

NOTES OF IMPORTANCE:

Submitting for site plan review: sprapplications@cityofmadison.com

Project Status Review: <https://www.cityofmadison.com/development-services-center/resources/project-status-information>

Stormwater Management Permit: <https://www.cityofmadison.com/engineering/permits/stormwater-management-permit>

Erosion Control Permit: <https://www.cityofmadison.com/engineering/permits/erosion-control-permit>

SUBMITTING PAYMENT:

Regular Mail
City of Madison Zoning
PO Box 2984
Madison, WI 53701-2984

FedEx
City of Madison Zoning
215 Martin Luther King Jr. Blvd. Ste. 017
Madison, WI 53703

Dropbox located outside of MMB on East Doty Street.

Make an appointment with the Zoning Counter: <https://www.cityofmadison.com/dpced/bi/building-plan-review-counter-appointment-/3424/>

NOTES:



Department of Planning and Community and Economic Development
Department of Planning and Community and Economic Development
215 Martin Luther King Jr Blvd, Suite 017
Madison, WI 53701
266-4551

Getting Your Parking Lot/Site Plan Approved

In this packet, you’ll find:

- Plan Approval Procedures and Instructions
- Parking Lot/Site Plan Approval Application and Checklist
- Example plans for parking lot layout, drainage, and erosion control
- Parking Lot Design Standards
- Landscape Worksheet
- Outdoor Lighting Standards
- Erosion Control Permit Application
- Storm Water Management Permit Application
- Application to Excavate in Public Right-of-Way Checklist
- Fire Apparatus Access and Fire Hydrant Worksheet
- Bird-safe glass requirements
- Electric Vehicle

APPLICATION INSTRUCTIONS – PARKING LOT/SITE PLAN APPROVAL PROCESS

Our process and forms were designed with input from customers and City staff who provided tips on how to prevent errors and reduce time. Our process works best if we receive complete, accurate and legible information.

1 Before you submit our plans and required information, discuss your proposal with City staff. At this time you can discuss the City’s standards for site design.

2 Determine the items you need to include in your application. At a minimum, you need:

- The *Parking Lot/Site Plan Approval Application Checklist*
- PDF of scaled (1” = 20’ or similar) drawings

To determine the other items you need to include, answer these questions.

1. Is this parking lot an approved Conditional Use, Demolition or PD?
☐ No
☐ Yes → ☐ Attach signed copy of *Letter of Conditions*
2. Is a new curb cut being installed?
☐ No
☐ Yes → ☐ Apply for street terrace permit at <https://elam.cityofmadison.com/CitizenAccess/Default.aspx>
3. Does this site disturb one acre or more?
☐ No
☐ Yes → ☐ Submit City of Madison erosion control permit application and approved WDNR NOI permit
4. Does this parking lot have a joint driveway or joined parking lots on separate parcels?
☐ No
☐ Yes → ☐ Attach *easement agreements*
5. Will this parking lot have outdoor lighting?
☐ No
☐ Yes → ☐ Attach *lighting plan and manufacturers specs & plan*
6. Does the site meet the applicability standards of Sec. 28.142(2) or is the approved landscape plan changing?
☐ No
☐ Yes → ☐ Attach *Landscape Worksheet & plan*

3 Prepare your plans. Use the application checklist to be sure you show all the information that is needed for review of your plans/project.

4 Email checklist, plans, and all attachments to sprapplications@cityofmadison.com. A zoning staff person will review your application to see if it is complete. If it is not complete, the staff person will contact you and explain what other items you need to submit. If it is complete, a zoning staff person will set up application for review.

5 Pay fees. A site plan review fee is due when plans and attachments are submitted for staff review. The fee is \$100 plus \$50 for each acre of land in excess of one acre, or fraction thereof, up to a maximum of 5 acres or \$300. \$50 fee for Government agencies, schools, NGO’s non-profits. You can consult with zoning staff prior to submitting plans to calculate the fee.

6 Track site plan review. You can track the progress of the City agencies’ reviews on the [City of Madison Site Plan Verification](#) website. If an agency requests additional information, submit the materials or information directly to that agency. If a plan is rejected by an agency, revised plans will need to be resubmitted for a new review along with an additional site plan review fee. You will receive an email notification alerting you when the plans have been approved.

7 Obtain appropriate permits. Once site plan review has been approved by all agencies, you can pay for any permit fees at the Permit Counter and get your permit(s).

WHO TO CALL FOR HELP

As you look over the application and checklist you may be confused about what you need to submit or show on your plans. City staff can advise you. Give them a call before you draw your plans or submit your application.

TOPIC	CITY AGENCY	PHONE NUMBER
Building use Setbacks Landscaping Occupancy	Zoning	(608) 266-4551
Parking lot geometrics	Traffic Engineering	(608) 266-4761
Drainage Land disturbing activity Soil erosion	Engineering	(608) 266-4751
Fire hydrants/access	Fire	(608) 266-4484
Outdoor lighting	Building Inspection	(608) 266-4551

Why the City Needs So Much Information

The City of Madison reviews and approves parking lot plans to answer these questions:

- Will there be the required number of car/bike spaces for visitors, customers and employees?
- Will drivers of different-sized vehicles be able to get in and out of the spaces safely?
- Will customers and employees with disabilities be able to park and have easy access to the building?
- Can drivers enter and exit the lot safely?
- Will parking lot lighting help keep customers, employees and property safe, while not disturbing adjacent property owners?
- Will the lot’s construction and use cause minimal soil erosion and runoff?
- Will the lot drain properly?
- Will fire trucks be able to get in and have adequate water supply to put out a fire?
- Will the development meet city aesthetic design requirements?

There is a lot to consider, but understanding why the City reviews parking lot plans will help you understand the information you need to provide for review and approval of your plans.



Department of Planning & Community & Economic Development
215 Martin Luther King Jr Blvd, Suite 017
Madison, WI 53703
Phone: 266-4551

Email Submittal: sprapplications@cityofmadison.com

Parking Lot / Site Plan Approval Application Checklist

Instructions: Please complete this form and submit it with all the materials necessary for a parking lot plan review and approval. Check boxes for the items submitted that apply to your project. If you are not sure about what to show or submit, call the appropriate agency (*see Box F*). Once your application is accepted, staff will review your application materials within two weeks.

Site Address:		
Contact Person:	Company:	Phone:
Email:		
Project Type (check one): ☐ Permitted ☐ LNDUSE resubmittal ☐ Alteration to PD ☐ Alteration to CU ☐ Alteration to DC/UMX ☐ Alteration to TR-P ☐ Alteration to Master Plan ☐ Other _____		
Summary of Project:		

A. These items must be included with an application:

- ☐ 1. PDF of scaled plans (1" = 20' or similar) emailed to sprapplications@cityofmadison.com
- ☐ 2. Conditional Use or PD/SIP approval letter (*if applicable*)
- ☐ 3. Easements for joint driveways or joined parking lots on separate parcels (*if applicable*)
- ☐ 4. Erosion Control Application and Plan (*if applicable*)
- ☐ 5. Stormwater Management Permit Application and calculations (*if applicable*)
- ☐ 6. Landscape Plan/Worksheet (*if applicable per Sec. 28.142(2)*)
- ☐ 7. Outdoor Lighting Plan and manufacturers specs (*if applicable*)
- ☐ 8. Building elevations (*if applicable*)
- ☐ 9. Building floor plans (*if applicable*)
- ☐ 10. Bird glass details (*if applicable*)
- ☐ 11. Transportation Demand Management (TDM) Plan (*if applicable*)

B. Information about your property that must be shown on your drawing(s) (See Example Plans):

- ☐ 12. Project information block on first page of plan
- ☐ 13. Property lines
- ☐ 14. Abutting right-of-way, roadways, driveways and terraces shown and dimensioned
- ☐ 15. Elevations of existing and proposed site to City datum
- ☐ 16. Elevation of top of curb
- ☐ 17. Storm sewers or drainage pattern (*See Example Plan 3*)
- ☐ 18. Proposed driveway radii
- ☐ 19. Type of surface on driveway, approach and lot (*grass landscaping, concrete, bituminous paving, mulch, etc.*)
- ☐ 20. Location of existing and proposed impervious surfaces
- ☐ 21. Means of separation between parking lot and sidewalk or adjoining property
- ☐ 22. Tree islands
- ☐ 23. Screening or landscaping (*See Example Landscape Plan*)
- ☐ 24. On-site fire hydrants

C. Information about the structures that must be shown on your drawing (See Example Plans):

- ☐ 25. Existing structures (*footprints and dimensions*)
- ☐ 26. Proposed structures (*footprints and dimensions*)
- ☐ 27. Setbacks and distance to lot lines (*front, rear and sides*)

D. Parking layout information that must be on your drawing(s) (See Example Plans):

- ☐ 28. Dimensions of parking stalls and drive aisles
- ☐ 29. Location of accessible parking stalls
- ☐ 30. Location of accessible parking stall signs
- ☐ 31. Location and width of accessibility ramps
- ☐ 32. Location of loading facilities
- ☐ 33. Bicycle parking rack locations, spaces, and rack detail
- ☐ 34. Electric Vehicle charging stalls (*if applicable*)

E. "Off-property" information that must be shown on your drawing(s):

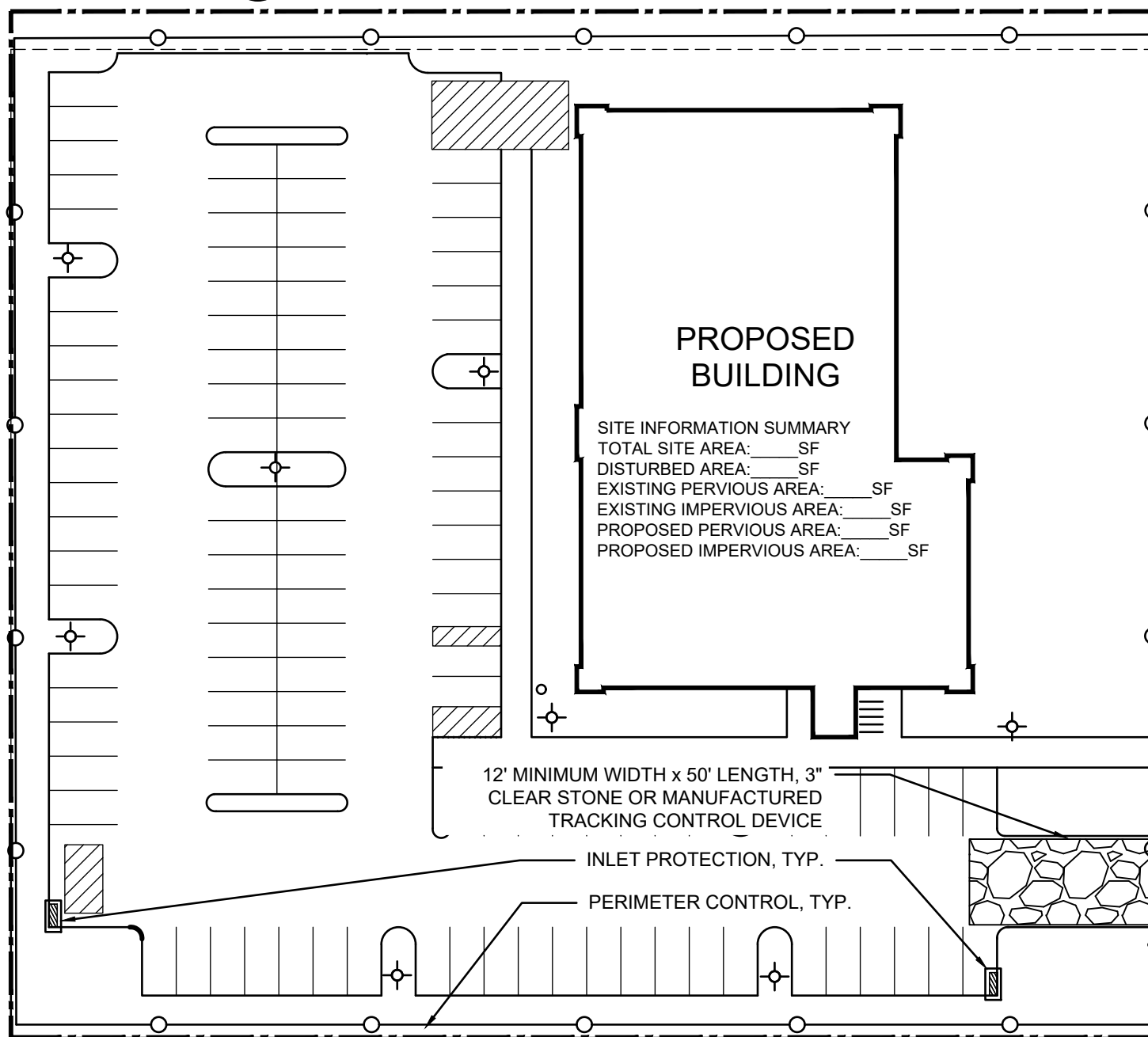
- ☐ 35. Trees, poles, signs in the right-of-way (*if applicable*)
- ☐ 36. Medians (*if applicable*)
- ☐ 37. Driveway openings directly across the street (*if applicable*)
- ☐ 38. Distance to nearest intersection
- ☐ 39. Fire hydrants within 500 feet of your property line

F. Questions: Call City Staff for help.

ZONING	Building Use	266-4551
	Setbacks	
	Landscaping	
	Occupancy	
TRAFFIC ENGINEERING	Parking lot geometrics	266-4761
ENGINEERING	Drainage	266-4751
	Land disturbing activity	
	Soil erosion	
FIRE	Fire hydrants / access	266-4484
BUILDING INSPECTION	Parking lot lighting	266-4551

EXAMPLE PLAN 1 - EROSION CONTROL PLAN

SCALE: 1" = 40'



The Erosion Control Plan shows the minimum requirements for this site only. Each site should be analyzed with regard to total drainage area, location of the site within the drainage area, topography of the site, and proximity to the receiving body of water. Applicants preparing the Erosion Control Plan should refer to the Dane County Erosion and Stormwater Management Manual for guidance.

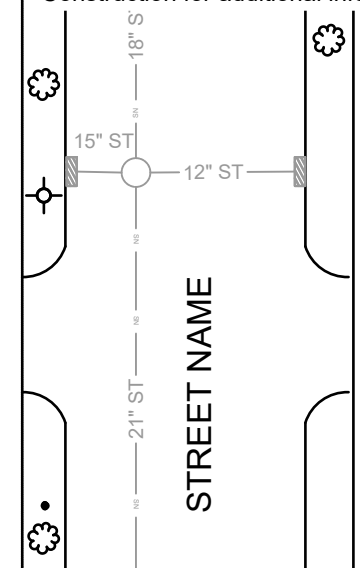
This manual is available online at
<https://ecsmanual.countyofdane.com/>

Call City Engineering at (608) 266-4751
with questions regarding this plan.

Notes:

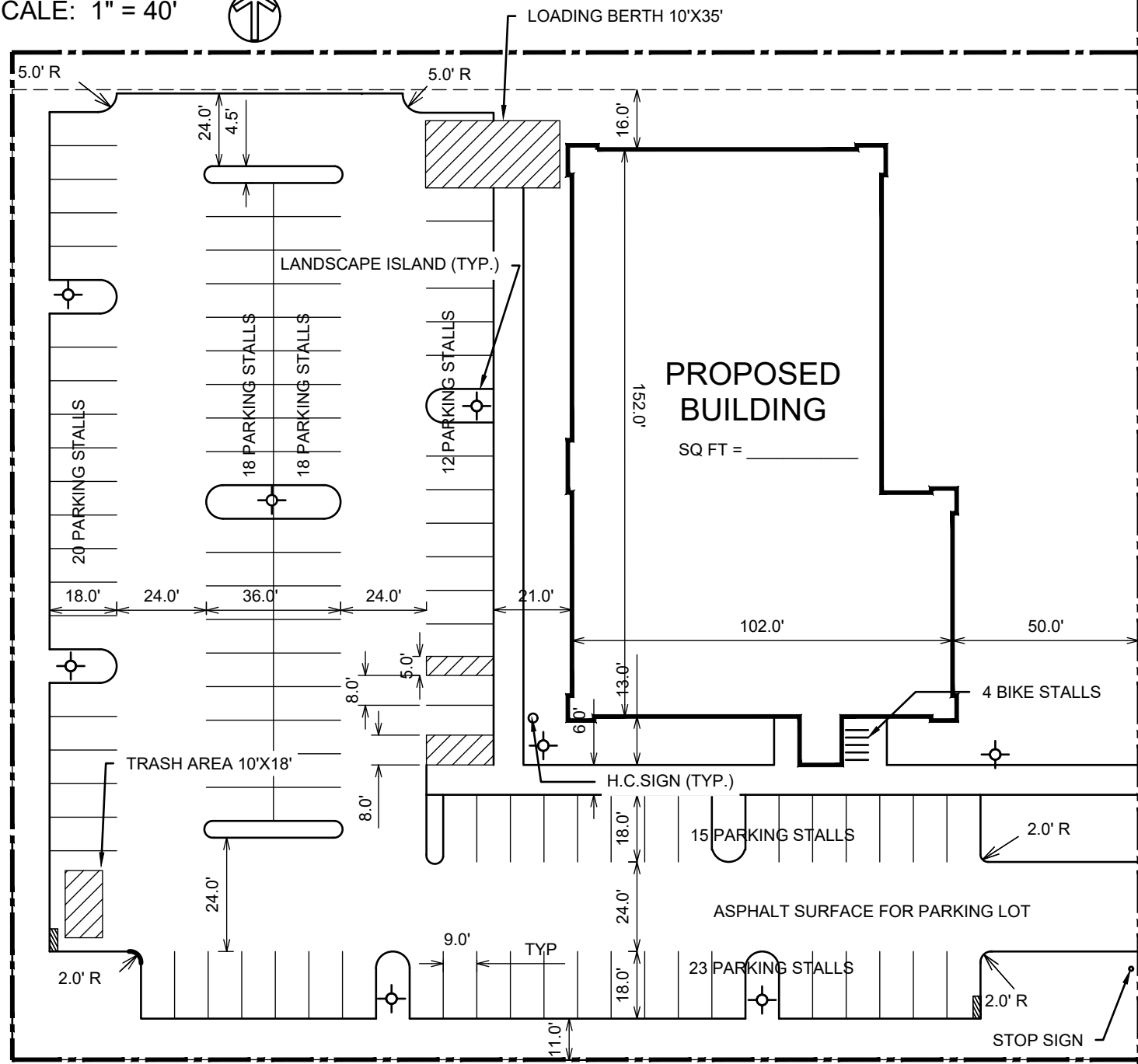
- 1.) Inlet protection in the ROW must be rigid frame inlet protection.
- 2.) All vehicles leaving the site must remain on stabilized ground; show transportation route if hauling is anticipated.
- 3.) Show location for concrete washout and mobile batch mixer (if applicable)
- 4.) Show location for dewatering filter bag, filtering tank and discharge location (if applicable).

See the City of Madison Standard Specifications for Public Works Construction for additional information.

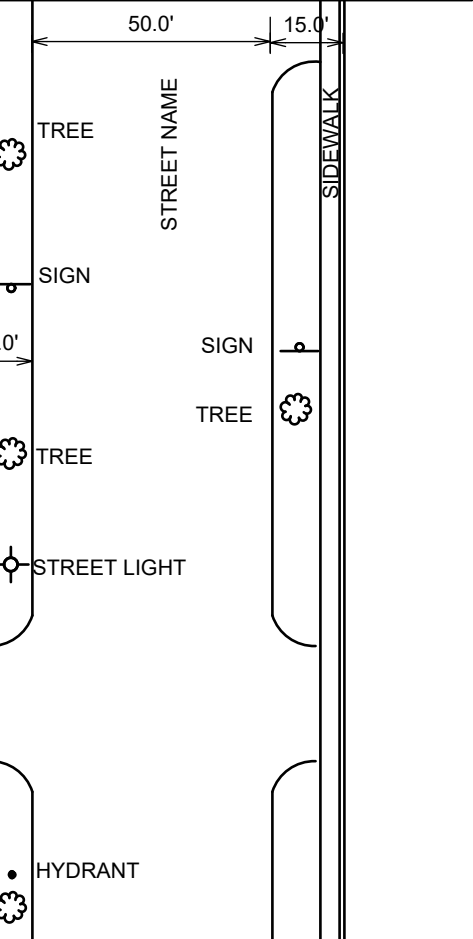


EXAMPLE PLAN 2 - SITE PLAN

SCALE: 1" = 40'

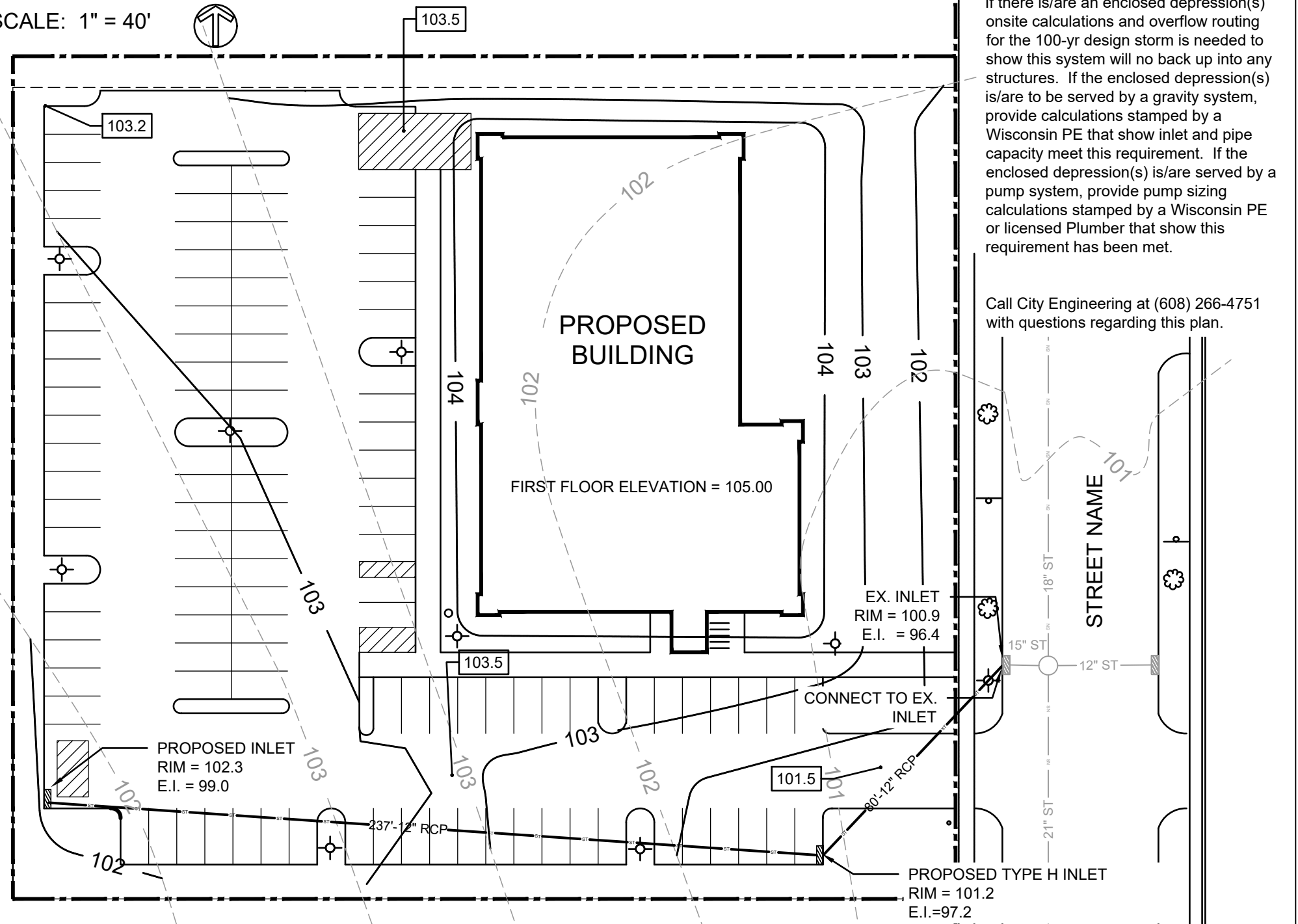


Site Address: _____
Site Acreage(total): _____
Number of building stories (above grade): _____
Building height: _____
DILHR type of construction (new structures or additions): _____
Total square footage of building: _____
Use of property: _____
Gross square feet of office: _____
Number of employees in warehouse: _____
Number of employees in production area: _____
Capacity of restaurant/place in assembly: _____
Number of bicycle stalls shown: _____
Number of parking stalls: _____
Small car: _____
Large car: _____
Accessible: _____
Total: _____



EXAMPLE PLAN 3 - DRAINAGE PLAN

SCALE: 1" = 40'



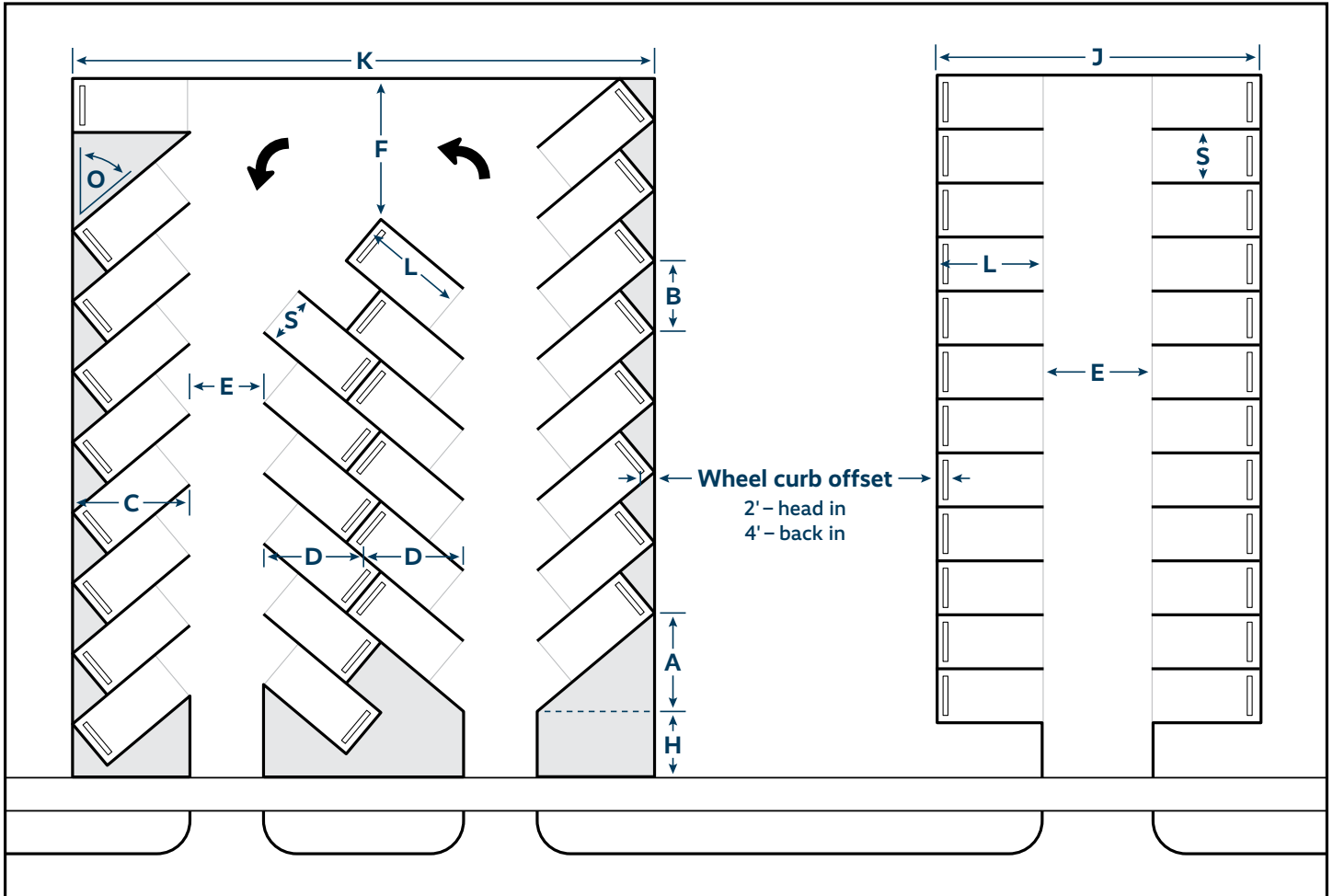
Show emergency overflow route of stormwater devices on plan.

If there is/are an enclosed depression(s) onsite calculations and overflow routing for the 100-yr design storm is needed to show this system will no back up into any structures. If the enclosed depression(s) is/are to be served by a gravity system, provide calculations stamped by a Wisconsin PE that show inlet and pipe capacity meet this requirement. If the enclosed depression(s) is/are served by a pump system, provide pump sizing calculations stamped by a Wisconsin PE or licensed Plumber that show this requirement has been met.

Call City Engineering at (608) 266-4751
with questions regarding this plan.



PARKING DESIGN STANDARDS



ONE SIZE FITS ALL

Table of dimensions (in feet)

O	S	L	A	B	C	D	E	F	H	J	K
0°	8.75	24.0	0.0	24.0	8.8	8.75	10.5		0.0	28.0	
20°	8.75	17.0	38.6	25.6	14.1	10.0	9.5		4.0	37.7	67.2
30°	8.75	17.0	27.9	17.6	16.1	12.3	9.6		6.0	41.8	76.0
40°	8.75	17.0	21.1	13.7	17.7	14.3	10.0		8.0	45.4	84.0
45°	8.75	17.0	18.3	12.4	18.3	15.2	10.0	16.0	9.0	46.6	87.0
50°	8.75	17.0	15.7	11.5	18.7	15.9	10.5	16.5	10.0	47.9	90.2
60°	8.75	17.0	11.1	10.2	19.1	17.0	17.0	15.0	12.0	55.2	106.2
70°	8.75	17.0	7.0	9.4	19.0	17.5	17.5	17.0	14.0	56.0	109.0
80°	8.75	17.0	3.3	8.9	18.3	17.6	17.6	18.0	16.0	59.6	117.8
90°	8.75	17.0	0.0	8.8	17.0	17.0	17.0	20.0	0.0	57.0	114.0

MEDIUM AND LARGE VEHICLES

Table of dimensions (in feet)

Refer to diagram on page 1

PARKING DESIGN STANDARDS



O	S	L	A	B	C	D	E	F	H	J	K
0°	8.0	22.0	0.0	22.0	8.0	8.0	11.0		0.0	27.0	
	8.6	23.0	0.0	23.0	8.5	8.5	10.5		0.0	27.5	
	9.0	25.0	0.0	25.0	9.0	9.0	10.0		0.0	28.0	
20°	8.0	18.0	38.5	23.5	14.0	13.0	10.0		4.0	38.0	74.0
	8.6	18.0	40.0	25.0	14.5	13.5	9.5		4.0	38.5	75.0
	9.0	18.0	41.0	26.0	15.0	14.0	9.5		4.0	39.5	77.0
	9.6	18.0	41.0	28.0	15.0	14.5	9.5		4.0	39.5	77.0
	10.0	18.0	42.5	29.0	15.5	15.0	9.0		4.0	40.0	79.0
30°	8.0	18.0	28.5	16.0	15.5	12.5	10.5		6.0	41.5	77.0
	8.6	18.0	29.0	17.0	16.0	12.5	10.0		6.0	42.0	77.0
	9.0	18.0	30.0	18.0	16.5	13.0	9.5		6.0	42.5	78.0
	9.6	18.0	30.0	19.0	17.0	13.5	9.0		6.0	43.0	79.0
	10.0	18.0	30.5	20.0	17.5	13.5	9.0		6.0	44.0	80.0
40°	8.0	18.0	21.5	12.5	18.0	14.5	11.0		9.0	47.0	87.0
	8.6	18.0	22.0	13.0	18.5	14.5	10.5		8.5	47.5	87.0
	9.0	18.0	22.5	14.0	19.0	15.0	10.0		8.0	48.0	88.0
	9.6	18.0	22.5	15.0	19.5	15.0	10.0		7.5	48.0	88.0
	10.0	18.0	23.0	15.5	20.0	15.5	9.5		7.0	48.5	88.0
45°	8.0	18.0	19.0	11.5	18.0	16.0	11.0	15.0	10.0	47.0	90.0
	8.6	18.0	19.5	12.0	18.5	16.0	10.5	15.5	9.5	47.5	90.0
	9.0	18.0	20.0	12.5	19.0	16.0	10.0	16.0	9.0	48.0	90.0
	9.6	18.0	20.0	13.5	19.5	16.5	9.0	16.5	8.5	48.0	90.0
	10.0	18.0	20.5	14.0	20.0	16.5	0.0	17.0	8.0	49.0	90.0
50°	8.0	18.0	16.0	10.5	19.0	16.5	12.0	15.5	11.0	50.0	99.0
	8.6	18.0	16.5	11.0	19.5	17.0	11.0	16.0	10.5	50.0	95.0
	9.0	18.0	17.0	12.0	20.0	17.5	10.5	16.5	10.0	50.5	96.0
	9.6	18.0	17.0	12.5	20.5	18.0	10.0	16.5	9.5	51.0	97.0
	10.0	18.0	17.0	13.0	20.5	18.0	10.0	17.0	9.0	51.0	97.0
60°	8.0	18.0	12.0	9.0	20.0	17.5	18.0	15.0	13.0	58.0	111.0
	8.6	18.0	12.0	10.0	20.5	18.0	17.0	15.0	12.5	58.0	111.0
	9.0	18.0	12.0	10.5	20.5	18.0	17.0	15.0	12.0	58.0	111.0
	9.6	18.0	12.5	11.0	21.0	18.0	16.0	15.0	11.5	58.0	110.0
	10.0	18.0	12.5	11.5	21.0	18.0	15.0	15.0	11.0	57.0	108.0
70°	8.0	18.0	7.5	8.5	20.5	18.0	19.5	17.0	15.0	60.5	116.0
	8.6	18.0	7.5	9.0	20.5	18.0	19.0	17.0	14.5	60.0	115.0
	9.0	18.0	7.5	9.5	20.5	18.0	18.5	17.0	14.0	59.5	114.0
	9.6	18.0	7.5	10.0	21.0	18.0	17.5	17.0	13.5	59.5	114.0
	10.0	18.0	7.5	10.5	21.0	18.5	17.0	17.0	13.0	59.0	113.0
80°	8.0	18.0	3.5	8.0	20.0	17.0	27.0	18.0	17.5	67.0	128.0
	8.6	18.0	3.5	8.5	20.0	17.5	25.0	18.0	17.0	65.0	125.0
	9.0	18.0	3.5	9.0	20.0	17.5	23.0	18.0	16.0	63.0	121.0
	9.6	18.0	3.5	9.5	20.0	17.5	22.0	18.0	15.5	62.0	119.0
	10.0	18.0	3.5	10.0	20.0	17.5	22.0	18.0	14.5	62.0	119.0
90°	8.0	18.0	0.0	8.0	18.0	18.0	28.0	20.0	0.0	64.0	128.0
	8.6	18.0	0.0	8.5	18.0	18.0	26.0	20.0	0.0	62.0	124.0
	9.0	18.0	0.0	9.0	18.0	18.0	24.0	20.0	0.0	59.0	120.0
	9.6	18.0	0.0	9.5	18.0	18.0	23.0	20.0	0.0	59.0	118.0
	10.0	18.0	0.0	10.0	18.0	18.0	22.0	20.0	0.0	58.0	116.0

SMALL VEHICLES

Table of dimensions (in feet)

Refer to diagram on page 1

PARKING DESIGN STANDARDS



O	S	L	A	B	C	D	E	F	H	J	K
0°	7.5	20.0	0.0	20.0	7.5	7.5	9.0		0.0	24.0	
	8.0	21.0	0.0	21.0	8.0	8.0	8.5		0.0	24.5	
	8.5	22.0	0.0	22.0	8.5	8.5	8.0		0.0	25.0	
20°	7.5	16.0	36.0	22.0	12.0	9.0	9.0		3.5	33.0	60.0
	8.0	16.0	37.5	23.5	12.5	9.0	8.5		3.5	33.5	60.0
	8.6	16.0	39.0	25.0	13.0	9.5	8.5		3.5	34.5	62.0
	9.0	16.0	40.5	26.0	13.0	10.0	8.5		3.5	34.5	63.0
	9.5	16.0	42.0	27.0	13.5	10.5	8.0		3.5	35.0	64.0
30°	7.5	16.0	25.0	15.0	14.0	11.0	9.5		5.5	37.5	69.0
	8.0	16.0	26.0	16.0	14.5	11.5	9.0		5.5	38.0	70.0
	8.6	16.0	27.0	17.0	15.0	12.0	8.5		5.5	38.5	71.0
	9.0	16.0	28.0	18.0	15.5	12.5	8.0		5.5	39.0	72.0
	9.5	16.0	28.5	19.0	16.0	13.0	8.0		5.5	40.0	74.0
40°	7.5	16.0	19.0	11.5	16.0	13.0	10.0		8.0	42.0	78.0
	8.0	16.0	19.5	12.5	16.0	13.5	10.0		7.5	42.0	79.0
	8.6	16.0	20.0	13.0	16.5	14.0	9.0		7.5	42.0	79.0
	9.0	16.0	20.5	14.0	17.0	14.0	8.5		7.0	42.5	79.0
	9.5	16.0	21.0	15.0	17.0	14.5	8.5		6.5	42.5	80.0
45°	7.5	16.0	17.0	10.5	16.5	14.0	10.0	13.0	9.0	43.0	81.0
	8.0	16.0	17.0	11.0	17.0	14.0	9.5	13.5	8.5	43.5	81.0
	8.6	16.0	17.5	12.0	17.0	14.5	9.5	14.0	8.0	43.5	82.0
	9.0	16.0	18.0	13.0	17.5	15.0	8.5	14.5	7.5	43.5	82.0
	9.5	16.0	18.5	13.5	18.0	15.5	8.0	15.0	7.5	44.0	83.0
50°	7.5	16.0	14.5	10.0	17.0	15.0	11.0	13.5	10.0	45.0	86.0
	8.0	16.0	15.0	10.5	17.5	15.0	10.5	14.0	9.5	45.5	86.0
	8.6	16.0	15.0	11.0	18.0	15.5	10.0	14.5	9.0	46.0	87.0
	9.0	16.0	15.5	12.0	18.0	15.5	10.0	14.5	8.5	46.0	87.0
	9.5	16.0	16.0	12.5	18.5	16.0	9.0	15.0	8.0	46.0	87.0
60°	7.5	16.0	10.0	8.5	18.0	15.5	17.0	13.0	11.5	53.0	101.0
	8.0	16.0	10.5	9.0	18.0	16.0	16.5	13.0	11.5	52.5	101.0
	8.6	16.0	10.5	10.0	18.0	16.5	16.0	13.0	11.0	52.0	101.0
	9.0	16.0	11.0	10.5	18.5	16.5	15.5	13.0	10.5	52.0	101.0
	9.5	16.0	11.0	11.0	18.5	17.0	15.0	13.0	10.0	52.0	101.0
70°	7.5	16.0	6.5	8.0	18.0	16.0	18.0	15.0	13.5	54.0	104.0
	8.0	16.0	6.5	8.5	18.0	16.5	17.0	15.0	13.0	53.0	103.0
	8.6	16.0	6.5	9.0	18.0	16.5	17.0	15.0	12.5	53.0	103.0
	9.0	16.0	6.5	9.5	18.5	17.0	16.0	15.0	12.0	53.0	103.0
	9.5	16.0	6.5	10.0	18.5	17.0	16.0	15.0	11.5	53.0	103.0
80°	7.5	16.0	3.0	7.5	18.0	16.5	24.0	16.0	15.5	60.0	117.0
	8.0	16.0	3.0	8.0	18.0	16.5	22.0	16.0	15.5	58.0	113.0
	8.6	16.0	3.0	8.5	18.0	16.5	21.0	16.0	14.5	57.0	111.0
	9.0	16.0	3.0	9.0	18.0	17.0	20.0	16.0	14.0	56.0	110.0
	9.5	16.0	3.0	8.5	18.0	17.0	19.0	16.0	13.0	55.0	108.0
90°	7.5	16.0	0.0	7.5	16.0	16.0	25.0	18.0	0.0	57.0	114.0
	8.0	16.0	0.0	8.0	16.0	16.0	23.0	18.0	0.0	55.0	110.0
	8.6	16.0	0.0	8.5	16.0	16.0	22.0	18.0	0.0	54.0	108.0
	9.0	16.0	0.0	9.0	16.0	16.0	21.0	18.0	0.0	53.0	106.0
	9.5	16.0	0.0	9.5	16.0	16.0	20.0	18.0	0.0	52.0	104.0



28.142

LANDSCAPE PLAN AND LANDSCAPE WORKSHEET INSTRUCTIONS

Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size **MUST** be prepared and stamped **by a registered landscape architect.**

The Landscape Plan is an important component of the plan set, and must be carefully coordinated to meet ordinance requirements and maintain consistency with plan set components often prepared by other design professionals. This guide will support designers to ensure that the Landscape Plan and Landscape Worksheet reflect adequate Landscape Points, meet all of the Landscape Distribution Requirements, and address detailed specifications. Please review Section 28.142 [LANDSCAPING AND SCREENING REQUIREMENTS](#) in the City of Madison Zoning Code for further detail.

28.142(2)

APPLICABILITY

Landscape standards apply to exterior construction and development activity, including expansion of existing buildings, structures and parking lots, except the construction of detached single- and two-unit dwellings and their accessory structures (e.g. garage, shed).

The entire development site must be brought up to compliance with this section unless all of the following conditions apply, in which case only the affected areas need to be brought up to compliance:

- (a) The area of site disturbance during any 10 year period is less than 10% of the entire development site.
- (b) Building additions during any 10 year period result in less than a 10% increase in gross floor area.
- (c) No demolition of a principal building is involved.
- (d) Any displaced landscaping elements must be replaced on the site and shown on a revised landscaping plan.

28.142(3)

LANDSCAPE PLAN AND DESIGN STANDARDS

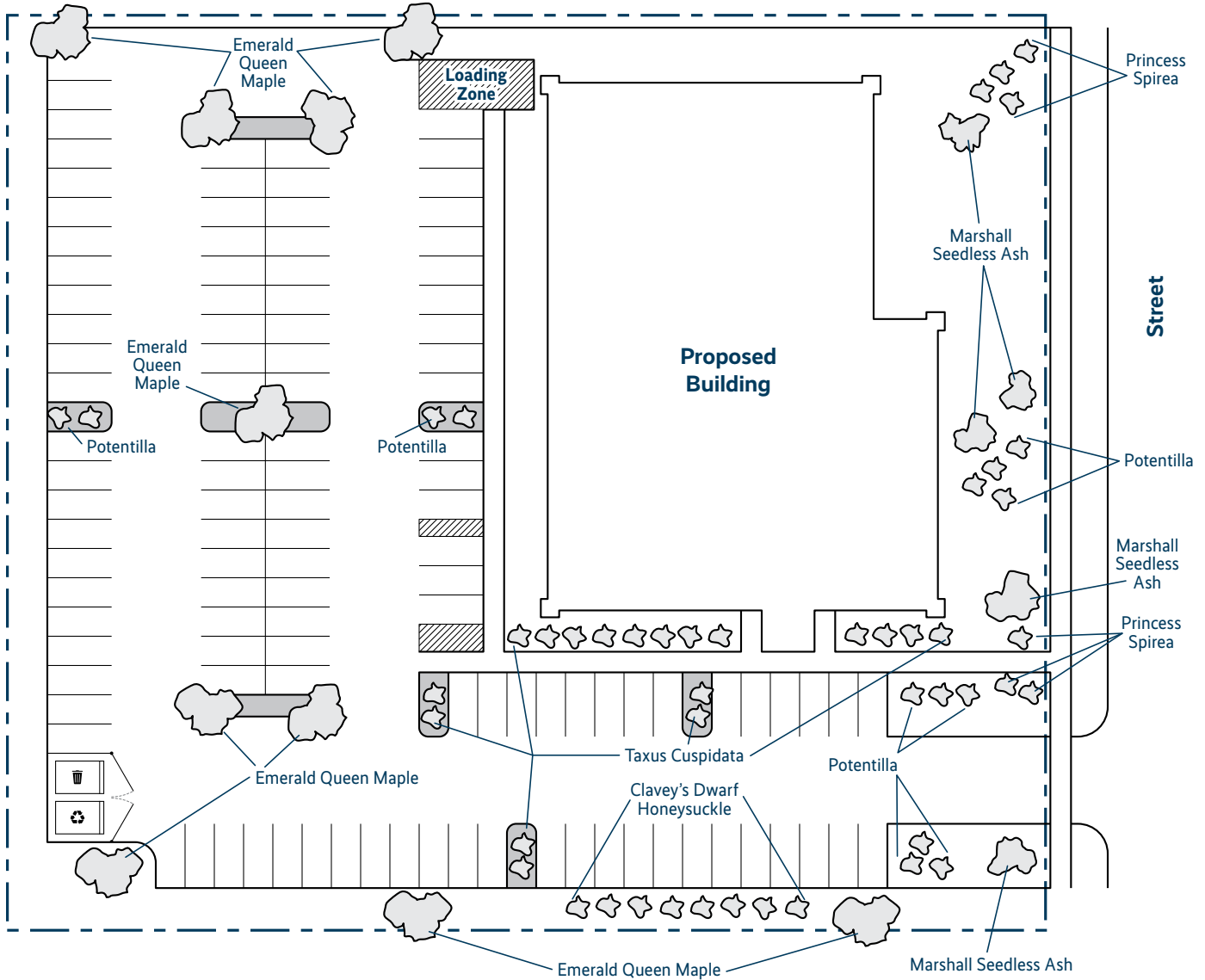
Landscape plans must include all the following elements with labels or references in a clear legend:

1. Plant list, including both common and Latin names, planting size and root condition (e.g., container or ball & burlap).
Note: Plants must be nursery quality and tolerant of individual site microclimates
2. Site amenities, including bike racks, benches, trash receptacles, storage and loading areas, etc.
3. Lighting (landscape, pedestrian or parking area)
4. Irrigation
5. Utility easements
6. Hard surface materials
7. Mulch type, edges and curbs (Mulch = shredded bark, chipped wood or stone installed at a minimum depth of two (2) inches. If stone is used, it shall be spread over weed barrier fabric.)
8. Areas of seeding or sodding
9. Areas to remain undisturbed, and limits of land disturbance
10. Plants shown at their expected size at sixty percent (60%) of growth
11. Existing trees eight (8) inches or more in diameter, with indication of whether they will remain on site or be removed (Trees to be removed should be shown with an "X" or "to be removed" note)
12. Site grading plan, including stormwater management, if applicable, or consistent with more detailed stormwater management plan submitted as part of the plan set



EXAMPLE LANDSCAPE PLAN

Call City Zoning, 608-266-4551, with your questions about this type of plan.



Plant Name	Size	Quantity	Points
Emerald Queen Maple	2-2.5"	9	-
Marshall Seedless Ash	2-2.5"	4	450
Clavey's Dwarf Honeysuckle	1 gallon	8	24
Princess Spirea	1 gallon	7	21
Potentilla	1 gallon	10	30
Taxus Cuspidata	2 gallons	12	60
TOTAL:			585



28.142(5-9)

LANDSCAPE DISTRIBUTION

Landscaping shall be distributed along street frontages, within parking lot interiors, as foundation plantings, or as general site landscaping as follows:

	What	Where	Specifications
LANDSCAPING	Development Frontage Landscaping	Between buildings or parking areas and adjacent street(s)	Every 30 lineal feet has 5 shrubs + either 1 canopy tree or 2 ornamental or evergreen trees, or; Decorative fencing (metal, masonry, stone) at least 3' tall
	Interior Parking Lot Landscaping	All parking lots with 20+ parking spaces	Minimum Landscaped Area • 8% of parking area for new development • 5% of parking area for changes to site Islands & Strips • Planted islands located every 12 parking stalls, or; • 7' wide landscaped strips between parking bays • May be curbed or uncurbed if approved for bioretention Prioritizing Canopy Trees • At least 1 canopy tree per 160 sq ft required landscaped area (may substitute 2 ornamental deciduous trees for up to 25% of canopy trees) • No light poles within area of 75% of mature growth from the center of any tree
	Foundation Plantings	Along building facades, except where buildings directly abut sidewalk or hardscape features	Shrubs, perennials, and native grasses
SCREENING	Along District Boundaries	Any side or rear property line between residential & non-residential zoning districts	Solid wall, solid fence, or hedge with year-round foliage, between 6'-8' tall (within front yard setback area, shall not exceed 4')
	Refuse Areas	All 4 sides, with access gate	Solid commercial-grade wood fence, wall, or equivalent material 6'-8' tall
	Outdoor Storage	Screened from any adjacent street, sidewalk, public walkway, public park, or residential uses. Some districts may have different requirements.	
	Loading Areas		
	Rooftop & Ground Level Mechanicals	Screened from streets and residential zoning districts	Fully screened with fence, wall, or landscaping as approved by Zoning Administrator

OTHER IMPORTANT CONSIDERATIONS

28.142(4)(e)

- Mulched planting beds must have at least 75% vegetative cover.

28.142(4)(f)

- Diversity requirements for new canopy trees:

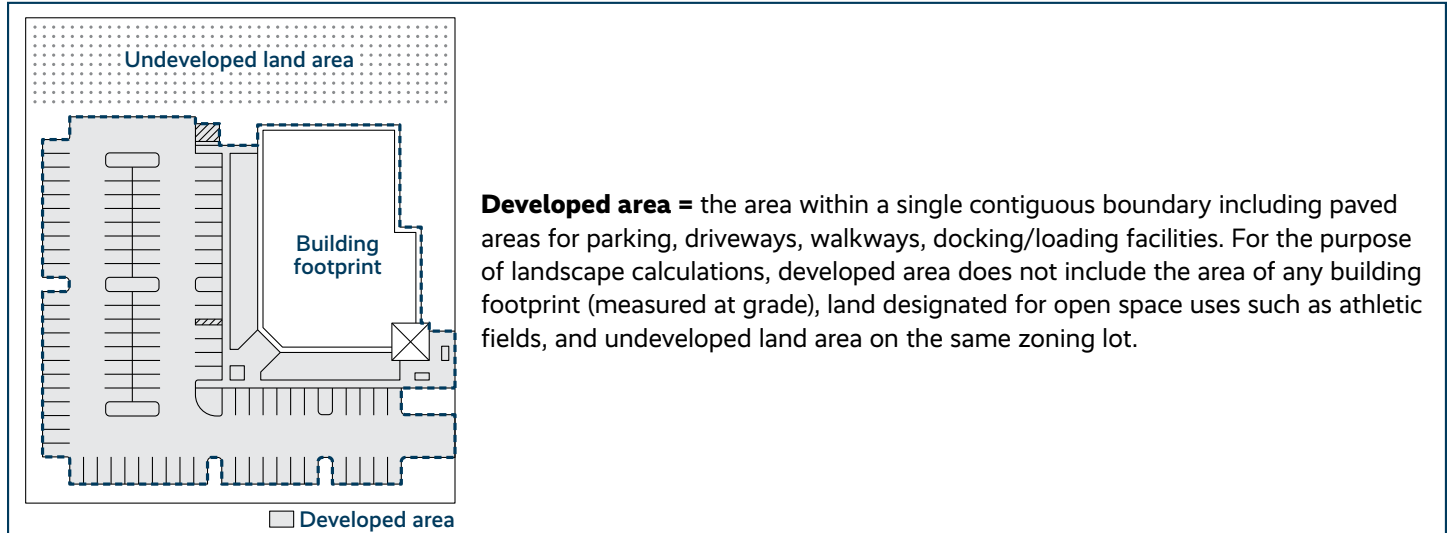
# of New Overstory Trees	Diversity Requirement
<5	None
5–50	No single species can comprise more than 33%
>50	No single species can comprise more than 20%



28.142(4)a-c

DETERMINING LANDSCAPE POINT REQUIREMENTS

Required landscaping points are calculated based upon the total “developed area” of the property.



There are three possible ways to calculate the required landscape points:

For all lots except those described as “Large Lots” or “Industrial Lots” below:

Five (5) landscape points shall be provided for each 300 square feet of developed area.

Total square footage of developed area:	sq. ft.
Total landscape points required:	points

Large Lots:

For lots larger than 5 acres, points shall be provided at 5 points per 300 square feet for the first 5 developed acres, and 1 point per 100 square feet for all additional acres.

Reference:

1 acre = 43,560 sq. ft.
5 acres = 217,800 sq. ft.

Total square footage of developed area:	sq. ft.
Subtotal A: First 5 developed acres	points
Remaining square footage of developed area	sq. ft.
Subtotal B: (1 point per 100 sq. ft.)	points
Subtotal A + Subtotal B = Total landscape points required	points

Industrial Lots:

For properties in the Industrial – Limited (IL) or Industrial – General (IG) zoning districts, 1 point is required per 100 square feet of developed area.

Total square footage of developed area:	sq. ft.
Total landscape points required:	points



28.142(4)c

TABULATING LANDSCAPE POINTS

Complete and submit this table with your complete Landscape Plan sheets to show the quantity and points for all existing and proposed landscape elements.

Project Location / Address:							
Name of Project:							
Owner / Contact:							
Contact Phone:			Contact Email:				
Plant Type / Element	Minimum Size* and Specifications at Installation	Points	Credits / Existing Landscaping		New / Proposed Landscaping		
			Quantity	Points	Quantity	Points	
Tree – Overstory deciduous	2½ inch caliper measured diameter at breast height (dbh)	35					
Tree – Tall evergreen (e.g., pine, spruce)	5–6 feet tall	35					
Tree – Ornamental	1½ inch caliper dbh	15					
Shrub – Upright evergreen (e.g., arborvitae)	3–4 feet tall	10					
Shrub, deciduous	#3 gallon container 12"–24"	3					
Shrub, other evergreen	#3 gallon container 12"–24"	4					
Ornamental grasses / perennials	#1 gallon container 8"–18"	2					
Decorative fence/wall	N/A	4 per 10 lineal ft.					
Existing significant specimen tree	• Minimum 2 ½ inch caliper dbh • Must be within developed area • Cannot count for more than 30% of total required points	14 per caliper inch dbh Maximum 200 points per tree					
Landscape furniture for public seating and/or transit connections	• Must be within developed area, publicly accessible • Cannot count for more than 5% of total required points	5 per "seat"					
SUBTOTALS:							
TOTAL LANDSCAPE POINTS:							

*As determined by ANSI, ANLA-American Standards for Nursery Stock.

CITY OF MADISON OUTDOOR LIGHTING STANDARDS



Approval Process

Submit the following to the Zoning Counter in the Inspection Unit:

1. A catalog page, cut sheet, or photograph of the lighting fixtures, including the mounting method with a graphic depiction of the lamp concealment and light cutoff angles of the lighting fixture.
2. A photometric data report of the proposed lighting fixture graphically showing the distribution in all angles vertically and horizontally around the fixture (this is available from your lighting supplier).
3. A plot plan showing:
 - a. The location of all outdoor lighting fixtures proposed,
 - b. The mounting of installation height,
 - c. The overall illumination levels and uniformities,
 - d. The point where 0.5 horizontal footcandles occurs on the property or adjacent property at a distance four (4) feet above the ground.

This may be accomplished by means of an isolux curves or a photometric plot of the illumination levels.

Design Requirements – Open Parking Facilities

The illumination requirements of an open parking facility depend on the amount of usage the facility receives. Three levels of activity shall be established as high, medium, and low, reflecting both traffic and pedestrian activity. The following examples are nonexclusive and include:

High Activity (.12): Facilities for major league athletic events or major cultural or civic events.

Medium Activity (.10): Shopping centers, retail parking areas, hospital and clinic parking areas, transportation parking (airports, commuter lots, etc.), cultural, civic or recreational events, and fast food facilities.

Low Activity (.08): Employee parking, educational facility parking, office parks, and church parking.

- An outdoor lighting system for illuminating buildings and structures shall have a maximum connected lighting load of five (5) watts per lineal foot. Watts shall mean lamp wattage and ballast consumption.
- A residential site shall be lighted to provide at least .25 footcandles on any surface in the lot with an average illumination level of at least .75 footcandles. Outdoor light fixtures shall be designed and installed to minimize light trespass. In addition, the uniformity ration between the average illumination and minimum illumination shall be no greater than 4:1.
- For an outdoor merchandising area, the maximum level of 75% in the lot shall not exceed 20 footcandles. A contiguous area not to exceed 25% of the lot may be illuminated to a level which shall not exceed 40 footcandles.
- The maximum illumination level under an outdoor canopy shall not exceed 50 footcandles at any point.

HORIZONTAL ILLUMINANCES FOR PARKING FACILITIES

a. *Open Parking Facilities*

Level of Activity	Min. Footcandles on Pavement ¹	Max. Avg. Footcandles on Pavement	Max. Uniformity Ratio ¹ (Avg:Min)	Max Watts ² /Sq. Ft. Lighting Load ³	Min. Footcandles on Pavement ¹	Max. Avg. Footcandles on Pavement	Max Uniformity Ratio ¹ (Avg:Min)
High	0.6 fc	3.75 fc	5:1	.12	.67 fc	2.5 fc	5:1
Med	0.4 fc	2.50 fc	5:1	.10	.33 fc	1.5 fc	5:1
Low	0.2 fc	1.50 fc	5:1	.08	.125 fc	1.0 fc	5:1

b. *Covered Parking Facilities*

Areas	Minimum Footcandle Average on Pavement	Minimum Footcandles on Pavement	Maximum Average Footcandles on Pavement	Maximum Uniformity Ratio (Avg:Min)	Maximum Watts/Sq. Ft. Lighting Load
General parking & ped. areas	5 fc	1.25 fc	9 fc	4:1	.2
Private controlled entry parking	3 fc	.75 fc	6 fc	4:1	.2

➤ **The International Code Council, National Electrical Code, and others may have additional requirements.**

➤ **For further information, call Building Inspection at 266-4568.**

¹ Not mandatory within 4 feet of the pavement edge.

² Not mandatory for driveways

³ Watts shall mean lap wattage and ballast consumption.



Application for Erosion Control Permit

City of Madison Engineering Division

City-County Building, Room 115 • 210 Martin Luther King, Jr. Blvd. • Madison, WI 53703

SECTION 1 – PROPERTY INFORMATION

Project Name: _____

Property Address: _____

Street (or Parcel Number)

City, State Zip

Plat or CSM

☐ East of the Capital

☐ West of the Capital

SECTION 2 – LANDOWNER INFORMATION

Company: _____

Full Name: _____

Last, First

Mailing Address: _____

Street

City, State Zip

Contact Phone: _____ Email: _____

SECTION 3 – APPLICANT INFORMATION (if different than LANDOWNER)

The applicant will be responsible for compliance with MGO Chapter 37 and the conditions of the permit, and may be cited for violations that occur on the premises.

☐ Same as LANDOWNER (check if YES, and continue with Section 4)

Company: _____

Full Name: _____

Last, First

Mailing Address: _____

Street

City, State Zip

Contact Phone: _____ Email: _____

(REQUIRED)

SECTION 4 – AUTHORIZED EROSION CONTROL INSPECTOR (IF KNOWN)

☐ Same as APPLICANT (check if YES, and continue with Section 5)

Company: _____

Full Name: _____
Last, First

Mailing Address: _____
Street

City, State Zip

Contact Phone: _____ Email: _____
(REQUIRED)

SECTION 5 – ENGINEER INFORMATION (OPTIONAL)

Engineer Name: _____

Contact Phone: _____ Email: _____

SECTION 6 – PERMIT TYPE

Check only one option.

☐ Simplified Plan Checklist – Disturbed Area < 20,000 ft², Slopes < 6% (\$100.00 permit base fee)

1. Provide construction entrances with tracking controls.
2. Protect any inlets receiving run-off from the disturbed construction area.
3. Provide perimeter control to retain sediments on the construction site.
4. Provide timely restoration with 14 days of land disturbance activities.

☐ Full Erosion Control Plan (\$200.00 permit base fee)

- Attach erosion control report and plan for review.
- See attached Standard Operating Procedures for enforcement protocols.

☐ Renewal of Expired Permit (\$50.00 permit base fee)

SECTION 7 – FEE CALCULATION**Permit Base Fee**

(Permit type selected above in Section 6)

Total Disturbed Area (ft²)

Erosion Control Area Fee - Full Erosion Control Plan ONLY (\$5/1000 ft² disturbed)

Total Fees

\$
ft ²
\$
\$

FEES RECEIVED

Office Use Only

Date _____
Amt _____
By _____

Make checks payable to "City Treasurer."

USLE Rate (ton/acre/year): _____ Construction Start Date: _____ Restoration Date: _____

All measures to be installed prior to any other construction. No disturbance, grading, stockpiles, or borrow pits shall be allowed in park area without approval by the Parks Division prior to construction. NO land disturbance work may proceed until this application has been approved and a permit issued. If the disturbed area is larger than 1 acre, permit will not be issued until copy of approved WDNR permit is received.

SECTION 8 – LANDOWNER AND APPLICANT SIGNATURE

I have reviewed and understand Chapter 37 of the Madison General Ordinances regarding erosion control, and I shall implement the control plan or checklist for this project as approved by the City.

As a condition of the granting of this permit, I authorize, and have the authority to authorize, City of Madison personnel the right-of-entry onto the above described premises for the purpose of inspecting and monitoring for compliance with the aforesaid ordinance.

Projects located in the Rock River TMDL Zone are subject to increased erosion control standards and enforcement in accordance with Resolution 14-00043 passed by the Madison Common Council on 1/21/2014 and will be expected to meet a higher standard of erosion control than the minimum standards set by the WDNR.

I acknowledge by submitting this application and signing below, that I shall be responsible for compliance with MGO Chapter 37 and the conditions of this permit.

LANDOWNER SIGNATURE

DATE

LANDOWNER NAME (PLEASE PRINT)

APPLICANT SIGNATURE

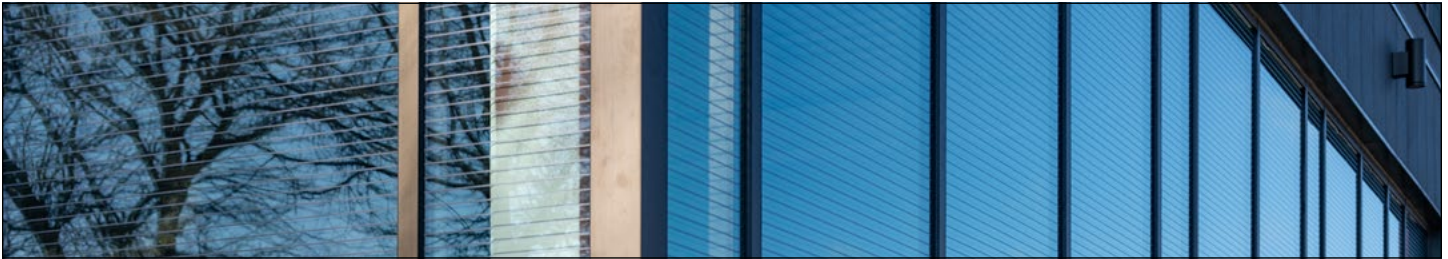
DATE

APPLICANT NAME (PLEASE PRINT)



28.129

BIRD-SAFE GLASS REQUIREMENTS



28.129(2)

APPLICABILITY

Exterior construction and development activity on new buildings or additions.

28.129(3)

GLASS MEASUREMENT

Area is measured as a continuous glass/transparent panel if mullions dividing panes are 6" wide or less. When walls or mullions over 6" wide separate panes, they are considered as individual windows. Any spandrel/opaque panels with up to 14% reflectivity do not count toward the measurement.

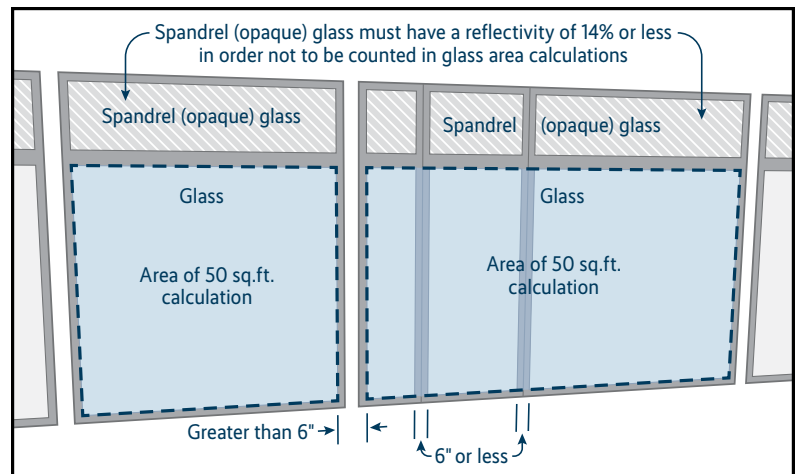


Figure 1: Determine which areas are measured as continuous glass panels

28.129(4)

BIRD-SAFE GLASS TREATMENT REQUIREMENTS

Building area or feature	Buildings over 10,000 sq ft in size (floor area above grade)				Sky-bridges and at-grade glass (e.g., screens)
	Any façade where the first 60' has at least 50% glass	Any façade where the first 60' has less than 50% glass	Glass railings	Enclosed building connections	
Where and how much Bird-Safe Glass?	85% of first 60' of building	85% of any glass-area 50 sq. ft. or more	All glass	All glass up to 60'	All glass
	All glass within 15' of "see-through" building corners	Any glass area over 50 sq. ft. within 15' of a corner			

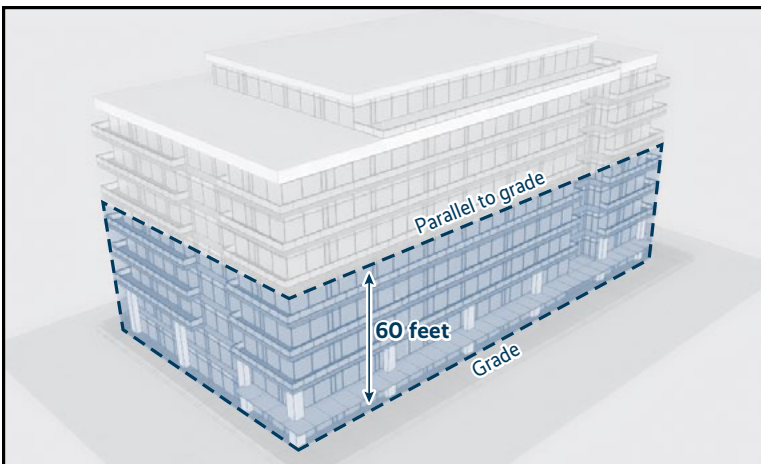


Figure 2: Certain requirements apply specifically to the first 60 feet of a building's height

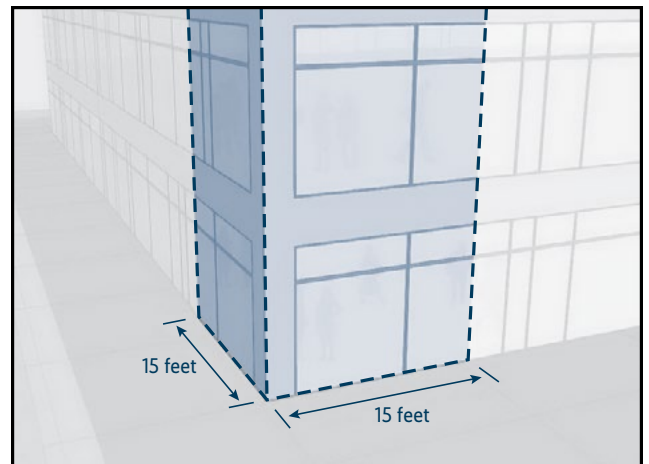


Figure 3: Specific requirements apply within 15 feet of a building's corners



28.129(4)

BIRD-SAFE GLASS TREATMENT REQUIREMENTS

Markers or etchings that make glass more visible to birds, either:

- Dots at least 5 mm or $\frac{1}{8}$ " in diameter, spaced in a 2" by 2" pattern, or
- Lines at least 5 mm or $\frac{1}{8}$ " wide spaced 2" apart, or
- Other similar mitigation treatments (*e.g.*, UV glass products rated 30 or less under the American Bird Conservancy's threat factor) approved by the Zoning Administrator

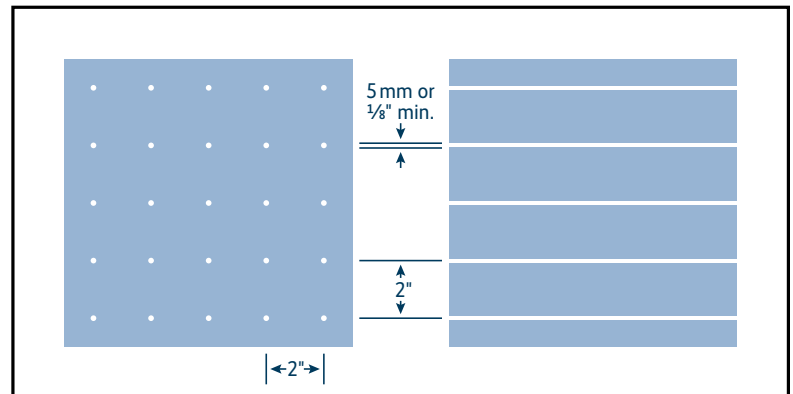


Figure 4: Examples of markers or etchings on bird-safe glass



Stormwater Management Permit Application

City of Madison Engineering Division

210 Martin Luther King Jr. Blvd. ■ City-County Building Suite 115 ■ Madison, WI 53703

Section 1 ■ Property Information

Project Name: _____

Property
Address:

Street

Lot Number(s)

Parcel Number

City

State

ZIP Code

Plat or CSM

Section 2 ■ Landowner Information

Full Name: _____

Last

First

M.I.

Mailing
Address:

Street

Apartment/Unit #

City

State

ZIP Code

Contact Phone: _____ E-Mail: _____

Section 3 ■ Applicant Information

*Applicant other than landowner requires a notarized statement authorizing the applicant to act as the landowner's agent. Form must be attached.

☐

Same as Landowner (Check if YES, and continue with Section 4)

Full Name: _____

Last

First

M.I.

Mailing
Address:

Street

Apartment/Unit #

City

State

ZIP Code

Contact Phone: _____ E-Mail: _____

Section 4 ■ Site Information

	Total Site Area	ft ²
	Existing Impervious Area (Before Project)	ft ²
(A)	New Impervious Area (Impervious area added outside any existing impervious area)	ft ²
(B)	Redeveloped Impervious Area (Impervious area redeveloped inside original impervious area footprint)	ft ²
	Removed Impervious Area (From inside original impervious area footprint)	ft ²
	Net Impervious Area (After Project)	ft ²

Work to be performed by (if known): ☐ Same as Applicant (Check if YES) ☐ Same as Landowner (Check if YES)

Construction Contact: _____

Contact Phone: _____ E-Mail: _____

Stormwater Management Report/Plan to be attached.
*****Please note application cannot be processed without report/plan*****

Section 5 ■ Fee Calculation

Use information from Section 4 above for (A) and (B)

Permit Base Fee	\$ 400.00
(A) New Impervious Area Fee (\$10/1000 ft ²)	\$ _____
(B) Redeveloped Impervious Area (\$5/1000 ft ²)	\$ _____
Total Fees	\$ _____

FEES RECEIVED
Office Use Only

Date _____

Amt _____

By _____

Section 6 ■ Stormwater Management Requirements

- | | | | | | | | |
|--------------------------|--------------------------------|--------------------------|-----------------------|--------------------------|---------------------|--------------------------|--------------------------|
| ☐ | TSS Reduction: | ☐ | New Development (80%) | ☐ | Redevelopment (40%) | ☐ | Redevelopment TMDL (80%) |
| ☐ | Oil & Grease Removal | | | | | | |
| ☐ | Runoff Rate Control/Detention | | | | | | |
| ☐ | Infiltration | | | | | | |
| ☐ | Groundwater Recharge | | | | | | |
| ☐ | Thermal Control | | | | | | |
| ☐ | Maintenance Agreement Executed | | | | | | |

Construction Start Date _____ Estimated Project Completion Date _____

Section 7 ■ Applicant Signature

I have reviewed and understand Chapter 37 of the Madison General Ordinances regarding erosion control, and I shall implement the control plan or checklist for this project as approved by the city.

I further, in accordance with Chapter 37, grant the right-of-entry onto this property, as described above, to the designated personnel of the City of Madison for the purpose of inspecting and monitoring for compliance with the aforesaid ordinance.

Applicant Signature _____ Date of Application _____

**Applicant other than landowner requires a notarized statement authorizing the applicant to act as the landowner's agent—must be attached*

APPLICATION TO EXCAVATE IN PUBLIC RIGHT-OF-WAY SUBMITTAL CHECKLIST

Submittal Includes:

- ☐ Back of curb, right-of-way, property lines, and existing City utilities (water, sanitary sewer, storm sewer, and traffic engineering) displayed on site plan(s).
The City of Madison Engineering Dept. posts utility data online for viewing through a web-based program called GTWeb. To register, please contact: gtweb@cityofmadison.com
- ☐ Dimensions provided off of the existing features listed above to proposed utility placement.
- ☐ Traffic Control Plan (including pedestrian & bicycle designs as well as any temporary measures for potholing where applicable,).
Submissions may be able to reference individual pages from the Work Zone Safety Handbook that correlate with site conditions:
http://epdfiles.engr.wisc.edu/pdf_web_files/tic/handbooks/WorkZoneSafety.pdf
- ☐ Expected areas of ROW occupancy for installation equipment shown (work zones).
- ☐ All contractors and subcontractors performing work listed on application.
All contractors & subcontractors must be pre-qualified with the City of Madison
- ☐ Copy of notification letter mailed to property owners and list of property owners notified for projects extending more than one block in residential or commercial areas.
 - ☐ N/A (project is less than 1 block in length)

APPLICATIONS THAT DO NOT MEET THESE CRITERIA WILL BE REJECTED.

Clearance requirements for design of proposed utility installations:

	<u>Horizontal Clearance (ft)</u>	<u>Vertical Clearance (ft)</u>
Back of Curb	6	-
Sanitary Sewer (mains, laterals and structures)	3	2
Storm Sewer (mains, laterals, and structures)	3	2
Traffic Engineering (conduit and structures)	3	3
Water Utility (mains, valves, services, and hydrants)	4	3

Submittal instructions: Include a pdf copy of this form at the front of your SWM report. A copy of the excel file shall also be submitted available at:

<https://www.cityofmadison.com/engineering/permits/stormwater-management-permit>

All boxes shaded green should be populated.

For sites with multiple basins, multiple copies of the Peak Runoff Rates and Volumes table may be needed.

Project Name	
Street Address	
Parcel Number	
Project Description (1-3 sentences):	

Site Impervious Area Summary	Square Feet	Acres
Total Site Area		-
Existing Impervious Area		-
New Impervious Area		-
Redeveloped Impervious Area		-
Removed Impervious Area		-
Net Impervious Area	-	-

Parcel Area Summary	Square Feet	Acres
Total Parcel Area		0.00
Total Site Area Draining to SWM BMP(s)		0.00
Total Offsite Area Draining to SWM BMP(s)		0.00
Total Uncontrolled Area		0.00

TSS Removal		
Number of lbs (without controls)	Number of lbs (with controls)	% Reduction
		#DIV/0!

Phosphorus Removal			
Number of lbs (without controls)	Number of lbs (with controls)	% Reduction	Does BMP have an underdrain? (Y/N)
		#DIV/0!	

Peak Runoff Rates and Volumes	Predevelopment		Post Development		Reduction %		Peak Water Elevation in Basin (ft)
	Rate (cfs)	Volume (ac-ft)	Rate (cfs)	Volume (ac-ft)	Rate (%)	Volume (%)	
1-Year, 24-Hour Storm (2.49")					#DIV/0!	#DIV/0!	
2-Year, 24-Hour Storm (2.84")					#DIV/0!	#DIV/0!	
5-Year, 24-Hour Storm (3.51")					#DIV/0!	#DIV/0!	
10-Year, 24-Hour Storm (4.09")					#DIV/0!	#DIV/0!	
100-Year, 24-Hour Storm (6.66")					#DIV/0!	#DIV/0!	
200-Year, 24-Hour Storm (7.53")					#DIV/0!	#DIV/0!	
500-Year, 24-Hour Storm (8.94")					#DIV/0!	#DIV/0!	

Redevelopment Metrics (if applicable)		Reduction Provided	
Does proposed impervious area exceed 80% of existing site impervious area? (If NO, you can skip to the next section)	NO	#DIV/0!	
Peak Runoff Rates from the site reduced by 15% during a 10-year storm	N/A	#DIV/0!	
Reduce runoff volume by 5% from the site during 10-year storm	N/A	#DIV/0!	
Minimum Required Storage for First 1/2" of Rainfall over New + Redeveloped Impervious Area	-	cf	- ac-ft
Storage Provided by Green Infrastructure		cf	
Green infrastructure provides detention for first 1/2" of rainfall	N/A		

Infiltration			
Predevelopment Stay On (inches)	Required Stay On (inches)	Provided Stay On (inches)	90% Infiltration Achieved
			NO

Oil and Grease Control	
Oil and Grease Control Required? (Y/N)	
BMP	Quantity
Bioretention Basin	
Inlet filters	
Snout System	
Rock Trench	

Thermal Control (Sugar River Watershed only)	
Thermal Control Required? (Y/N)	
BMP	Quantity
Bioretention Basin	
Infiltration Basin	
Rock Trench	
Other	

Flooding Checks (if applicable)	
Lowest opening elevation of proposed development	ft
Confirm that overflow from pond does not enter any structures.	Not Applicable
If site has underground parking and trench drain, confirm there's a safe overflow route/sump pump is sized for the 100-year storm.	Not Applicable



City of Madison Fire Department

30 West Mifflin Street, 8th & 9th Floors, Madison, WI 53703-2579

Phone: 608-266-4420 • Fax: 608-267-1100 • E-mail: fire@cityofmadison.com

Project Address:

Contact Name & Phone #:

FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

1. Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system?	☐ Yes	☐ No	☐ N/A
If non-sprinklered , fire lanes extend to within 150-feet of all portions of the exterior wall?	☐ Yes	☐ No	☐ N/A
If sprinklered , fire lanes are within 250-feet of all portions of the exterior wall?	☐ Yes	☐ No	☐ N/A
2. Is the fire lane constructed of concrete or asphalt, designed to support a minimum load of 85,000 lbs?	☐ Yes	☐ No	☐ N/A
a) Is the fire lane a minimum unobstructed width of at least 20-feet?	☐ Yes	☐ No	☐ N/A
b) Is the fire lane unobstructed with a vertical clearance of at least 13½-feet?	☐ Yes	☐ No	☐ N/A
c) Is the minimum inside turning radius of the fire lane at least 28-feet?	☐ Yes	☐ No	☐ N/A
d) Is the grade of the fire lane not more than a slope of 8%?	☐ Yes	☐ No	☐ N/A
e) Is the fire lane posted as fire lane? (Provide detail of signage.)	☐ Yes	☐ No	☐ N/A
f) Is a roll-able curb used as part of the fire lane? (Provide detail of curb.)	☐ Yes	☐ No	☐ N/A
g) Is part of a sidewalk used as part of the required fire lane? (Must support +85,000 lbs.)	☐ Yes	☐ No	☐ N/A
3. Is the fire lane obstructed by security gates or barricades? If yes:	☐ Yes	☐ No	☐ N/A
a) Is the gate a minimum of 20-feet clear opening?	☐ Yes	☐ No	☐ N/A
b) Is an approved means of emergency operations installed, key vault, padlock or key switch?	☐ Yes	☐ No	☐ N/A
4. Is the Fire lane dead-ended with a length greater than 150-feet?	☐ Yes	☐ No	☐ N/A
If yes, does the area for turning around fire apparatus comply with IFC D103?	☐ Yes	☐ No	☐ N/A
5. Is any portion of the building to be used for high-piled storage in accordance with IFC Chapter 3206.6	☐ Yes	☐ No	☐ N/A
If yes, see IFC 3206.6 for further requirements.			
6. Is any part of the building <u>greater than 30-feet</u> above the grade plane?	☐ Yes	☐ No	☐ N/A
If yes, answer the following questions:			
a) Is the aerial apparatus fire lane parallel to one entire side of the building and covering at least 25% of the perimeter?	☐ Yes	☐ No	☐ N/A
b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building?	☐ Yes	☐ No	☐ N/A
c) Are there any overhead power or utility lines located across the aerial apparatus fire lane?	☐ Yes	☐ No	☐ N/A
d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species)	☐ Yes	☐ No	☐ N/A
e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet?	☐ Yes	☐ No	☐ N/A
f) Is the space between the aerial lane and the building free of trees exceeding 20' in heights?	☐ Yes	☐ No	☐ N/A
7. Are all portions of the required fire lanes within 500-feet of at least (2) hydrants?	☐ Yes	☐ No	☐ N/A
<i>Note: Distances shall be measured along the path of the hose lay as it comes off the fire apparatus.</i>			
a) Is the fire lane at least 26' wide for at least 20-feet on each side of the hydrants?	☐ Yes	☐ No	☐ N/A
b) Is there at least 40' between a hydrant and the building?	☐ Yes	☐ No	☐ N/A
c) Are the hydrant(s) setback no less than 5-feet nor more than 10-feet from the curb or edge of the street or fire lane?	☐ Yes	☐ No	☐ N/A
d) Are hydrants located in parking lot islands a minimum of 3½-feet from the hydrant to the curb?	☐ Yes	☐ No	☐ N/A
e) Are there no obstructions, including but not limited to: power poles, trees, bushes, fences, posts located, or grade changes exceeding 1½-feet, within 5-feet of a fire hydrant?	☐ Yes	☐ No	☐ N/A
<i>Note: Hydrants shall be installed and in-service prior to combustible construction on the project site.</i>			

Attach an additional sheet if further explanation is required for any answers.

This worksheet is based on **MGO 34.503** and **IFC 2012 Edition Chapter 5 and Appendix D**; please see the codes for further information.



ELECTRIC VEHICLE CHARGING

EV Ready Requirements for Parking Facilities

28.141(8)(e)

ELECTRIC VEHICLE CHARGING STATION REQUIREMENTS.

Parking facilities shall be designed and built to meet the following requirements:

28.141(8)(e)(1)

APPLICABILITY.

- Any new parking facility
- Any parking facility expanded by 50%, as measured in parking spaces being created after January 1, 2021.
- A parking facility may be maintained or reconstructed without triggering the requirements of this subdivision; however, where more than 10,000 square feet of the paving and base in place on January 1, 2021 is removed from an existing parking lot and new paving and base is installed, these requirements shall apply.



28.141(8)(e)(2)

RESIDENTIAL STANDARDS.

Where 6 or more parking spaces are being provided for residential uses, the following standards must be met:

28.141(8)(e)(3)

NON-RESIDENTIAL STANDARDS.

Where parking is being provided for certain uses where people park in excess of six hours, as specified in this paragraph, the following standards must be met:

ELECTRIC VEHICLE CHARGING STATION REQUIREMENTS		
	RESIDENTIAL Spaces	NON-RESIDENTIAL Spaces
YEARS	EV Ready	EV Ready
2021 – 2025	10%	10%
2026 – 2030	20%	20%
2031 – 2035	30%	30%
2036 – 2040	40%	40%
2041 +	50%	50%
Application:	Where six or more parking spaces are being provided for residential uses	Where parking is being provided for certain uses where people park in excess of six hours

28.141(8)(e)(3)(a)

Applies to these uses:

- College, University or Similar Institutions of Higher Learning
- Hotel, Inn, Motel
- Hospital and Health Clinic
- Office
- Parking Facility, Private and Public
- Schools, Arts, Technical or Trade
- Any other use where people are typically expected to park vehicles in excess of six hours except for those uses specified as not applicable

28.141(8)(e)(3)(b)

Does Not Apply to these uses:

- Manufacturing
- Restaurants
- Retail
- Service Business
- Warehousing and Storage

28.141(8)(e)(5)

COMPUTATION.

Fractional space requirements of up to one-half ($\frac{1}{2}$) space shall be rounded down to the next whole number and greater than one-half ($\frac{1}{2}$) rounded up to the next whole number.



EXAMPLE CALCULATIONS using the first tier 2021 – 2025 requirements:

PARKING STRUCTURES AND LOTS						
Total Stalls in Lot	6 Stalls	26 Stalls	50 Stalls	75 Stalls	100 Stalls	200 Stalls
EV Ready 10% =	(0.6) = 1 space	(2.6) = 3 spaces	(5) = 5 spaces	(7.5) = 7 spaces	(10) = 10 spaces	(20) = 20 spaces
NOTE: Fractional space requirements of up to one-half space shall be rounded down to the next whole number; >½ rounds up to next whole number						

28.211

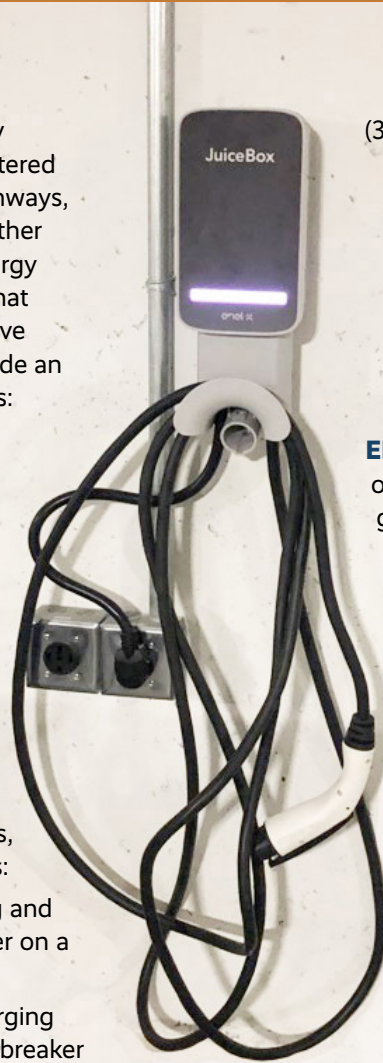
DEFINITIONS.

ELECTRIC VEHICLE or **EV** means any motor vehicle that is licensed and registered for operation on public and private highways, roads, and streets, and that operates either partially or exclusively, on electrical energy from the grid, or an off-board source, that is stored onboard via a battery for motive purpose. Electric Vehicle does not include an electric bicycle. Electric Vehicle includes:

- (1) A battery electric vehicle; and
- (2) A plug-in hybrid electric vehicle.

ELECTRIC VEHICLE CHARGING STATION. A parking space, or parking spaces, that is, or are, equipped with and served by electric vehicle supply equipment for the purpose of transferring electric energy to a battery or other energy storage device in an electric vehicle. The terms Level 1, 2, and 3 charging stations are the most common electric vehicle charging levels, and include the following specifications:

- (1) Level 1 is considered slow charging and operates on a 15 to 20 amp breaker on a 120 volt AC circuit.
- (2) Level 2 is considered medium charging and operates on a 40 to 100 amp breaker on a 208 or 240 volt AC circuit.



- (3) Level 3 is considered “fast” or “rapid” charging and typically operates on a 60 amp or higher breaker on a 480 volt or higher three phase circuit with special grounding equipment. Level 3 stations are primarily for commercial and public applications and are typically characterized by industrial grade electrical outlets that allow for faster recharging of electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT or **EVSE** are the conductors, including the ungrounded, grounded, and equipment grounding conductors, and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

EV READY SPACE means a designated parking space which is provided with electrical panel capacity and space to support a minimum 40-ampere, 208/240-volt branch circuit, and the installation of raceways, both underground and surface mounted, to support the future installation of EVSE to serve the parking space.