BUILDING ALTERATION / BUILDING ADDITION FOR: BGS GLASS SERVICES

WAUKESHA, WISCONSIN

PROJECT TEAM

OWNER BGS GLASS SERVICES

W314S7944 HIGHVIEW CIRCLE PROJECT CONTACT: SHANNON WILLIAMS MUKWONAGO, WI 53149 PHONE: 262-513-2806

GENERAL CONTRACTOR FORD CONSTRUCTION CO.

1419 POPLAR DRIVE WAUKESHA, WI 53188 PHONE: 262-896-9370 FAX: 262-896-9371

PROJECT CONTACT: JIM WARZINSKI CELL PHONE: 970-903-6639 EMAIL ADDRESS: jim@fordconstructioninc.com

ARCHITECTURAL MORPH DESIGNS, LLC

W10953 DEAD END ROAD **WAUPUN, WI 53963**

PROJECT CONTACT: ROGER SCHREGARDUS EMAIL ADDRESS: cadmanroger@sbcglobal.net

STRUCTURAL / SUPERVISING PROFESSIONAL

CIVIL ENGINEERING ELLENA ENGINEERING CONSULTANTS, LLC

700 PILGRIM PARKWAY, SUITE 100 PROJECT CONTACT: MARK ELLENA ELM GROVE, WI 53122 DIRECT PHONE: (262) 719-6183 EMAIL ADDRESS: mellena@ecceng.com

SHEET INDEX						
SHEET	DESCRIPTION	CITY SUBMITTAL FOR PLAN COMMISSION				
G-100	TITLE SHEET, PROJECT DATA	11-8-2018				
CIVIL ENG						
0100	SITE, PAVING, & DRAINAGE PLAN	11-6-2018				
L-101	SITE, PAVING, & DRAINAGE PLAN LANDSCAPE PLAN	11-6-2018				
		11-6-2018				
L-101	LANDSCAPE PLAN LIGHTING PLAN	11-6-2018				
L-101 LITE	LANDSCAPE PLAN LIGHTING PLAN	11-6-2018				
L-101 LITE ARCHITEC	LANDSCAPE PLAN LIGHTING PLAN TURAL					

SCOPE OF WORK:
BGS GLASS SERVICE IS A COMPANY THAT OFFERS A WIDE VARIETY OF CUSTOM GLASS REPAIR AND INSTALLATION SERVICES **INCLUDING:** HOME WINDOW REPLACEMENT **CUSTOM FINISHED SHOWER DOORS** COMMERCIAL GLAZING DECORATIVE GLASS THERMOPANE REPLACEMENT **CABINET GLASS**

THE EXISTING BUILDING IS A MIX OF RETAIL/SALES IN THE FRONT / SOUTH PORTION OF THE FACILITY. THE SHOP & STORAGE IS IN THE REAR / NORTH SIDE OF THE FACILITY. THIS ADDITION IS TO EXPAND THE SHOP & STORAGE

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PROJECT DATA:

BUILDING CODE:

2015 INTERNATIONAL BUILDING CODE (IBC), USING WISCONSIN SPS 362 AMENDMENTS 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC), USING WISCONSIN SPS 366 AMENDMENTS 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), USING WISCONSIN SPS 363 AMENDMENTS AMERICAN NATIONAL STANDARDS (ICC/ANSI A117.1-2009)

PLUMBING CODE:

WISCONSIN COMMERCIAL BUILDING CODE CHAPTER 81-84

MECHANICAL CODE:

2015 INTERNATIONAL MECHANICAL CODE

ELECTRICAL CODE:

FIRE / LIFE SAFETY CODE:

NFPA-1 2015

BUILDING SIZE;

EXISTING BUILDING FOOTPRINT: 7,000 sqft **EXISTING BUILDING MEZZANINE:** 913 saft **NEW ADDITION FOOTPRINT:** 4,505 sqft

TOTAL BUILDING FOOTPRINT: 11,505 sqft

12,000 sqft (2 STORIES USING F-1 OCCUPANCY) PER TABLE 503 ALLOWABLE AREA:

BUILDING DATA:

COUNTY LOCATION: WAUKESHA

PROJECT TYPE: LEVEL 2 ALTERATION / ADDITION

REQUIRED SEPARATION: UNSEPARATED USES

CONSTRUCTION CLASSIFICATION;

PER IBC 602 -

NEW BUILDING: TYPE IIIB - METAL FRAME W/ COMBUSTIBLE INTERIOR & COMBUSTIBLE EXTERIOR FRAMING, 1 STORY WITH COMPLETE, NFPA 13 AUTOMATIC SPRINKLER SYSTEM

OCCUPANCY CLASSIFICATION;

PER IBC 311 -BUILDING - F-1 FACTORY, S-1 STORAGE, B BUSINESS (ACCESSORY USE)

EXIT DISTANCE:

PER IBC TABLE 1016.1 - 250 FT. DISTANCE (SPRINKLERED BUSINESS / S-1 STORAGE) IBC 1014.3 COMMON PATH OF TRAVEL - 100'-0" (SPRINKLERED BUSINESS / S-1 STORAGE) IBC 1018.4 DEAD ENDS - 50'-0" (SPRINKLERED BUSINESS / S-1 STORAGE)

ENVELOPE COMPLIANCE ENERGY CODE USED:

90.1 (2013) ASHRAE STANDARD

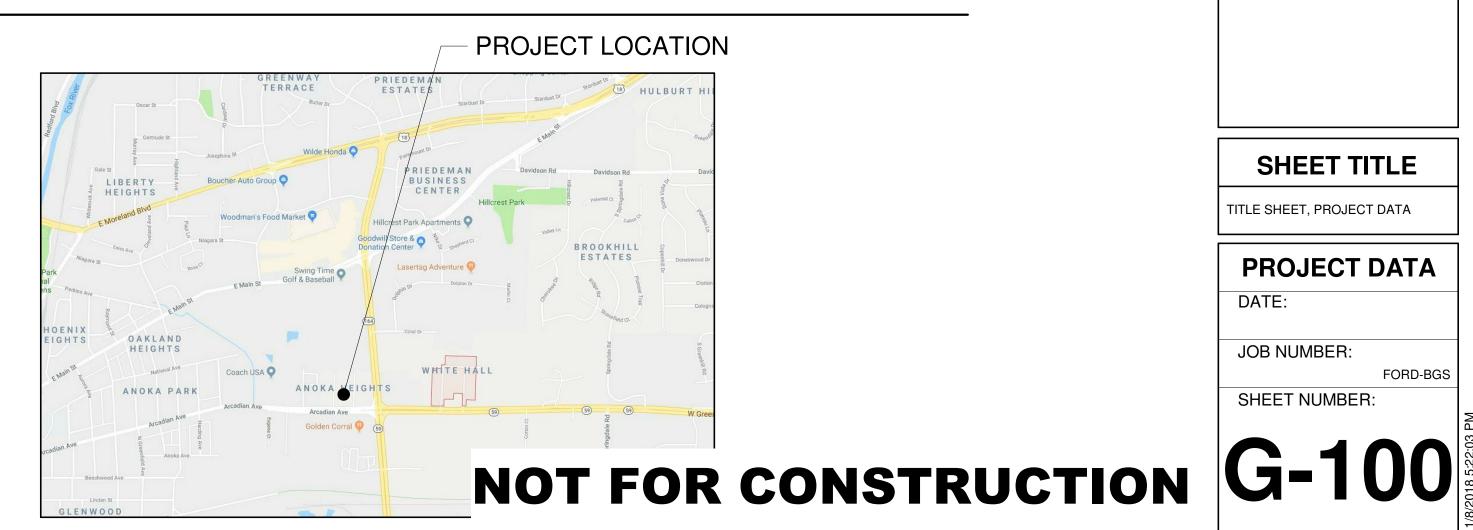
2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), USING WISCONSIN SPS 363 AMENDMENTS

() URINAL MEN's () WC () LAV WOMEN's -() WC () LAV

MOP SINK

DRINKING FOUNTAINS (HI-LOW)

LOCATION MAP



DESIGNS,

PRELIMINARY

SHEET TITLE

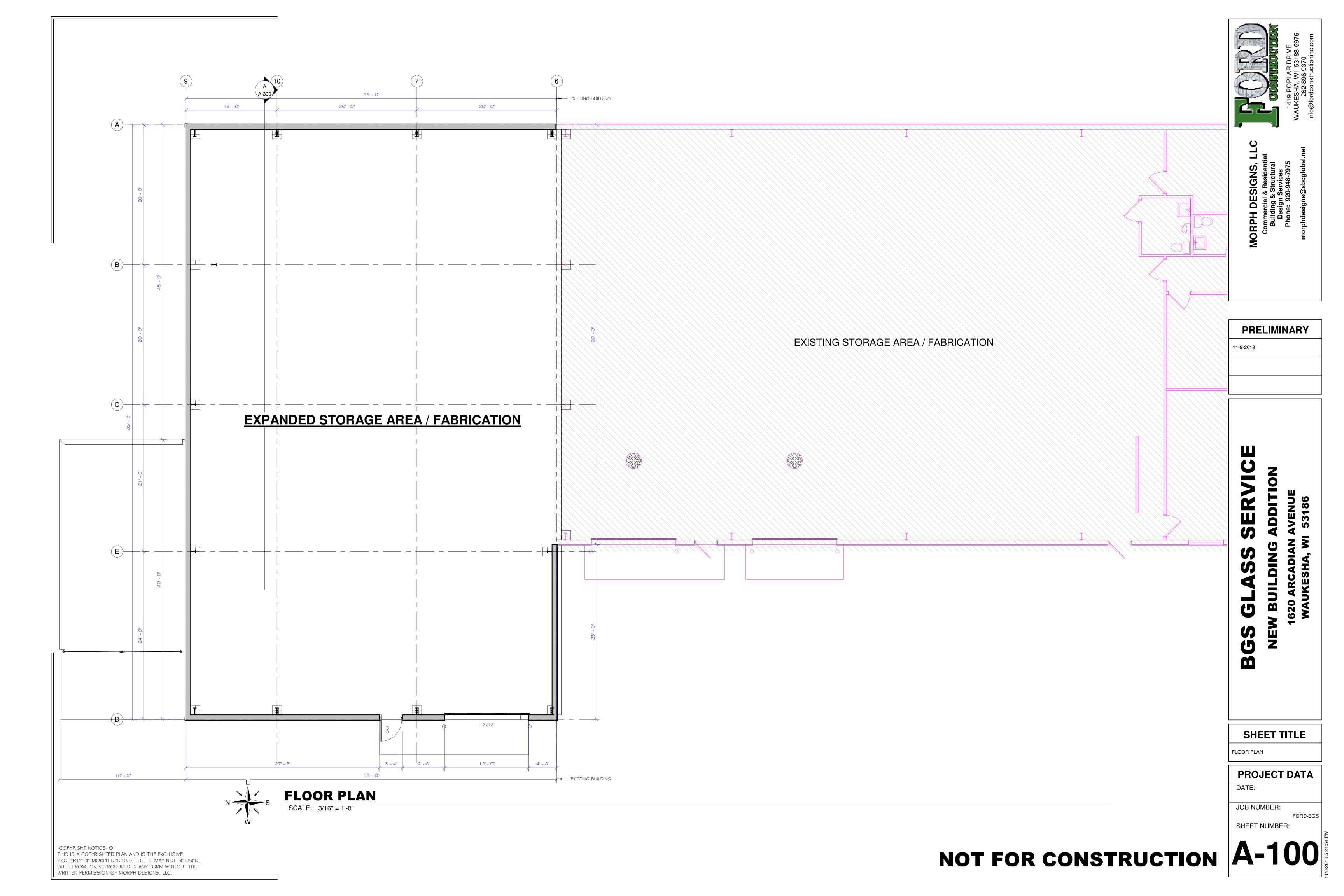
TITLE SHEET, PROJECT DATA

JOB NUMBER:

M

PROJECT DATA DATE:

> FORD-BGS SHEET NUMBER:

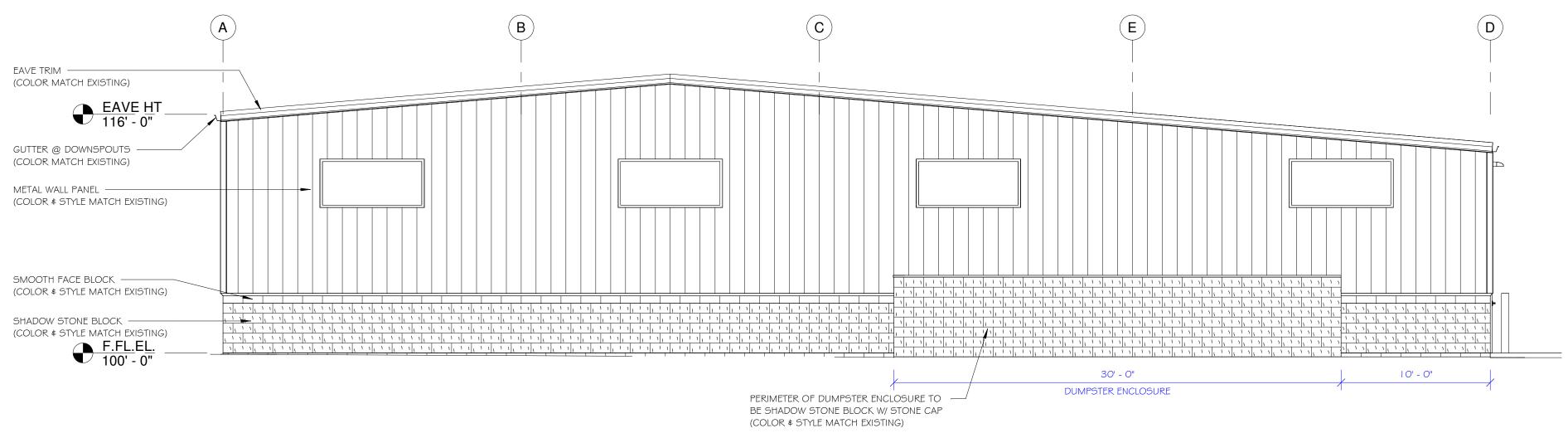




STEEL PIPE FRAME W/ COMPOSITE WOOD FINISH BOARDS **WEST BUILDING ELEVATION**

SCALE: 3/16" = 1'-0"

GATES OF DUMPSTER ENCLOSURE TO BE



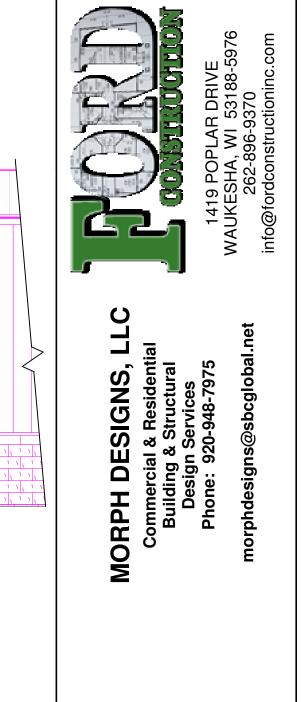
NORTH BUILDING ELEVATION

SCALE: 3/16" = 1'-0"



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NOT FOR CONSTRUCTION A-200



PRELIMINARY

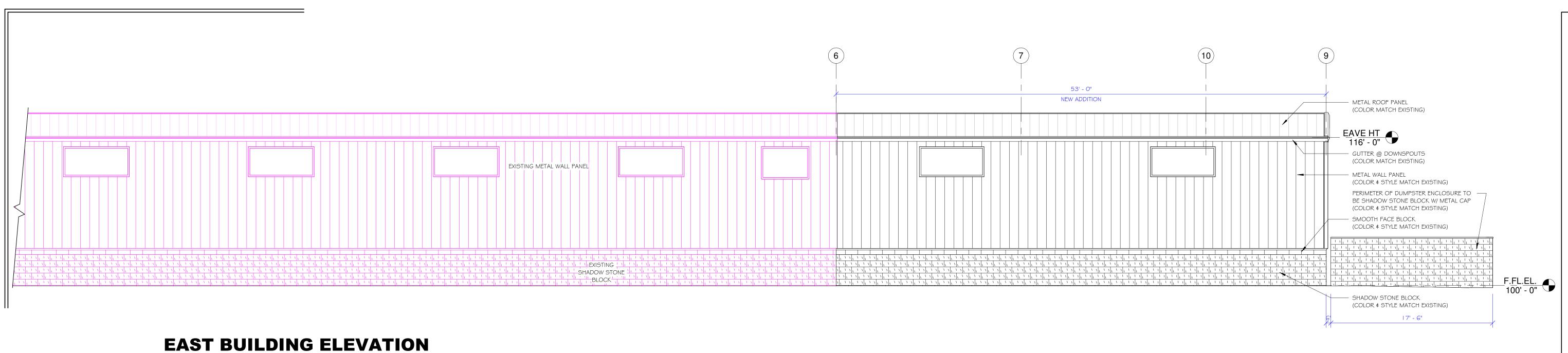
11-8-2018

SHEET TITLE

EXTERIOR BUILDING ELEVATIONS

PROJECT DATA DATE:

JOB NUMBER: SHEET NUMBER:



PRELIMINARY

11-8-2018

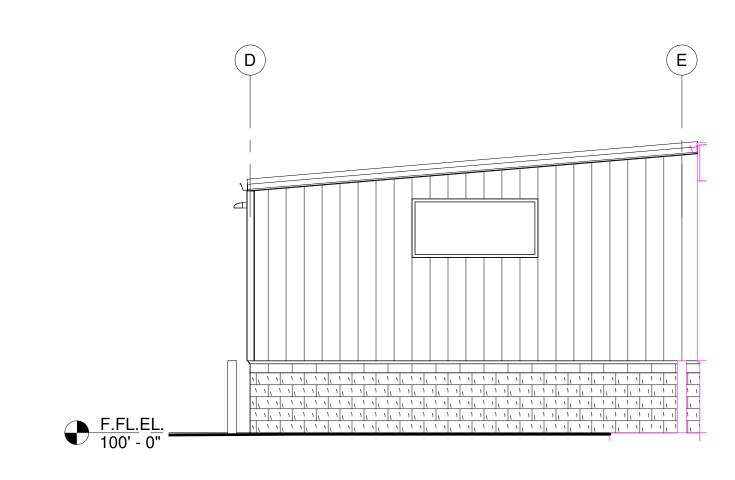
SHEET TITLE

EXTERIOR BUILDING ELEVATIONS

PROJECT DATA DATE:

JOB NUMBER: SHEET NUMBER:

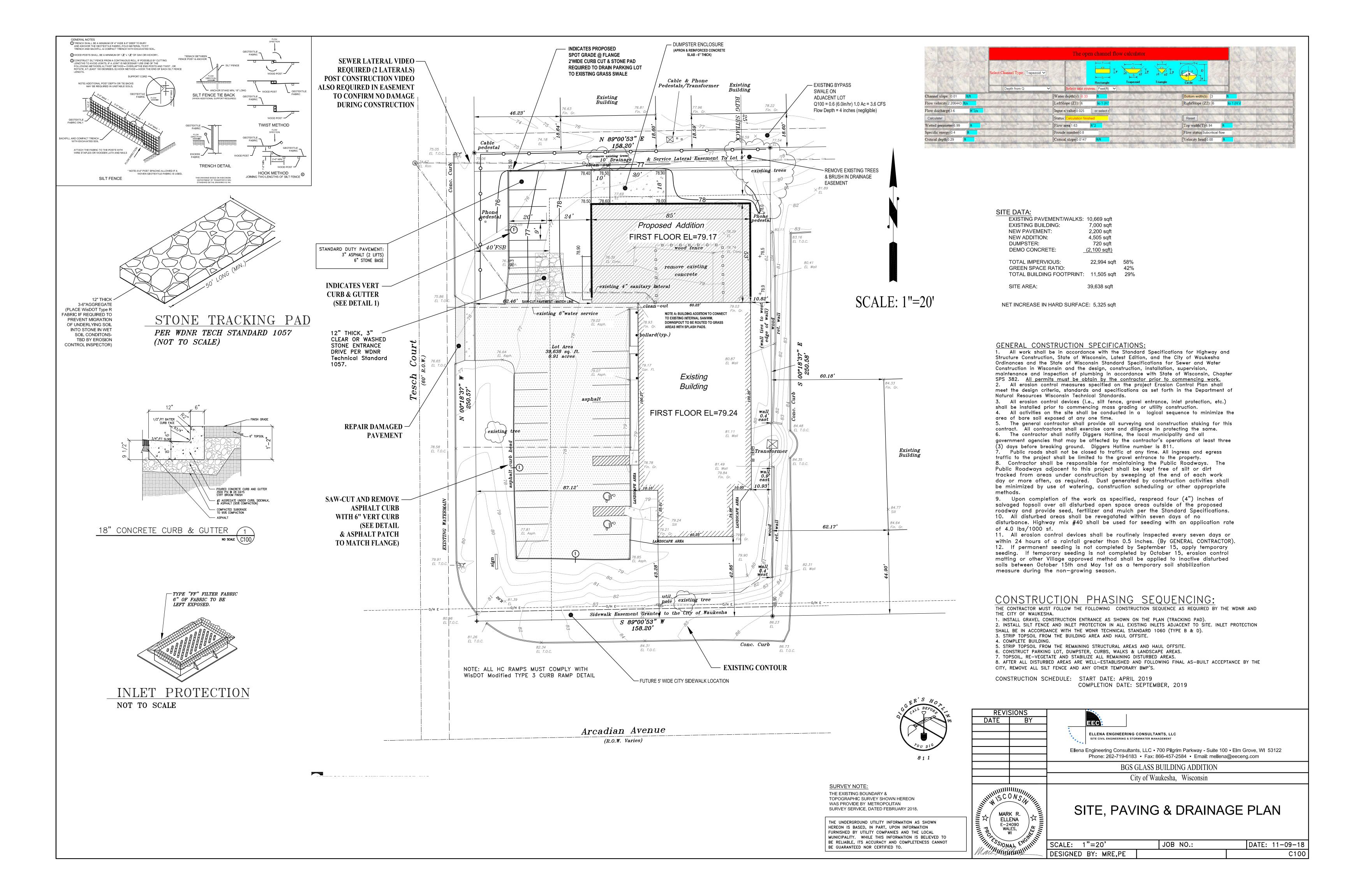
SCALE: 3/16" = 1'-0"

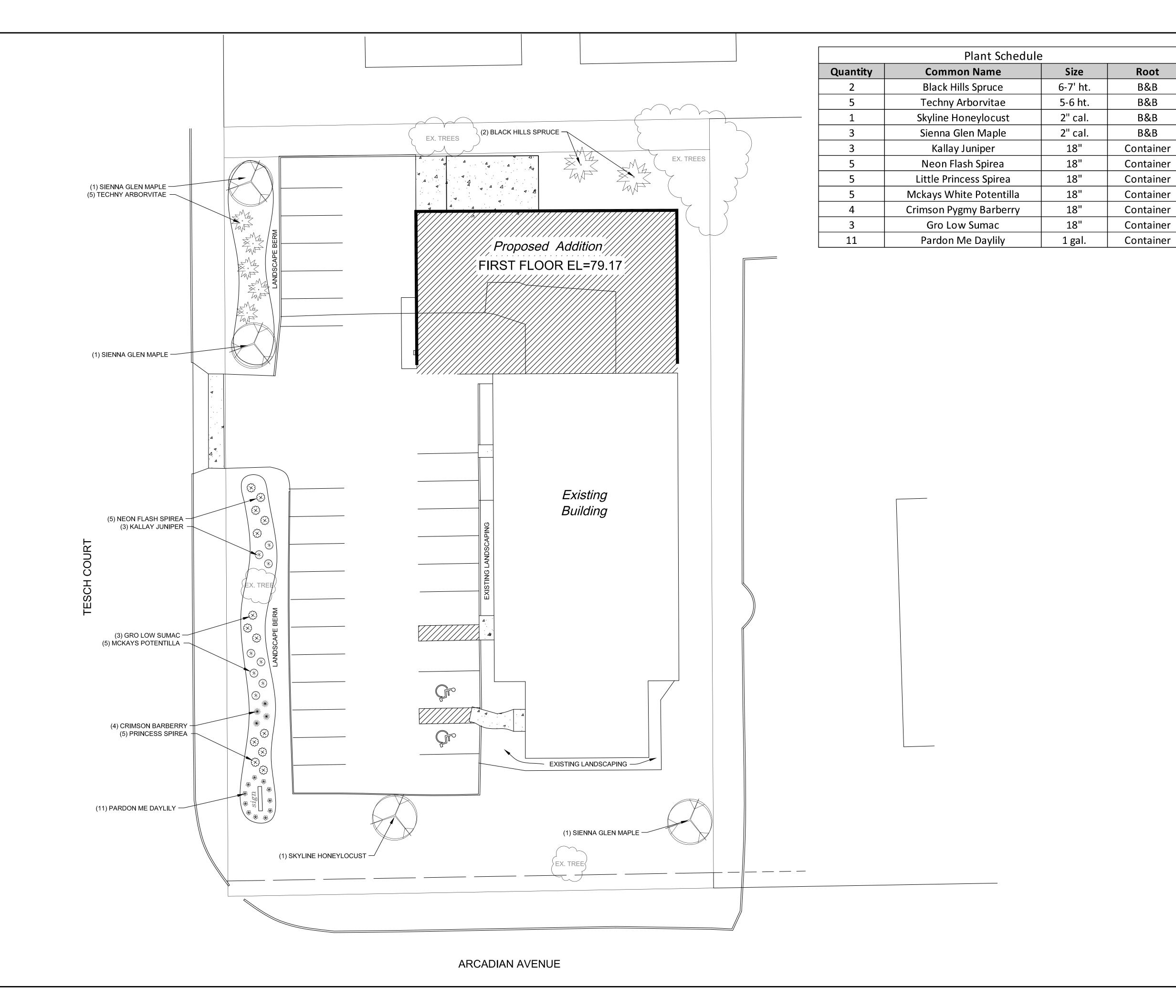


SOUTH BUILDING ELEVATION

SCALE: 3/16" = 1'-0"

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SCALE



Root

B&B

B&B

B&B

B&B

HANSON'S LANDSCAPING

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www.hansonlandscaping.com

hansonslandscapinginc@gmail.com

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DESIGN FOR:

BGS GLASS SERVICE 1620 ARCADIAN AVE. WAUKESHA, WI 53186

SCALE: 1" = 15'



DATE:

11/11/18

DRAWN BY:

CHECKED BY:

SHEET TITLE:

LANDSCAPING PLAN



Luminaire Schedule Lum. Watts Arrangement Lumens/Lamp LLF Description 1.010 XSPW-A-0-2-M-C-U-x-x XSPW 2 SINGLE 1.010 XSPW-A-0-3-M-C-U-x-x XSPW 3 **SINGLE** 4109

*** Fixtures mounted at 15' (on the wall)

Footcandles calculated using predicted lumen values after 50K hours of operation Avg/Min Max/Min N.A. N.A. 0.0 4.6 CalcPts



1200 92nd Street - Sturtevant, WI 53177 www.cree.com - (800) 236-6800

Project Name: BGS Glass - 1620 Arcadian, Waukesha, WI

SR28744

Layout by: Bill Schubert

Scale: 1"=20' Date:2/27/2018 Footcandles calculated at grade Filename: S:\Out\180220EN1BRSR2.AGI

Customer responsible to verify mounting method, color, voltage, accessories, ordering information, catalogue number, etc. prior to placing order.

"DLC V4 is in effect as of April 1, 2017,

which impacts the rebate eligibility of many LED products.

If you require DLC-qualified fixtures,

please reference https://www.designlights.org/search/

for updated qualified product listings.

Email rebates@cree.com<mailto:rebates@cree.com> for assistance."

Illumination results shown on this lighting design are based on project parameters provided to Cree, Inc. used in conjunction with luminaire test procedures conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results. The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting, or energy code.

XSP Series

XSPW™ LED Wall Mount Luminaire

Product Description

The XSPW™ LED wall mount luminaire has a slim, low profile design intended for outdoor wall mounted applications. The rugged lightweight aluminum housing and mounting box are designed for installation over standard single gang J-Boxes and mud ring single gang J-Boxes. The luminaire allows for through-wired or conduit entry from the top, bottom, sides and rear. The housing design is intended specifically for LED technology including a weathertight LED driver compartment and thermal management. Optic design features industry-leading NanoOptic® Precision Delivery Grid™ system in multiple distributions.

Applications: General area and security lighting

Performance Summary

NanoOptic® Precision Delivery Grid™ optic

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K)

Limited Warranty[†]: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

†See www.cree.com/lighting/products/warranty for warranty terms

Accessories

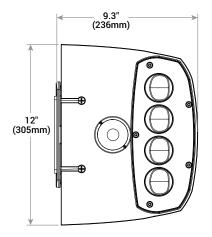
Field-Installed

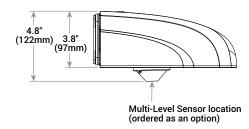
Beauty Plate

WM-PLT12** - 12" (305mm) Square WM-PMT14** - 14" (356mm) Square

- Covers holes left by incumbent wall packs







Veight	
.5 lbs. (4.3kg)	

Ordering Information

Example: XSPW-A-0-2-F-C-U-Z

XSPW	A	0							
Product	Version	Mounting	Optic	Modules	Input Power Designator	Voltage	Color Options	Options	
XSPW	A	O Wall	2 Type II Medium 3 Type III Medium	F 4000K M 5700K	C 42W G 25W	U Universal 120-277V 1 120V 2 208-277V 6* 347V	S Silver T Black W White Z Bronze	K Multi-Level Refer to ML spec sheet for details Available with Input Power Designator C only P Photocell Not available with K option Must specify 1, 2, or 6 voltage O-10V Dimming Control by others Available with Input Power Designator C only Refer to dimming spec sheet for details	

* Available in Canada only NOTE: Price adder may apply depending on configuration







Rev. Date: V6 07/31/2015



^{**} Must specify color

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design
- Luminaire housing specifically designed for LED applications with advanced LED thermal management and driver
- Luminaire mounting box designed for installation over standard single gang J-Boxes and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- · Secures to wall with four 3/16" (5mm) screws (by others)
- Conduit entry from top, bottom, sides, and rear
- Designed and UL approved for easy through-wiring
- Designed for downlight applications only
- Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, black, white and bronze are available
- Weight: 9.5lbs. (4.3kg)

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347V, 50/60Hz, Class 2 driver
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- 10V Source Current: 0.15 mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- · cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529
- DLC qualified. Please refer to www.designlights.org/QPL for most current information
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- · Meets FCC Part 15 standards for conducted and radiated emissions
- · Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details

Electrical Data*							
			Total Current				
Input Power Designator	System Watts 120-277V	System Watts 347V	120V	208V	240V	277V	347V
С	42	46	0.36	0.21	0.19	0.16	0.14
G	25	27	0.22	0.13	0.11	0.10	0.08

^{*} Electrical data at 25°C (77°F)

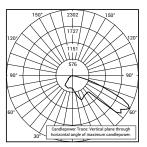
Recomm	Recommended XSPW Series Lumen Maintenance Factors (LMF) ¹							
Ambient	Input Power Designator	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Projected ² LMF	100K hr Calculated ³ LMF		
5°C	С	1.04	1.02	1.01	1.00	1.00		
(41°F)	G	1.04						
10°C	С		1.01	1.00	0.99	0.99		
(50°F)	G	1.03						
15°C	С		1.00	0.99	0.98	0.98		
(59°F)	G	1.02						
20°C	С	1.01	0.99	0.98	0.97	0.97		
(68°F)	G	1.01						
25°C	С	1.00	0.98	0.97	0.96	0.96		
(77°F)	G	1.00						

¹Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing ²In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip) ³In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

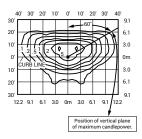


Photometry

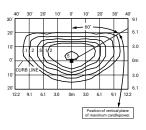
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Products/Outdoor/Wall-Mount/XSP-Series



CESTL Test Report #: 2014-0017 BXSPW-A-*-2-F-G-U-S Initial Delivered Lumens: 2,739



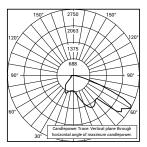
BXSPW-A-*-2-F-C-U-S Mounting Height: 10' (3.0m) A.F.G. Initial Delivered Lumens: 3,819 Initial FC at grade



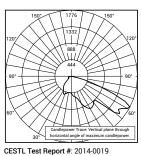
BXSPW-A-*-2-F-G-U-S Mounting Height: 10' (3.0m) A.F.G. Initial Delivered Lumens: 2,529 Initial FC at grade

Type II Medium Distribution							
	4000K		5700K				
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11			
С	3,819	B1 U0 G1	4,109	B1 U0 G1			
G	2,529	B1 U0 G1	2,722	B1 U0 G1			

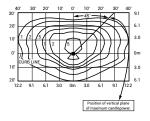
3



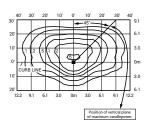
CESTL Test Report #: 2014-0018 BXSPW-A-*-3-F-C-U-S Initial Delivered Lumens: 4,187



BXSPW-A-*-3-F-G-U-S Initial Delivered Lumens: 2,692



BXSPW-A-*-3-F-C-U-S Mounting Height: 10' (3.0m) A.F.G. Initial Delivered Lumens: 3,819 Initial FC at grade



BXSPW-A-*-3-F-G-U-S Mounting Height: 10' (3.0m) A.F.G. Initial Delivered Lumens: 2,529 Initial FC at grade

Type III Medium Distribution							
	4000K		5700K				
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11			
С	3,819	B1 U0 G1	4,109	B1 U0 G1			
G	2,529	B1 U0 G1	2,722	B1 U0 G1			

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T (800) 473-1234 F (800) 890-7507

^{*} Initial delivered lumens at 25°C (77°F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf.

^{*} Initial delivered lumens at 25°C (77°F)
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf.