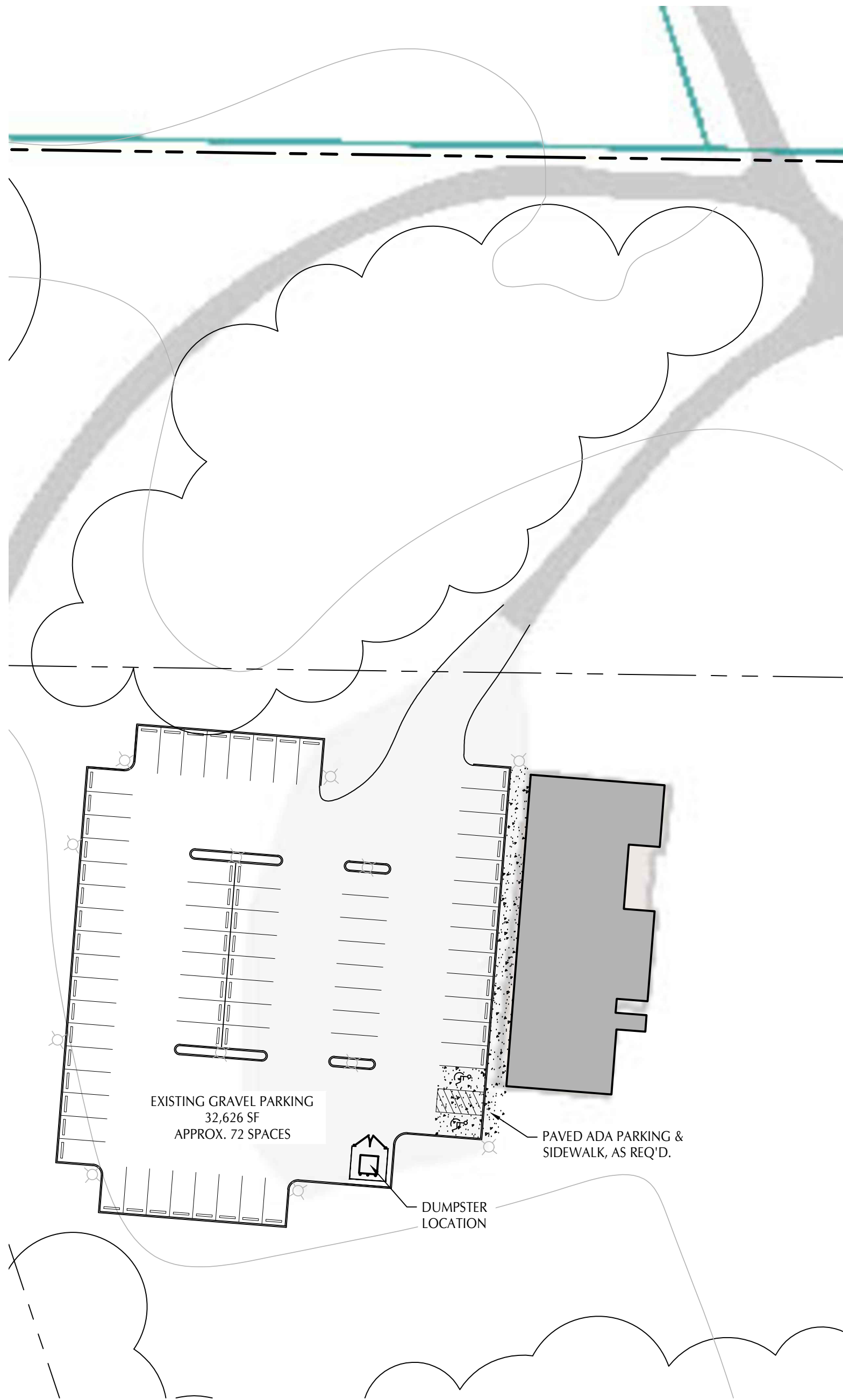
- **** HOT LINE TELEPHONE NUMBER - (800)-949-4ADA ****
1. SIGNS MARKING ACCESSIBLE PARKING SPACES SHALL BE INSTALLED SO THAT THE BOTTOM OF THE SIGN IS 84" MINIMUM IN HEIGHT. ONE OR MORE SHALL IDENTIFY THE VAN ACCESSIBLE SPACE.
 2. ALL CROSS SLOPES THAT ARE A PORTION OF THE ACCESSIBLE ROUTE SHALL BE A MAXIMUM OF 2%.
 3. ALL ACCESSIBLE PATHS OF TRAVEL TO BE LEVEL. KITCHEN FLOOR SLOPES UNDER THE PATH OF TRAVEL TO BE LESS THAN 1:20. CROSS SLOPES SHALL NOT BE GREATER THAN 1:48 OR 1/4" PER FOOT.
 4. ARROWS INDICATE DIRECTION OF FLOOR SLOPE TO DRAINS - SLOPE NOT TO EXCEED 2%.
 5. ALL TELEVISIONS SHALL BE HUNG NO LOWER THAN 80" A.F.F. (INCLUDING CORDS).
 6. ALL TELEVISION SETS SHALL BE EQUIPPED AND UTILIZE CLOSED CAPTION TV, MIN. OF ONE SHALL BE SET TO DISPLAY.
 7. TABLES SHALL BE A MINIMUM OF 27" CLEAR A.F.F. AND HAVE A CLEAR AREA OF AT LEAST 19" DEEP.
 8. COAT HOOKS IN THE TOILET STALLS SHALL BE MTD. TO THE WALLS OF THE STALLS (NOT THE DOOR) AT 48" A.F.F. IN ACCESSIBLE STALLS AND 60" IN STANDARD STALLS. (STANDARD STALLS MAY HAVE HOOKS ON DOORS)
 9. FLUSH VALVES ON THE TOILETS SHALL ALWAYS BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL. UTILIZE 5 LBS. OF FORCE OR LESS TO OPERATE.
 10. ALL PANIC HARDWARE SHALL BE MTD. NO HIGHER THAN 48" A.F.F.
 11. ALL FLOOR DRAINS SHALL BE LOCATED OUT OF THE PATH OF TRAVEL SO THAT THE FLOOR DOES NOT HAVE A SLOPE GREATER THAN 2% ALONG AN ACCESSIBLE ROUTE.
 12. ALL THRESHOLDS, FLOOR LEVEL CHANGES AND FLOOR TRANSITIONS SHALL NOT EXCEED 1/2" IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
 13. ALL LIGHT SWITCHES, VOLUME CONTROLS, AND THERMOSTATS IN PUBLIC AREAS SHALL BE MTD. NO HIGHER THAN 48" A.F.F. WHEN MOUNTED ON THE SPLASH WALL BEHIND A COUNTER, THE MOUNTING HEIGHT FOR SWITCHES, DISPENSERS AND OTHER USER OPERABLE PARTS ARE 44" AFF FOR FORWARD REACH AND 46" AFF FOR SIDE REACH.
 14. ALL RAMPS MUST BE A MAXIMUM OF 1" PER FOOT (1:12) SLOPE.
 15. ALL DOOR HARDWARE TO BE ADA COMPLIANT.

LEGEND



1
1.0
TYPICAL ACCESSIBLE MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"

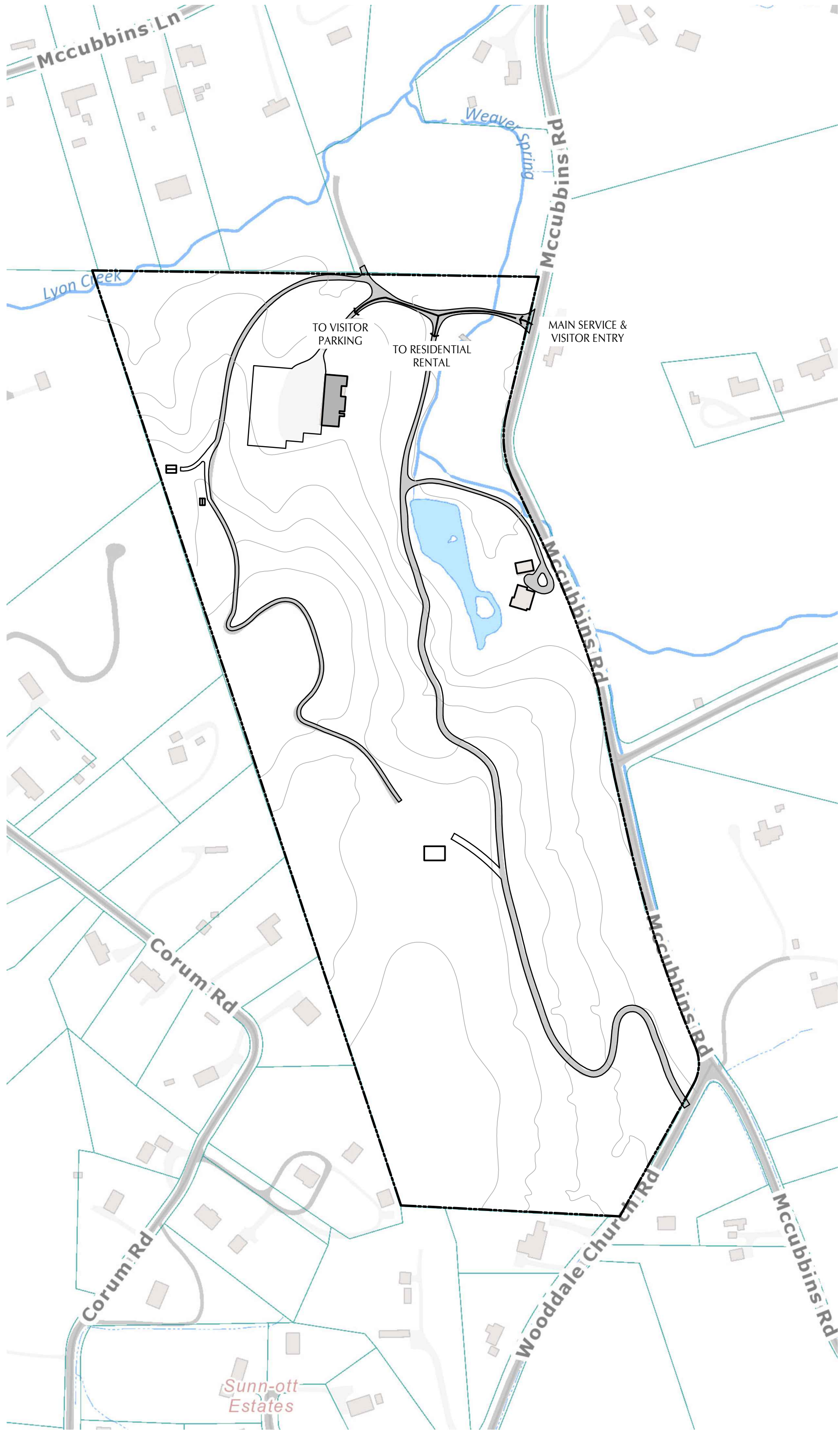
** SEE FLOOR PLAN FOR LOCATIONS OF ACCESSIBLE FIXTURES, NOT ALL CONDITIONS MAY APPLY



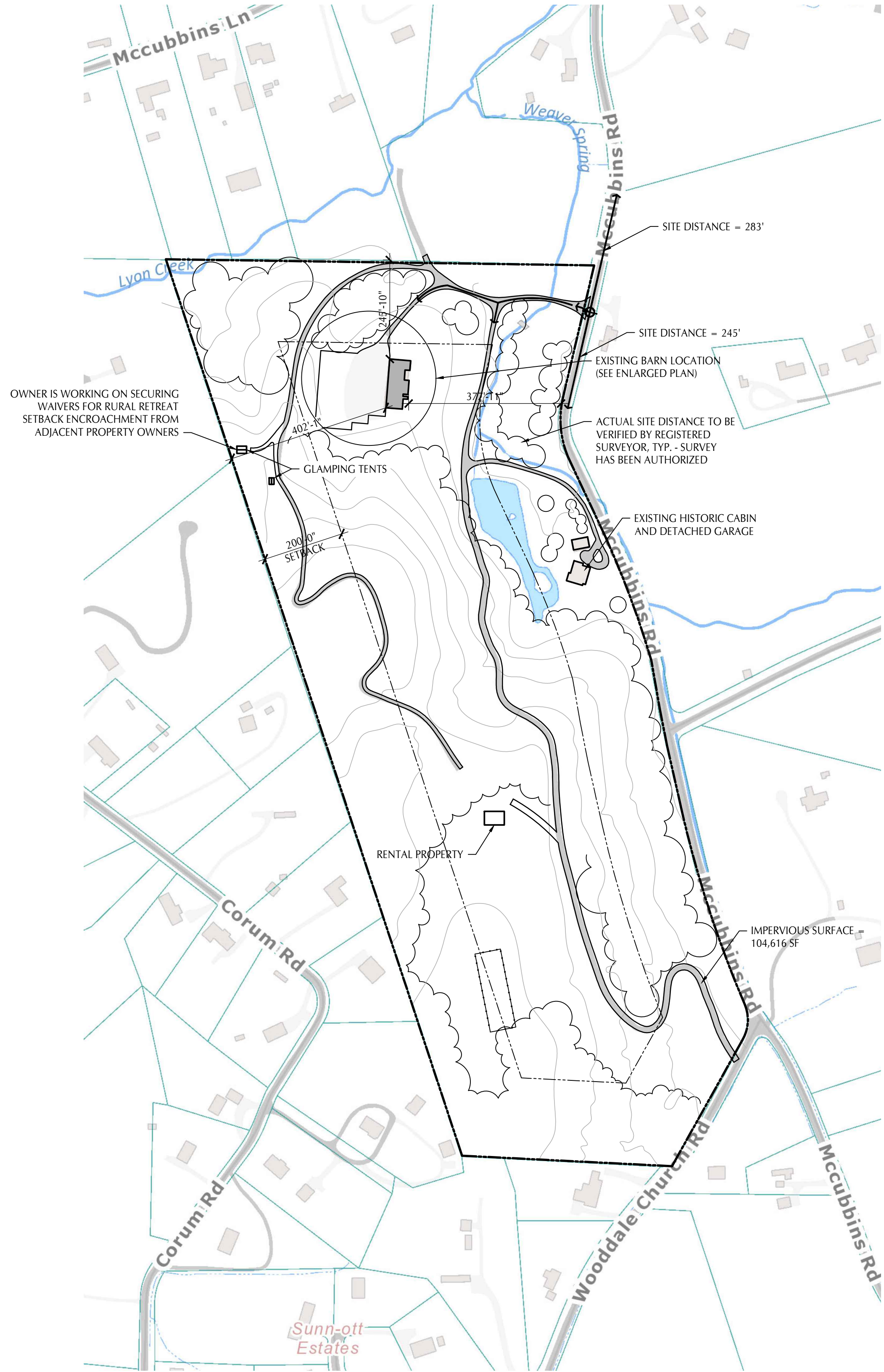
3 ENLARGED SITE PLAN
2.0 SCALE: 1 : 40

PROPOSED USE: EVENT VENUE

- BUILDING SETBACKS: 377'-11" FRONT
245'-10" SIDE
402'-1" BACK
- EXISTING GRAVEL DRIVEWAYS AND PAVING AREAS TO REMAIN
- NO CHANGES DUE TO GRADING OR DRAINAGE - EXISTING TO REMAIN



2 SITE PLAN - CIRCULATION
2.0 SCALE: 1 : 200



1 SITE PLAN
2.0 SCALE: 1 : 200



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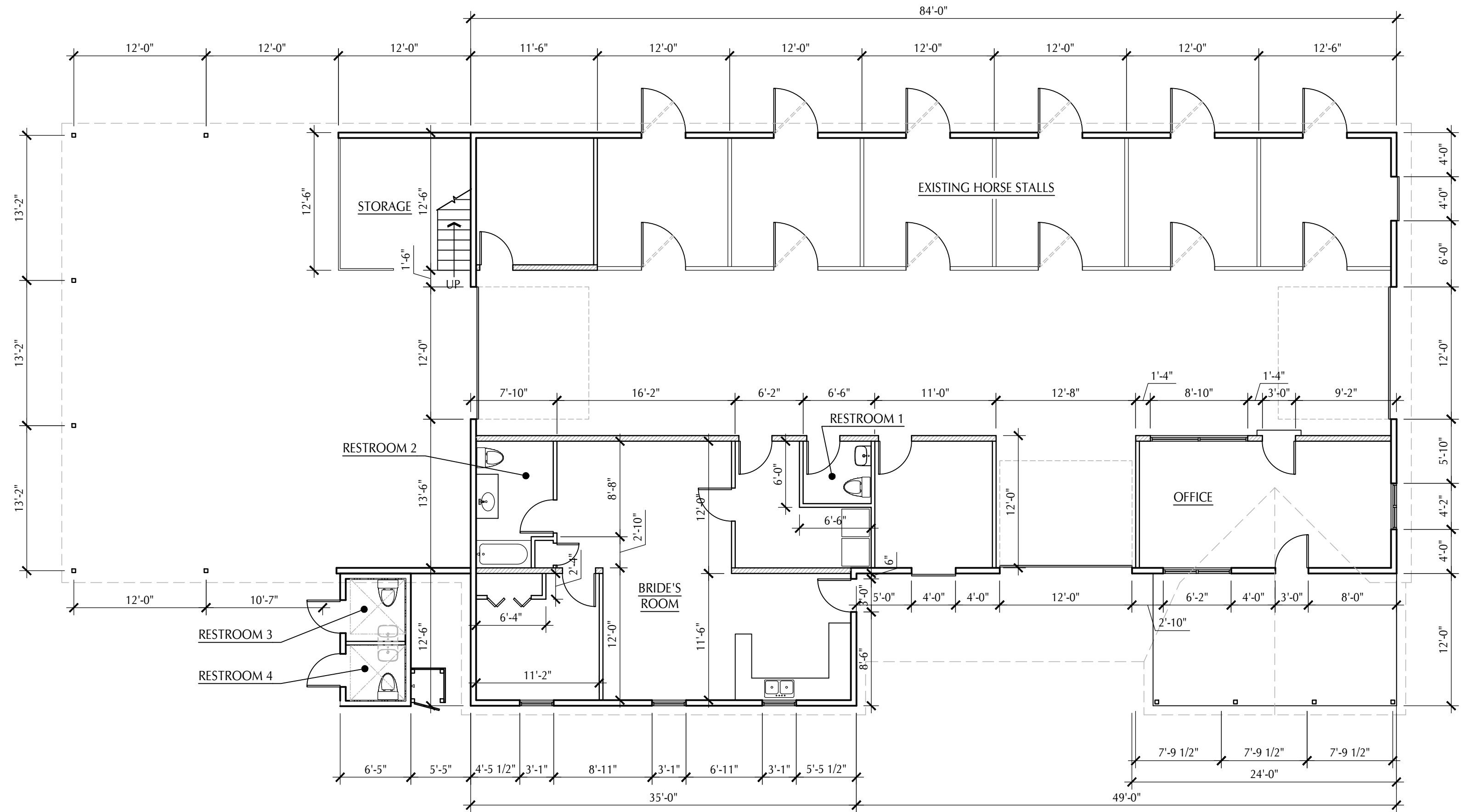
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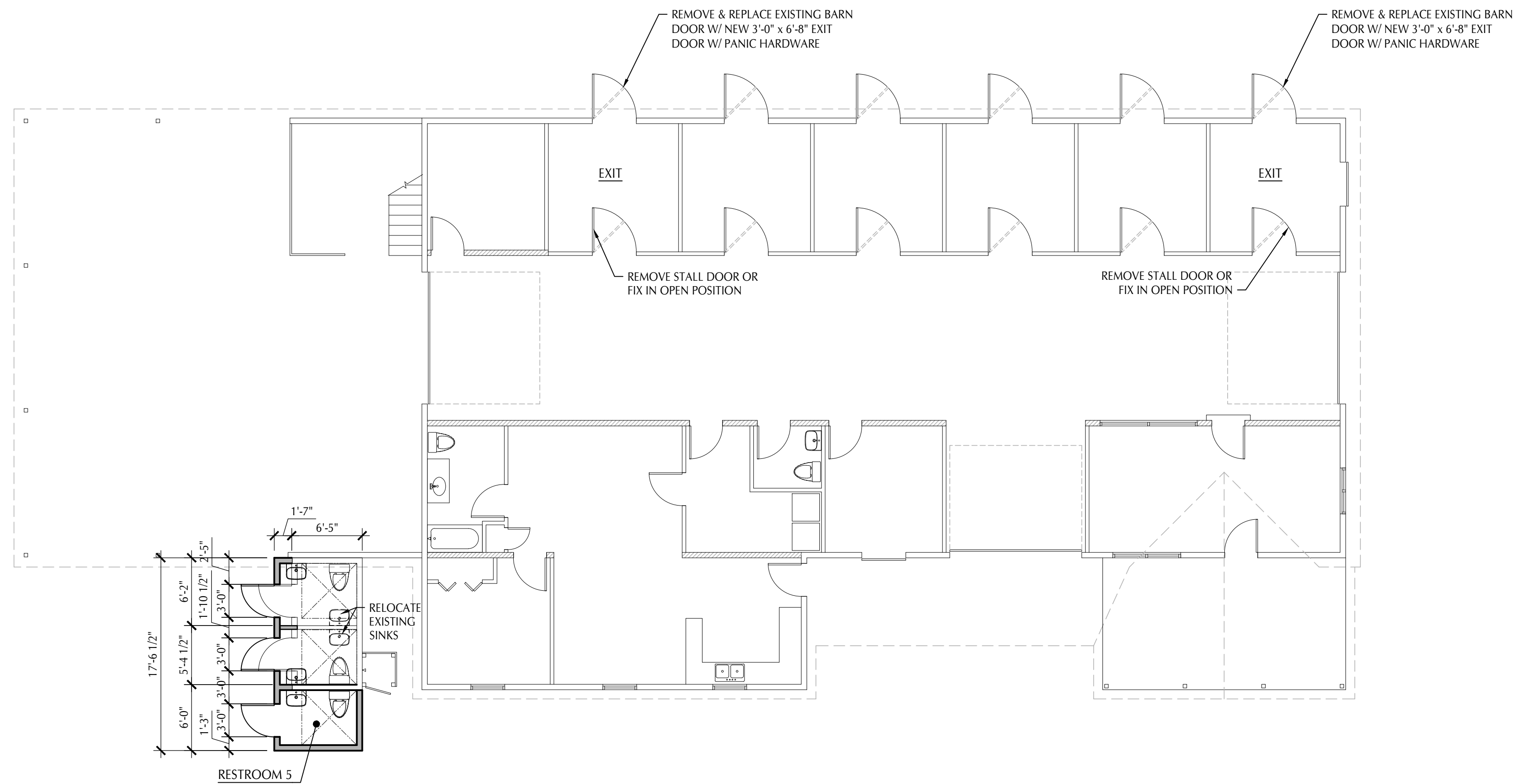
SITE PLAN

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1 FLOOR PLAN - EXISTING
2.1 SCALE: 1/8" = 1'-0"



2 FLOOR PLAN - PROPOSED
2.1 SCALE: 1/8" = 1'-0"

NOTE: AMPLIFICATION USED ON SITE SHALL NOT EXCEED FORTY (40) DECIBELS (dB) BETWEEN THE HOURS OF 9:00 PM AND 9:00 AM, AND SHALL NOT EXCEED FIFTY (50) DECIBELS (dB) AT ANY OTHER TIME

OCCUPANCY	
DISCRPTION	OCCUPANTS
OUTDOOR ASSEMBLY	86 OCCUPANTS
OUTDOOR STORAGE	1 OCCUPANTS
INDOOR ASSEMBLY	93 OCCUPANTS
INDOOR STORAGE	1 OCCUPANTS
OFFICE	10 OCCUPANTS
TOTAL	191 OCCUPANTS
PARKING	
REQUIRED	PROVIDED
64 SPACES	72 SPACES

PLOT SCALE: AS NOTED



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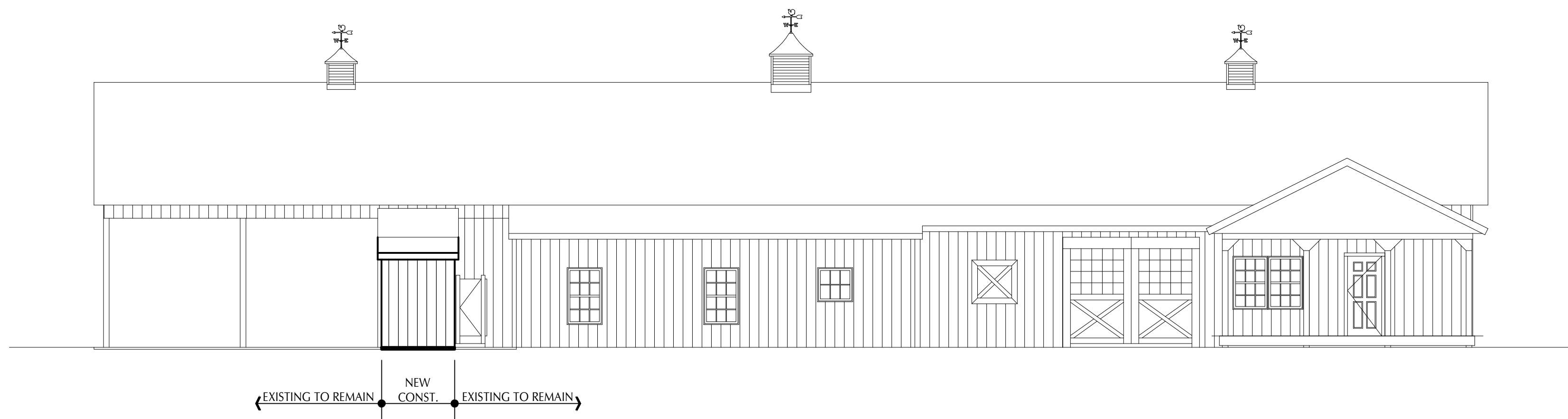
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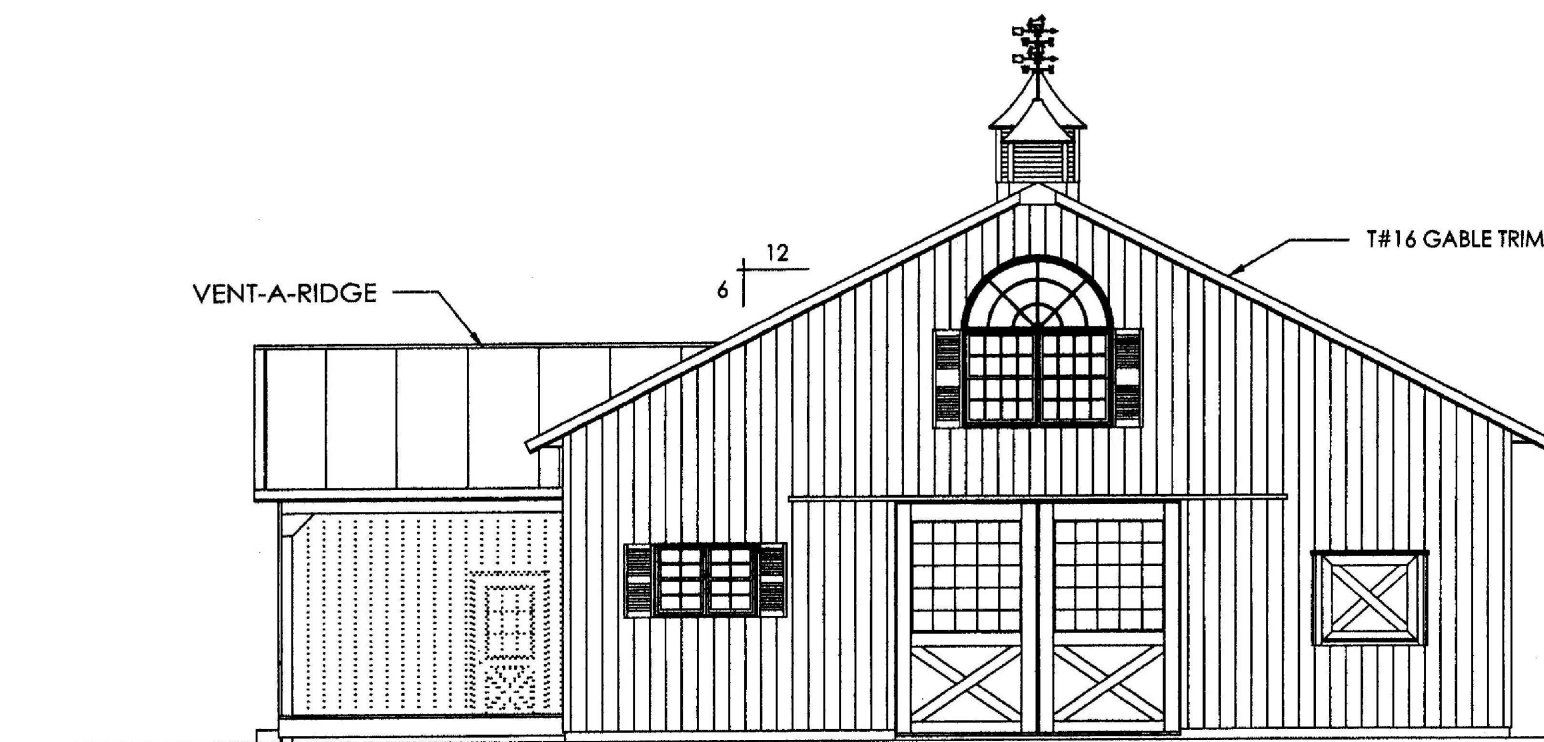
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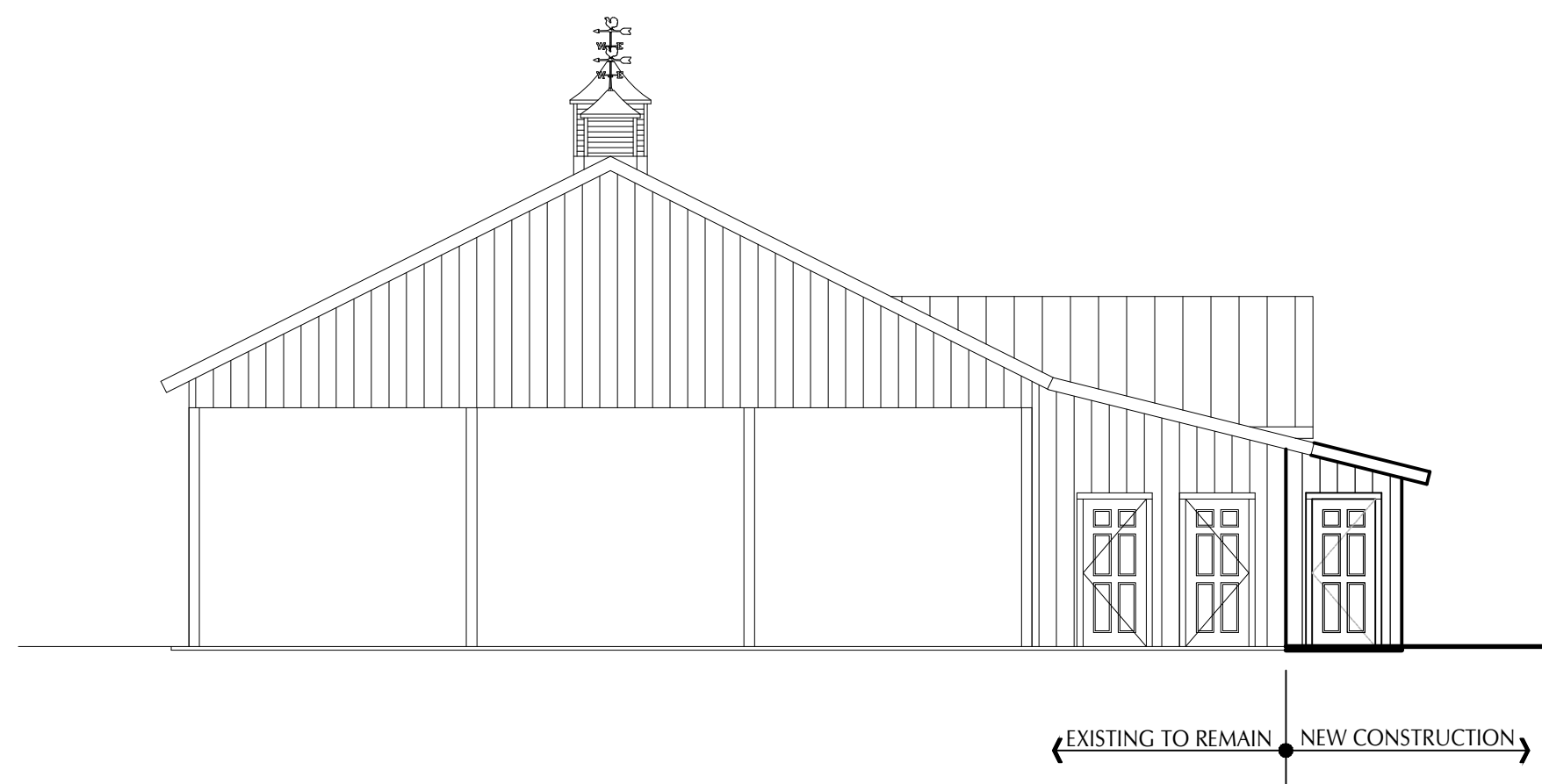
PLOT SCALE: AS NOTED



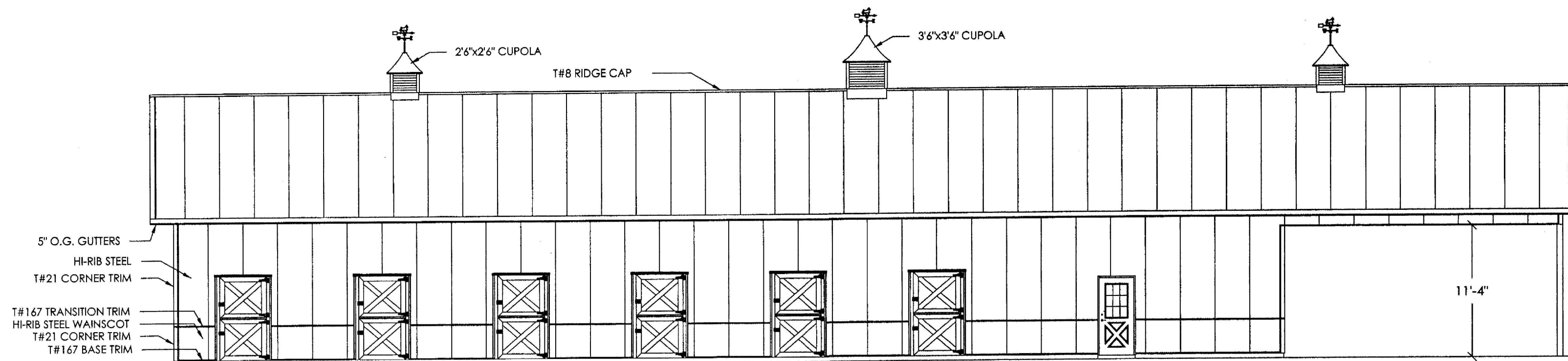
1
3.1 EXTERIOR ELEVATION - WEST
SCALE: 1/8" = 1'-0"



3
3.1 EXTERIOR ELEVATION - SOUTH
SCALE: 1/8" = 1'-0"



2
3.1 EXTERIOR ELEVATION - NORTH
SCALE: 1/8" = 1'-0"



4
3.1 EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0"



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ARC1 LED

Architectural Wall Luminaire



7-A-23-UR
Revised: 6/26/2023

Catalog
Number

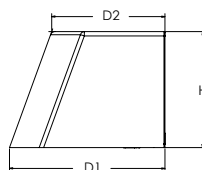
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1): 6.5"
Depth (D2): 4.75"
Height: 5"
Width: 11"
Weight: 7 lbs
(without options)



Introduction

The Lithonia Lighting ARC LED wall-mounted luminaires provide both architectural styling and visually comfortable illumination while providing the high energy savings and low initial costs for quick financial payback.

ARC1 delivers up to 3,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of ARC1, with its integrated emergency battery backup option, is ideal for over-the-door applications.

ARC LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Approximate Lumens (4000K)				
			P1	P2	P3	P4	P5
ARC1 LED	4W	--	1,500	2,000	3,000	--	--
ARC2 LED	4W	8W	1,500	2,000	3,000	4,000	6,500

Ordering Information

EXAMPLE: ARC1 LED P2 40K MVOLT PE DDBXD

Series	Package	Color Temperature	Voltage	Options	Finish
ARC1 LED	P1 1,500 Lumens	30K 3000K	MVOLT 347 ¹	E4WH Emergency battery backup, CEC compliant (4W, 0°C min) ¹	DDBXD Dark bronze
	P2 2,000 Lumens	40K 4000K		PE Button type photocell for dusk-to-dawn operation	DBLXD Black
	P3 3,000 Lumens	50K 5000K		DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) ²	DNAXD Natural aluminum
				SPD6KV 6kV surge protection	DWHXD White
				FAO Field adjustable light output device. Allows for easy adjustment to the desired light levels, from 20% to 100% ²	DSSXD Sandstone
					DDBTXD Textured dark bronze
					DBLBXD Textured black
					DNATXD Textured natural aluminum
					DWHGXD Textured white
					DSSTXD Textured sandstone

Accessories

Ordered and shipped separately.

WSBBW DDBXD U

Surface - mounted back box (specify finish)

NOTES

- 347V not available with E4WH.
- FAO not available with DMG.



COMMERCIAL OUTDOOR

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ARC1 LED
Rev. 03/02/22

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. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	30K (3000K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
		Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	11W	1,376	127	0	0	0	1,454	134	0	0	0	1,464	135	0	0	0
P2	17W	2,035	121	1	0	1	2,151	128	1	0	1	2,165	129	1	0	1
P3	25W	2,859	117	1	0	1	3,021	123	1	0	1	3,041	124	1	0	1

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	11W	0.111	0.061	0.053	0.047	0.045
P2	17W	0.139	0.081	0.071	0.063	0.060
P3	25W	0.208	0.122	0.108	0.097	0.081

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Lumens
E4WH	620

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	1.04
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 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.

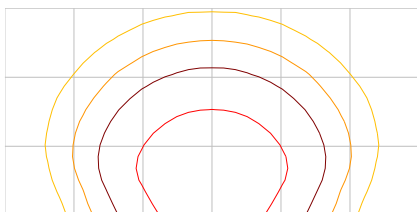
Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	0.97	>0.96	>0.95	>0.91

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting ARC LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND

 0.25 fc
 0.5 fc
 1.0 fc
 3.0 fc



MH = 10ft
Grid = 10ft x 10ft

ARC1 LED P3 40K

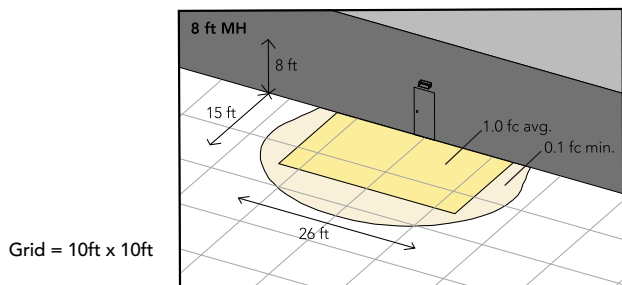
Emergency Egress Options

Emergency Battery Backup

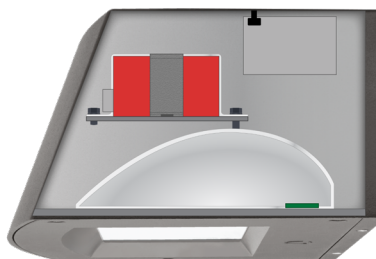
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode.



ARC1 LED 40K MVOLT E4WH



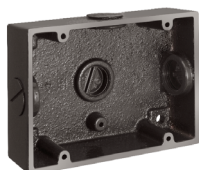
Self-contained solution for clean aesthetic

Mounting, Options & Accessories



E4WH – 4W Emergency Battery Backup

D = 6.5"
H = 5"
W = 11"



BBW – Standard Back Box

D = 1.5"
H = 4"
W = 5.5"

For surface conduit applications.
3/4" conduit entry holes.

FEATURES & SPECIFICATIONS

INTENDED USE

The clean architectural shape of the ARC LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long-life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The die-cast aluminum housing and door act as heat sinks to optimize thermal transfer from the light engine and driver to promote long-life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Recessed lens to cut off high angle light and reduce glare. Combination of diffused lens and reflector design has low surface brightness creating a visually comfortable environment with great distribution. LEDs are fully hidden from view to eliminate pixelization and harsh glare. The ARC LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long-life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire is 0-10V dimmable.

INSTALLATION

The universal wall plate, supplied with the luminaire, fits multiple size junction boxes and supports the luminaire during wiring for easy installation. Built-in wet location wiring compartment on the luminaire to accommodate wiring connections for where there is no junction box. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International DarkSky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only. Rated for -40°C minimum ambient.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.





D-Series Size 1 LED Wall Luminaire



Buy American

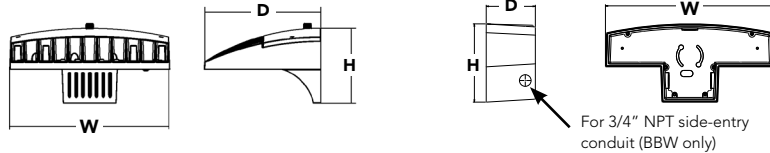
d-series

Specifications Luminaire

Width:	13-3/4" (34.9 cm)	Weight:	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		

Back Box (BBW, E20WC)

Width:	13-3/4" (34.9 cm)	BBW Weight:	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	E20WC Weight:	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED							
Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines) ¹	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) ¹	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT ² 120 ³ 208 ³ 240 ³ 277 ³ 347 ^{3,4} 480 ^{3,4}	Shipped included (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry) ⁵	Shipped installed PE Photoelectric cell, button type ⁶ DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR 180° motion/ambient light sensor, <15' mtg ht ^{1,7} PIRH 180° motion/ambient light sensor, 15-30' mtg ht ^{1,7} PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{1,7} PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{1,7} E20WC Emergency battery backup (includes external component enclosure), CA Title 20 compliant ^{8,9}

Other Options	Finish (required)
Shipped installed SF Single fuse (120, 277 or 347V) ^{3,10} DF Double fuse (208, 240 or 480V) ^{3,10} HS House-side shield ¹¹ SPD Separate surge protection ¹²	Shipped separately ¹¹ BSW Bird-deterrent spikes VG Vandal guard DDL Diffused drop lens DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXWTVG U	Vandal guard accessory

NOTES

- 20C 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- Reference Motion Sensor table on page 3.
- Same as old ELCW. Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com
- Not available with SPD.
- Not available with E20WC.
- Also available as a separate accessory; see Accessories information.
- Not available with E20WC.



COMMERCIAL OUTDOOR

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DSXW1-LED
Rev. 3/07/22

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Contact factory for performance data on any configurations not shown here.

7-A-23-UR

Revised: 6/26/2023

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70CRI)					40K (4000 K, 70CRI)					50K (5000 K, 70CRI)					AMBPC (Amber Phosphor Converted)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	350mA	13W	T2S	1,415	0	0	1	109	1,520	0	0	1	117	1,530	0	0	1	118	894	0	0	1	69
			T2M	1,349	0	0	1	104	1,448	0	0	1	111	1,458	0	0	1	112	852	0	0	1	66
			T3S	1,399	0	0	1	108	1,503	0	0	1	116	1,512	0	0	1	116	884	0	0	1	68
			T3M	1,385	0	0	1	107	1,488	0	0	1	114	1,497	0	0	1	115	876	0	0	1	67
			T4M	1,357	0	0	1	104	1,458	0	0	1	112	1,467	0	0	1	113	858	0	0	1	66
	530 mA	19W	TFTM	1,411	0	0	1	109	1,515	0	0	1	117	1,525	0	0	1	117	892	0	0	1	69
			T2S	2,053	1	0	1	108	2,205	1	0	1	116	2,220	1	0	1	117	1,264	0	0	1	67
			T2M	1,957	1	0	1	103	2,102	1	0	1	111	2,115	1	0	1	111	1,205	0	0	1	63
			T3S	2,031	1	0	1	107	2,181	1	0	1	115	2,194	1	0	1	115	1,250	0	0	1	66
			T3M	2,010	1	0	1	106	2,159	1	0	1	114	2,172	1	0	1	114	1,237	0	0	1	65
	700 mA	26W	T4M	1,970	1	0	1	104	2,115	1	0	1	111	2,129	1	0	1	112	1,212	0	0	1	64
			TFTM	2,047	0	0	1	108	2,198	1	0	1	116	2,212	1	0	1	116	1,260	0	0	1	66
			T2S	2,623	1	0	1	101	2,816	1	0	1	108	2,834	1	0	1	109	1,544	0	0	1	59
			T2M	2,499	1	0	1	96	2,684	1	0	1	103	2,701	1	0	1	104	1,472	0	0	1	57
			T3S	2,593	1	0	1	100	2,785	1	0	1	107	2,802	1	0	1	108	1,527	0	0	1	59
	1000 mA	39W	T3M	2,567	1	0	1	99	2,757	1	0	1	106	2,774	1	0	1	107	1,512	0	0	1	58
			T4M	2,515	1	0	1	97	2,701	1	0	1	104	2,718	1	0	1	105	1,481	0	0	1	57
			TFTM	2,614	1	0	1	101	2,808	1	0	1	108	2,825	1	0	1	109	1,539	0	0	1	59
			T2S	3,685	1	0	1	94	3,957	1	0	1	101	3,982	1	0	1	102	2,235	1	0	1	57
			T2M	3,512	1	0	1	90	3,771	1	0	1	97	3,794	1	0	1	97	2,130	1	0	1	55
20C (20 LEDs)	350mA	23W	T3S	3,644	1	0	1	93	3,913	1	0	1	100	3,938	1	0	1	101	2,210	1	0	1	57
			T3M	3,607	1	0	1	92	3,873	1	0	1	99	3,898	1	0	1	100	2,187	1	0	1	56
			T4M	3,534	1	0	2	91	3,796	1	0	2	97	3,819	1	0	2	98	2,143	1	0	1	55
			TFTM	3,673	1	0	1	94	3,945	1	0	1	101	3,969	1	0	1	102	2,228	1	0	1	57
	530 mA	35W	T2S	2,820	1	0	1	123	3,028	1	0	1	132	3,047	1	0	1	132	1,777	1	0	1	77
			T2M	2,688	1	0	1	117	2,886	1	0	1	125	2,904	1	0	1	126	1,693	1	0	1	74
			T3S	2,789	1	0	1	121	2,994	1	0	1	130	3,014	1	0	1	131	1,757	0	0	1	76
			T3M	2,760	1	0	1	120	2,965	1	0	1	129	2,983	1	0	1	130	1,739	1	0	1	76
			T4M	2,704	1	0	1	118	2,905	1	0	1	126	2,922	1	0	1	127	1,704	1	0	1	74
	700 mA	46W	TFTM	2,811	1	0	1	122	3,019	1	0	1	131	3,038	1	0	1	132	1,771	0	0	1	77
			T2S	4,079	1	0	1	117	4,380	1	0	1	125	4,407	1	0	1	126	2,504	1	0	1	72
			T2M	3,887	1	0	1	111	4,174	1	0	1	119	4,201	1	0	1	120	2,387	1	0	1	68
			T3S	4,033	1	0	1	115	4,331	1	0	1	124	4,359	1	0	1	125	2,477	1	0	1	71
			T3M	3,993	1	0	2	114	4,288	1	0	2	123	4,315	1	0	2	123	2,451	1	0	1	70
	1000 mA	73W	T4M	3,912	1	0	2	112	4,201	1	0	2	120	4,227	1	0	2	121	2,402	1	0	1	69
			TFTM	4,066	1	0	2	116	4,366	1	0	2	125	4,394	1	0	2	126	2,496	1	0	1	71
			T2S	5,188	1	0	1	113	5,572	1	0	1	121	5,607	1	0	1	122	3,065	1	0	1	67
			T2M	4,945	1	0	2	108	5,309	1	0	2	115	5,343	1	0	2	116	2,921	1	0	1	64
			T3S	5,131	1	0	2	112	5,510	1	0	2	120	5,544	1	0	2	121	3,031	1	0	1	66
			T3M	5,078	1	0	2	110	5,454	1	0	2	119	5,487	1	0	2	119	3,000	1	0	1	65
			T4M	4,975	1	0	2	108	5,343	1	0	2	116	5,376	1	0	2	117	2,939	1	0	1	64
			TFTM	5,172	1	0	2	112	5,554	1	0	2	121	5,589	1	0	2	122	3,055	1	0	1	66
			T2S	7,204	1	0	2	99	7,736	2	0	2	106	7,784	2	0	2	107	4,429	1	0	1	61
			T2M	6,865	1	0	2	94	7,373	2	0	2	101	7,419	2	0	2	102	4,221	1	0	1	58
			T3S	7,125	1	0	2	98	7,651	1	0	2	105	7,698	1	0	2	105	4,380	1	0	1	60
			T3M	7,052	1	0	2	97	7,573	2	0	2	104	7,620	2	0	2	104	4,335	1	0	2	59
			T4M	6,909	1	0	2	95	7,420	1	0	2	102	7,466	1	0	2	102	4,248	1	0	2	58
			TFTM	7,182	1	0	2	98	7,712	1	0	2	106	7,761	1	0	2	106	4,415	1	0	2	60

Performance Data

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	1.00
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED 20C 1000** platform in a **25°C ambient**, based on 10,000 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	0.95	0.93	0.88

Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	24 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	0.15	0.11
	1000	74 W	0.69	0.40	0.35	0.30	0.23	0.17

7-A-23-UR
Revised: 6/26/2023

Motion Sensor Default Settings

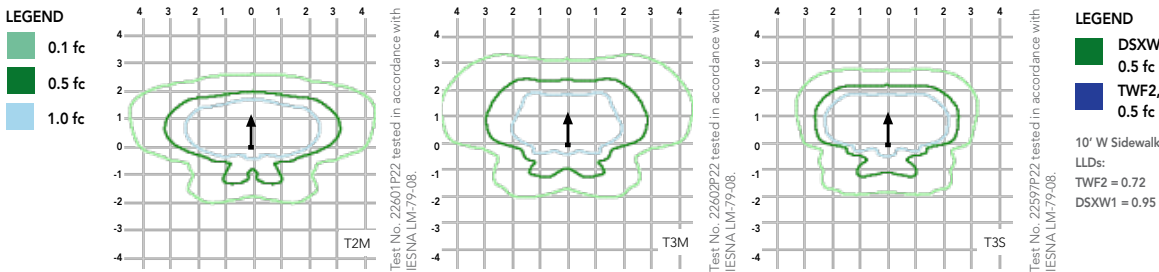
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*For use when motion sensor is used as dusk to dawn control

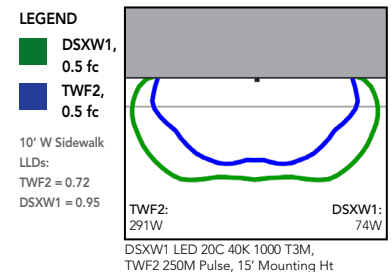
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Wall Size 1 homepage](#).

Isfootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Distribution overlay comparison to 250W metal halide.



Options and Accessories



T3M (left)



HS - House-side shields



BSW - Bird-deterrent spikes



VG - Vandal guard



DDL - Diffused drop lens

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

BUY AMERICAN

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

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.



COMMERCIAL OUTDOOR

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DSXW1-LED
Rev. 3/07/22



WDGE1 LED

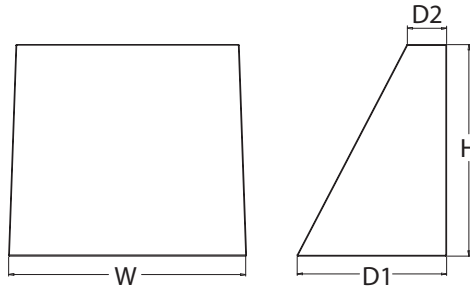
Architectural Wall Sconce



7-A-23-UR
Revised: 6/26/2023

Specifications

Depth (D1): 5.5"
Depth (D2): 1.5"
Height: 8"
Width: 9"
Weight: 9 lbs
(without options)



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that b architecture. The clean rectiline in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

WDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P1	27K 2700K	80CRI	VF Visual comfort forward throw	MVOLT 347 ²	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁵ Shipped separately AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.
	P2	30K 3000K	90CRI	VW Visual comfort wide		
		35K 3500K				
		40K 4000K				
		50K ¹ 5000K				

Options	Finish
E4WH ³ Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)	DDBXD Dark bronze
PE ⁴ Photocell, Button Type	DBLXD Black
DS Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)	DNAXD Natural aluminum
DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DWHXD White
BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DSSXD Sandstone
	DDBTXD Textured dark bronze
	DBLTXD Textured black
	DNATXD Textured natural aluminum
	DWHGXD Textured white
	DSSTXD Textured sandstone

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD U WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE1PBBW DDBXD U WDGE1 surface-mounted back box (specify finish)

NOTES

- 50K not available in 90CRI.
- 347V not available with E4WH, DS or PE.
- E4WH not available with PE or DS.
- PE not available with DS.
- Not qualified for DLC. Not available with E4WH.



COMMERCIAL OUTDOOR

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WDGE1 LED
Rev. 01/04/21

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. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
P2	15W	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
		VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	10W	0.082	0.049	0.043	0.038	--
	13W	--	--	--	--	0.046
P2	15W	0.132	0.081	0.072	0.064	--
	18W	--	--	--	--	0.056

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647

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	1.03
10°C	50°F	1.02
20°C	68°F	1.01
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 platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

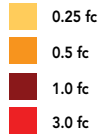
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

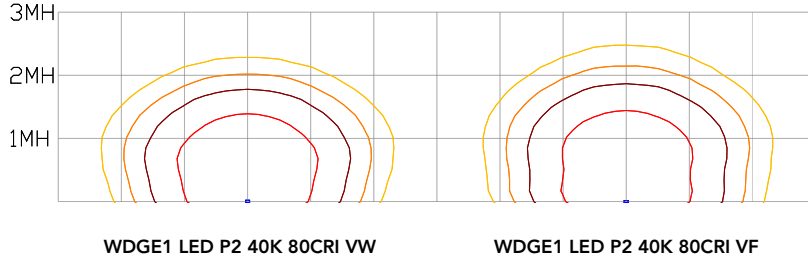
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage.
Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND



MH = 8ft
Grid = 8ft x 8ft



7-A-23-UR
Revised: 6/26/2023

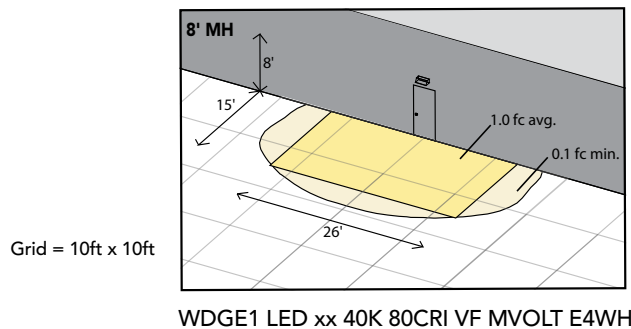
Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

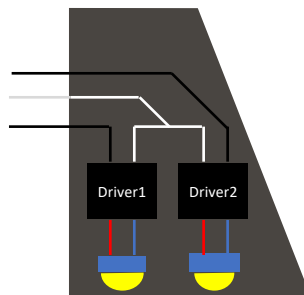
The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.



Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9





E4WH – 4W Emergency Battery Backup

D = 5.5"

H = 8"

W = 9"



PBBW – Surface-Mounted Back Box

Use when there is no junction box available.

D = 1.75"

H = 8"

W = 9"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.