

# URBAN DESIGN COMMISSION APPLICATION

# UDC

City of Madison  
Planning Division  
126 S. Hamilton St.  
P.O. Box 2985  
Madison, WI 53701-2985  
(608) 266-4635



## FOR OFFICE USE ONLY:

Paid \_\_\_\_\_ Receipt # \_\_\_\_\_  
Date received \_\_\_\_\_  
Received by \_\_\_\_\_  
Aldermanic District \_\_\_\_\_  
Zoning District \_\_\_\_\_  
Urban Design District \_\_\_\_\_  
Submittal reviewed by \_\_\_\_\_

Complete all sections of this application, including the desired meeting date and the action requested.

*If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the phone number above immediately.*

## 1. Project Information

Address: 5535 University Avenue  
Title: \_\_\_\_\_

## 2. Application Type (check all that apply) and Requested Date

UDC meeting date requested October 24, 2018  
 New development       Alteration to an existing or previously-approved development  
 Informational       Initial approval       Final approval

## 3. Project Type

Project in an Urban Design District  
 Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)  
 Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)  
 Planned Development (PD)  
     General Development Plan (GDP)  
     Specific Implementation Plan (SIP)  
 Planned Multi-Use Site or Residential Building Complex

**Signage**  
 Comprehensive Design Review (CDR)  
 Signage Variance (i.e. modification of signage height, area, and setback)

**Other**  
 Please specify \_\_\_\_\_

## 4. Applicant, Agent, and Property Owner Information

**Applicant name** Martin O'Connor      **Company** 5533 University Ave., LLC  
**Street address** 3120 Edmonton Dr Ste 300      **City/State/Zip** Sun Prairie WI 53590  
**Telephone** 608-712-1463      **Email** marty@homeagainliving.com

**Project contact person** Randy Bruce      **Company** Knothe & Bruce Architects, LLC  
**Street address** 7601 University Avenue, Suite 201      **City/State/Zip** Middleton, WI 53562  
**Telephone** 608-836-3690      **Email** rbruce@knothebruce.com

**Property owner (if not applicant)** same  
**Street address** \_\_\_\_\_      **City/State/Zip** \_\_\_\_\_  
**Telephone** \_\_\_\_\_      **Email** \_\_\_\_\_

**5. Required Submittal Materials**

- Application Form**
- Letter of Intent**
  - If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required
  - For signage applications, a summary of how the proposed signage is consistent with the applicable CDR or Signage Variance review criteria is required.
- Development plans** (Refer to checklist provided below for plan details)
- Filing fee**
- Electronic Submittal\***

Each submittal must include fourteen (14) 11" x 17" collated paper copies. Landscape and Lighting plans (if required) must be full-sized. Please refrain from using plastic covers or spiral binding.

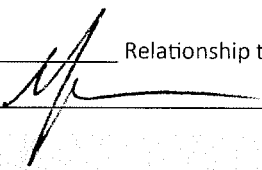
Both the paper copies and electronic copies must be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. A completed application form is required for each UDC appearance.

For projects also requiring Plan Commission approval, applicants must also have submitted an accepted application for Plan Commission consideration prior to obtaining any formal action (initial or final approval) from the UDC. All plans must be legible when reduced.

*\*Electronic copies of all items submitted in hard copy are required. Individual PDF files of each item submitted should be compiled on a CD or flash drive, or submitted via email to [udcapplications@cityofmadison.com](mailto:udcapplications@cityofmadison.com). The email must include the project address, project name, and applicant name. Electronic submittals via file hosting services (such as Dropbox.com) are not allowed. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.*

**6. Applicant Declarations**

1. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with Chris Wells on 7/18/2018.
2. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Applicant name MARTIN O'CONNOR Relationship to property \_\_\_\_\_  
 Authorized signature of Property Owner  Date 8/30/18

**7. Application Filing Fees**

Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part of the combined application process involving the Urban Design Commission in conjunction with Plan Commission and/or Common Council consideration. Make checks payable to City Treasurer. Credit cards may be used for application fees of less than \$1,000.

Please consult the schedule below for the appropriate fee for your request:

- Urban Design Districts: \$350 (per §35.24(6) MGO).
- Minor Alteration in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) : \$150 (per §33.24(6)(b) MGO)
- Comprehensive Design Review: \$500 (per §31.041(3)(d)(1)(a) MGO)
- Minor Alteration to a Comprehensive Sign Plan: \$100 (per §31.041(3)(d)(1)(c) MGO)
- All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for signage variances (i.e. modifications of signage height, area, and setback), and additional sign code approvals: \$300 (per §31.041(3)(d)(2) MGO)

A filing fee is not required for the following project applications if part of the combined application process involving both Urban Design Commission and Plan Commission:

- Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
- Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
- Planned Development (PD): General Development Plan (GDP) and/or Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Residential Building Complex

## Introduction

The City of Madison's Urban Design Commission (UDC) has been created to:

- Encourage and promote high quality in the design of new buildings, developments, remodeling, and additions so as to maintain and improve the established standards of property values within the City.
- Foster civic pride in the beauty and nobler assets of the City, and in all other ways possible assure a functionally efficient and visually attractive City in the future.

## Types of Approvals

There are three types of requests considered by the UDC:

- Informational Presentation. Applicants may, at their discretion, request to make an Informational Presentation to the UDC prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design. Applicants should provide details on the context of the site, design concept, site and building plans, and other relevant information to help the UDC understand the proposal and provide feedback. (Does not apply to CDR's or Signage Variance requests)
- Initial Approval. Applicants may, at their discretion, request initial approval of a proposal by presenting preliminary design information. As part of their review, the Commission will provide feedback on the design information what should be addressed at Final Approval stage.
- Final Approval. Applicants may request Final Approval of a proposal by presenting all final project details. Recommendations or concerns expressed by the UDC in the initial approval must be addressed at this time.

## Presentations to the Commission

Primarily, the UDC is interested in the appearance and design quality of projects. Emphasis should be given to the site plan, landscape plan, lighting plan, building elevations, exterior building materials, color scheme, and graphics.

When presenting projects to the UDC, applicants must fill out a registration slip provided in the meeting room and present it to the Secretary. Presentations should generally be limited to 5 minutes or as extended by motion by consent of the Commission. The Commission will withhold questions until the end of the presentation.

Applicants are encouraged to consider the use of various graphic presentation material including a locator map, photographs, renderings/model, scale drawings of the proposal in context with adjacent buildings/uses/signs, etc., as may be deemed appropriate to describe the project and its surroundings. Graphics should be mounted on rigid boards so that they may be easily displayed. **Applicants/presenters are responsible for all presentation materials, AV equipment and easels.**

# URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

# UDC

The items listed below are minimal application requirements for the type of approval indicated. Please note that the UDC and/or staff may require additional information in order to have a complete understanding of the project.

## 1. Informational Presentation

- Locator Map
- Letter of Intent (If the project is within a Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- Contextual site information, including photographs and layout of adjacent buildings/structures
- Site Plan
- Two-dimensional (2D) images of proposed buildings or structures.

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

### Requirements for All Plan Sheets

1. Title block
2. Sheet number
3. North arrow
4. Scale, both written and graphic
5. Date
6. Fully dimensioned plans, scaled at 1" = 40' or larger

**\*\* All plans must be legible, including the full-sized landscape and lighting plans (if required)**

## 2. Initial Approval

- Locator Map
- Letter of Intent (If the project is within a Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- Contextual site information, including photographs and layout of adjacent buildings/structures
- Site Plan showing location of existing and proposed buildings, walks, drives, bike lanes, bike parking, and existing trees over 18" diameter
- Landscape Plan and Plant List (*must be legible*)
- Building Elevations in both black & white and color for all building sides (include material callouts)
- PD text and Letter of Intent (if applicable)

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

## 3. Final Approval

All the requirements of the Initial Approval (see above), **plus**:

- Grading Plan
- Proposed Signage (if applicable)
- Lighting Plan, including fixture cut sheets and photometrics plan (*must be legible*)
- Utility/HVAC equipment location and screening details (with a rooftop plan if roof-mounted)
- PD text and Letter of Intent (if applicable)
- Samples of the exterior building materials (presented at the UDC meeting)

## 4. Comprehensive Design Review (CDR) and Variance Requests (Signage applications only)

- Locator Map
- Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Variance criteria is required)
- Contextual site information, including photographs of existing signage both on site and within proximity to the project site
- Site Plan showing the location of existing signage and proposed signage, dimensioned signage setbacks, sidewalks, driveways, and right-of-ways
- Proposed signage graphics (fully dimensioned, scaled drawings, including materials and colors, and night view)
- Perspective renderings (emphasis on pedestrian/automobile scale viewsheds)
- Graphic of the proposed signage as it relates to what the Ch. 31, MGO would permit



September 5, 2018

Ms. Heather Stouder  
Department of Planning & Development  
City of Madison  
146 S. Hamilton Street  
P.O. Box 2985  
Madison, Wisconsin 53701



Re: Letter of Intent  
5535 University Avenue  
**KBA Project # 1735**

Ms. Heather Stouder:

The following is submitted together with the plans and application for the staff and Plan Commission's consideration of approval.

**Organizational Structure:**

Owner:	5533 University Ave., LLC 3120 Edmonton Drive, Suite 300 Sun Prairie, WI 53590 608-712-1463 Contact: Martin O'Connor <a href="mailto:marty@homeagainliving.com">marty@homeagainliving.com</a>	Architect:	Knothe & Bruce Architects, LLC 7601 University Avenue, Ste 201 Middleton, WI 53562 608-836-3690 Contact: Randy Bruce <a href="mailto:rbruce@knothebruce.com">rbruce@knothebruce.com</a>
Engineer:	Snyder & Associates, Inc. 5010 Voges Rd Madison, WI 53718 (608) 838-0444 Contact: Mike Calkins <a href="mailto:mcalkins@snyder-associates.com">mcalkins@snyder-associates.com</a>	Landscape Design:	Nelson Landscaping, Inc. P.O. Box 823 Waukesha, WI 53187 (608) 262-549-6111 Contact: Corey Nelson <a href="mailto:Corey@nelsonlandscape.com">Corey@nelsonlandscape.com</a>

**Introduction:**

This submittal requests a revision to the Conditional Use approval approved by the Plan Commission at the January 8, 2018 meeting. The revisions to the plans have been implemented to improve the project and make the building more efficient. The unit mix has been adjusted and the unit count has increased slightly from 56 apartments to 60 apartments. The site plan has also been adjusted to relocate the vehicular access to University Avenue further east, minimizing conflicts with the Capitol Avenue intersection and the future bus stop. The exterior architecture remains consistent with the originally approved plan.

**The following letter of intent has been updated to reflect the proposed revisions:**

The site is located at the southeast corner of University Avenue and Capitol Street and is currently zoned Neighborhood Mixed-Use. The site is currently occupied by a 1-story retail business that served as the former Brennan's Market. This proposal requests a revised conditional use approval for a mixed-use development with commercial uses on the first floor and three levels of housing above the commercial. A Certified Survey Map has been submitted to combine the underlying parcels into one lot.

**Project Description:**

This proposed project is a mixed-use development consisting of approximately 5,600 square feet of retail space and 60 apartments with vehicle parking located primarily below the building in two levels; at the grade and basement levels. Along University Avenue, a generous set back is provided to allow for a landscape buffer and the building is stepped back above the third floor to reduce the perceived height. The building also has significant setbacks on the side and rear lot lines allowing for landscaping and solar access to neighboring properties.

The exterior architecture is a clean urban architecture. On the street and eastern facades, the major material is brick masonry accented with fiber-cement siding. Towards the rear of the building the material palette uses a higher amount of fiber-cement siding consistent with the transition to the residential uses to the south.

**Spring Harbor Neighborhood Plan and UDD #6**

This project is consistent with the goals and guidelines of both the Spring Harbor Neighborhood Plan and the UDD #6 Guidelines. The SHNP calls for attractive mixed-use development at specified redevelopment sites including the Brennan’s Market site. In addition, the plan calls for pedestrian-oriented and transit-oriented development to occur; both of which are met with the proposed plan. The commercial use face the two streets and have direct pedestrian access. A Madison Metro bus stop is currently located at the street intersection but the City of Madison has plans in the future for the bus stop to be located along University Avenue in front of the commercial area.

UDD # 6 generally refers to the SHNP but specifically calls for a minimum and maximum building height of three to four stories with parking areas located to the rear of the site.

**Site Development Data:**

Densities:

	<b><u>Previously Approved</u></b>	<b><u>Proposed</u></b>
Lot Area	48,517 sf / 1.1 Acres	48,517 sf / 1.1 Acres
Dwelling Units	56 D.U.	60 D.U.
Lot Area / D.U.	867 sf / unit	808 sf / unit
Density	51 units/acre	54 units/acre
Gross Commercial Area	5,812 sf (50% of first floor)	5,617 sf (44% of first floor)
Non-Residential Area (inc. 1 <sup>st</sup> floor parking)	9,821 sf	9,322 sf

Building Height	4 stories	4 stories
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Lot Coverage	34,249 S.F. = 70.5%	35,772 S.F. = 73.7%
Usable Open Space	11,140 S.F. (199 sf / D.U.)	9,615 S.F. (160 sf / D.U.)

**Dwelling Unit Mix:**

Efficiency	15	18
One Bedroom	25	29
One Bedroom + Den	3	1
<u>Two Bedroom</u>	<u>13</u>	<u>12</u>
Total Dwelling Units	56	60

**Vehicle Parking:**

Surface	28 stalls	38 stalls
<u>Underground</u>	<u>61 stalls</u>	<u>50 stalls</u>
Total	89 stalls	88 stalls

**Bicycle Parking:**

Surface Commercial	4 stalls	4 stalls
Surface Guest	6 stalls (10% of units)	6 stalls (10% of units)
Underground Garage – Wall Hung	16 stalls (covered)	15 stalls (covered)
<u>Underground Garage STD. 2'x6'</u>	<u>38 stalls (covered)</u>	<u>45 stalls (covered)</u>
Total	64 stalls	70 stalls

**Project Schedule:**

It is anticipated that the construction on this site will start in Spring 2019 with a final completion date of Spring 2020.

Thank you for your time reviewing our proposal.

Sincerely,



Randy Bruce, AIA

5533 University Avenue-Legal Description

STOEBER ADDITION, LOTS 1 AND 2 AND PRT OF LOT 3 DESC AS FOL, BEG AT S COR LOT 2, TH NLY 150 FT TO W COR LOT 2, TH N 22 DEG 17 MIN W 10.53 FT, TH S 49 DEG 29 MIN W 28.29 FT, TH S 40 DEG 31 MIN E 160 FT TO S LN LOT 3, TH E 25 FT ALG SD LN TO POB, EXC THAT PART DESC AS FOL COM ELY COR OF SD LOT 1 TH N 40 DEG 31 MIN 00 SEC W 76.44 FT TO POB, TH N 48 DEG 14 MIN 18 SEC W 23.57 FT TO PT OF CONCAVE CUR, RAD 15 FT, CHRD BRS N 85 DEG 41 MIN 10 SEC W 18.24 FT, TH S 56 DEG 51 MIN 59 SEC W 14.72 FT TO PT OF CONCAVE CUR TO NW, RAD 659.20 FT, CHRD BRS N 51 DEG 08 MIN 45 SEC E 15.90 FT TO PT OF CONCAVE CUR TO S, RAD 15.05 FT, CHRD BRS S 85 DEG 01 MIN 52 SEC E 21.10 FT, TH S 40 DEG 31 MIN 00 SEC E 22.6 FT TO POB.

## Denise Salimes

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**From:** Clear, Mark <district19@cityofmadison.com>  
**Sent:** Wednesday, July 18, 2018 8:08 AM  
**To:** Randy Bruce  
**Cc:** Denise Salimes; Wells, Chris  
**Subject:** Re: Brennan Redevelopment

Randy (and Chris), please consider this email as a pre-pre-application waiver, should such be needed.

Mark C.

On Wed, Jul 18, 2018 at 7:49 AM -0500, "Randy Bruce" <[RBruce@knothebruce.com](mailto:RBruce@knothebruce.com)> wrote:

Mark,

Thanks for meeting with us on June 26th to discuss the proposed revisions to the Brennan's development. I tried to meet with the neighborhood Board at their July Board meeting but that was cancelled, so we will present to the Board at their August meeting. I suspect they will consider the changes minor as you had.

I am meeting this morning with the planning staff to determine if they consider our revisions to be a minor or major alteration. In the event that the major alteration process is required can you provide us a waiver of the 30 day pre-application notice? If we are to go the major alt route then we will start that process with an application today.

Thanks for the assistance and best wishes with your new ventures!

J. Randolph Bruce, AIA | Managing Member | [Knothe & Bruce Architects, LLC](http://Knothe & Bruce Architects, LLC) | Ph: 608.836.3690, ext. 101  
7601 University Avenue, Middleton, WI 53562 | [rbruce@knothebruce.com](mailto:rbruce@knothebruce.com)



# D-Series Size 0 LED Area Luminaire



Catalog Number
Notes
Type

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

## A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

- See ordering tree for details.
- A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

## Specifications

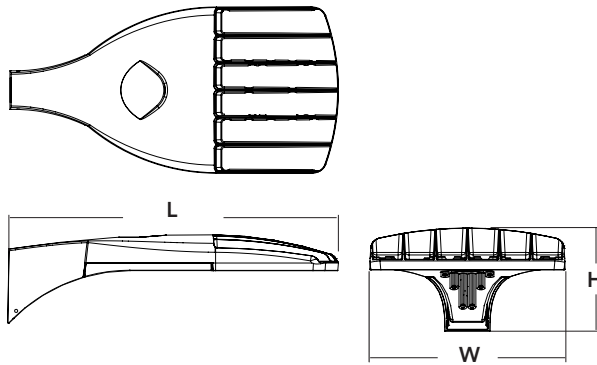
**EPA:** 0.95 ft<sup>2</sup>  
(.09 m<sup>2</sup>)

**Length:** 26"  
(66.0 cm)

**Width:** 13"  
(33.0 cm)

**Height:** 7"  
(17.8 cm)

**Weight (max):** 16 lbs  
(7.25 kg)



A+ Capable options indicated by this color background.

## Ordering Information

**EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA DDBXD**

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	<b>Forward optics</b> P1 P4 P7 P2 P5 P3 P6 <b>Rotated optics</b> P10 <sup>1</sup> P12 <sup>1</sup> P11 <sup>1</sup> P13 <sup>1</sup>	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted <sup>2</sup>	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium TSVS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control <sup>2,3</sup> LCCO Left corner cutoff <sup>3</sup> RCCO Right corner cutoff <sup>3</sup>	MVOLT <sup>4</sup> 120 <sup>5</sup> 208 <sup>5</sup> 240 <sup>5</sup> 277 <sup>5</sup> 347 <sup>5,6</sup> 480 <sup>5,6</sup>	<b>Shipped included</b> SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor <sup>7</sup> RPUMBA Round pole universal mounting adaptor <sup>7</sup> <b>Shipped separately</b> KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>8</sup>

Control options	Other options	Finish (required)
<b>Shipped installed</b> <b>PER</b> NEMA twist-lock receptacle only (control ordered separate) <sup>9</sup> <b>PER5</b> Five-wire receptacle only (control ordered separate) <sup>9,10</sup> <b>PER7</b> Seven-wire receptacle only (control ordered separate) <sup>9,10</sup> <b>DMG</b> 0-10V dimming extend out back of housing for external control (control ordered separate) <b>PIR</b> Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>11,12</sup> <b>PIRH</b> Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>11,12</sup> <b>PIR1FC3V</b> Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>11,12</sup>	<b>PIRH1FC3V</b> Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>11,12</sup> <b>BL30</b> Bi-level switched dimming, 30% <sup>13,14</sup> <b>BL50</b> Bi-level switched dimming, 50% <sup>13,14</sup> <b>PNMTDD3</b> Part night, dim till dawn <sup>15</sup> <b>PNMT5D3</b> Part night, dim 5 hrs <sup>15</sup> <b>PNMT6D3</b> Part night, dim 6 hrs <sup>15</sup> <b>PNMT7D3</b> Part night, dim 7 hrs <sup>15</sup> <b>FAO</b> Field adjustable output <sup>16</sup>	<b>Shipped installed</b> <b>HS</b> House-side shield <sup>17</sup> <b>SF</b> Single fuse (120, 277, 347V) <sup>5</sup> <b>DF</b> Double fuse (208, 240, 480V) <sup>5</sup> <b>L90</b> Left rotated optics <sup>1</sup> <b>R90</b> Right rotated optics <sup>1</sup> <b>DDL</b> Diffused drop lens <sup>17</sup> <b>Order separately</b> <b>BS</b> Bird spikes <b>EGS</b> External glare shield



# Ordering Information

## Accessories

Ordered and shipped separately.

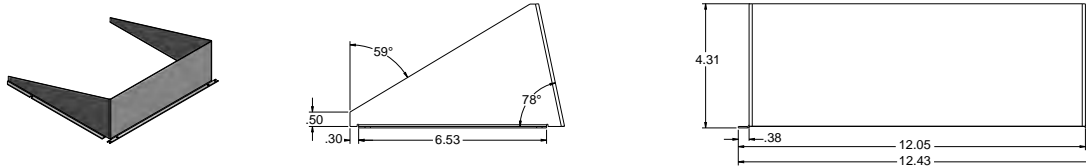
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>18</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>18</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>18</sup>
DSHORT SBK U	Shorting cap <sup>18</sup>
DSX0HS 20C U	House-side shield for 20 LED unit <sup>17</sup>
DSX0HS 30C U	House-side shield for 30 LED unit <sup>17</sup>
DSX0HS 40C U	House-side shield for 40 LED unit <sup>17</sup>
DSX0DDL U	Diffused drop lens (polycarbonate) <sup>17</sup>
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) <sup>19</sup>
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>2</sup>

For more control options, visit [DTL](#) and [ROAM](#) online.

## NOTES

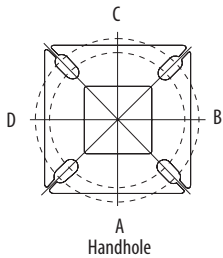
- P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
- AMBPC is not available with BLC, LCCO, RCCO, P4, P7 or P13.
- Not available with HS or DDL.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available in P4, P7 or P13. Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Reference Motion Sensor table on page 3.
- Reference PER Table on page 3 to see functionality.
- Requires (2) separately switched circuits.
- Not available with 347V, 480V or PNMT. For PER5 or PER7 see PER Table on page 3.
- Not available with 347V, 480V, BL30 and BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

## External Glare Shield



## Drilling

### HANDHOLE ORIENTATION



### Tenon Mounting Slipfitter\*\*

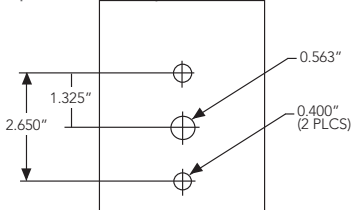
Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Pole drilling nomenclature: # of heads at degree from handhole (default side A)					
DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D

Note: Review luminaire spec sheet for specific nomenclature

Template #8

Top of Pole



Pole top or tenon O.D.	4.5" @ 90°	4" @ 90°	3.5" @ 90°	3" @ 90°	4.5" @ 120°	4" @ 120°	3.5" @ 120°	3" @ 120°
DSX SPA	Y	Y	Y	N	-	-	-	-
DSX RPA	Y	Y	N	N	Y	Y	Y	Y
DSX SPUMBA	Y	N	N	N	-	-	-	-
DSX RPUMBA	N	N	N	N	Y	Y	Y	N

\*3 fixtures @ 120 require round pole top/tenon.

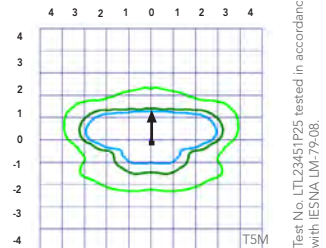
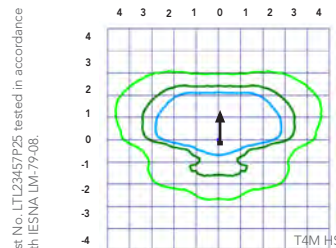
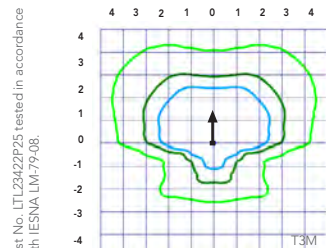
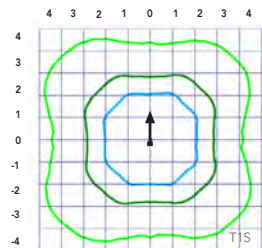
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's D-Series Area Size 0 homepage](#).

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

### LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc



## 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	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	0.99
35°C	95°F	0.98
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	25000	50000	100000
Lumen Maintenance Factor	0.96	0.92	0.85

### Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

### 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 with Inline Dusk to Dawn or timer.

### PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)	
		Wire 4/Wire5	Wire 4/Wire5	Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✓	⚠	⚠	⚠	⚠
ROAM	⊘	✓	⚠	⚠	⚠
ROAM with Motion (ROAM on/off only)	⊘	⚠	⚠	⚠	⚠
Future-proof*	⊘	⚠	✓	✓	⚠
Future-proof* with Motion	⊘	⚠	✓	✓	⚠

✓	Recommended
⊘	Will not work
⚠	Alternate

\*Future-proof means: Ability to change controls in the future.



# Performance Data

## 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.

Forward Optics																												
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
20	530	P1	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125	2,541	1	0	1	73				
				T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125	2,589	1	0	1	74				
				T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126	2,539	1	0	1	73				
				T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122	2,558	1	0	1	73				
				T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126	2,583	1	0	1	74				
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123	2,570	1	0	1	73				
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126	2,540	1	0	1	73				
				TSVS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131	2,650	1	0	0	76				
				TSS	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131	2,690	1	0	0	77				
				TSM	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130	2,658	2	0	0	76				
				TSW	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131	2,663	2	0	1	73				
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103									
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77									
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77									
				20	700	P2	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124	3,144	1	0	1	70
								T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124	3,203	1	0	1	71
T2M	5,593	1	0					1	114	6,025	1	0	1	123	6,102	1	0	1	125	3,141	1	0	1	70				
T3S	5,417	1	0					2	111	5,835	1	0	2	119	5,909	2	0	2	121	3,165	1	0	1	70				
T3M	5,580	1	0					2	114	6,011	1	0	2	123	6,087	1	0	2	124	3,196	1	0	1	71				
T4M	5,458	1	0					2	111	5,880	1	0	2	120	5,955	1	0	2	122	3,179	1	0	1	71				
TFTM	5,576	1	0					2	114	6,007	1	0	2	123	6,083	1	0	2	124	3,143	1	0	1	70				
TSVS	5,799	2	0					0	118	6,247	2	0	0	127	6,327	2	0	0	129	3,278	2	0	0	73				
TSS	5,804	2	0					0	118	6,252	2	0	0	128	6,332	2	0	1	129	3,328	2	0	0	74				
TSM	5,789	3	0					1	118	6,237	3	0	1	127	6,316	3	0	1	129	3,288	2	0	1	73				
TSW	5,834	3	0					2	119	6,285	3	0	2	128	6,364	3	0	2	130	3,295	2	0	1	73				
BLC	4,572	1	0					1	93	4,925	1	0	1	101	4,987	1	0	1	102									
LCCO	3,402	1	0					2	69	3,665	1	0	2	75	3,711	1	0	2	76									
RCCO	3,402	1	0					2	69	3,665	1	0	2	75	3,711	1	0	2	76									
20	1050	P3	71W					T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120					
								T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120					
				T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121									
				T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117									
				T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121									
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118									
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120									
				TSVS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125									
				TSS	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125									
				TSM	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125									
				TSW	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126									
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99									
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73									
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73									
				20	1400	P4	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116					
								T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116					
T2M	9,831	2	0					2	107	10,590	2	0	2	115	10,724	2	0	2	117									
T3S	9,521	2	0					2	103	10,256	2	0	2	111	10,386	2	0	2	113									
T3M	9,807	2	0					2	107	10,565	2	0	2	115	10,698	2	0	2	116									
T4M	9,594	2	0					2	104	10,335	2	0	3	112	10,466	2	0	3	114									
TFTM	9,801	2	0					2	107	10,558	2	0	2	115	10,692	2	0	2	116									
TSVS	10,193	3	0					1	111	10,981	3	0	1	119	11,120	3	0	1	121									
TSS	10,201	3	0					1	111	10,990	3	0	1	119	11,129	3	0	1	121									
TSM	10,176	4	0					2	111	10,962	4	0	2	119	11,101	4	0	2	121									
TSW	10,254	4	0					3	111	11,047	4	0	3	120	11,186	4	0	3	122									
BLC	8,036	1	0					2	87	8,656	1	0	2	94	8,766	1	0	2	95									
LCCO	5,979	1	0					2	65	6,441	1	0	2	70	6,523	1	0	3	71									
	5,979	1	0					2	65	6,441	1	0	2	70	6,523	1	0	3	71									

# Performance Data

## 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.

Forward Optics																								
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	700	P5	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133					
				T2S	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133					
				T2M	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133					
				T3S	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129					
				T3M	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133					
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130					
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133					
				TSVS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138					
				TSS	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138					
				TSM	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138					
				TSW	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139					
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109					
				LCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81					
				RCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81					
40	1050	P6	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121	6,206	2	0	2	68
				T2S	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120	6,322	2	0	2	69
				T2M	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121	6,201	2	0	2	68
				T3S	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117	6,247	1	0	2	69
				T3M	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121	6,308	2	0	2	69
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118	6,275	1	0	2	69
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121	6,203	1	0	2	68
				TSVS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125	6,671	2	0	0	73
				TSS	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126	6,569	2	0	0	72
				TSM	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125	6,491	3	0	1	71
				TSW	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126	6,504	3	0	2	71
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99					
				LCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74					
				RCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74					
40	1300	P7	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112					
				T2S	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112					
				T2M	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112					
				T3S	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109					
				T3M	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112					
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110					
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112					
				TSVS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116					
				TSS	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117					
				TSM	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116					
				TSW	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117					
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92					
				LCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68					
					10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68					

# Performance Data

## 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.

Rotated Optics																															
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)											
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW							
30	530	P10	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138												
				T2S	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138												
				T2M	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140												
				T3S	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136												
				T3M	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140												
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137												
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141												
				TSVS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142												
				TSS	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141												
				TSM	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141												
				TSW	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139												
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116												
				LCCO	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83												
				RCCO	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83												
				30	700	P11	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130								
								T2S	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129								
T2M	8,699	3	0					3	121	9,371	3	0	3	130	9,490	3	0	3	132												
T3S	8,412	3	0					3	117	9,062	3	0	3	126	9,177	3	0	3	127												
T3M	8,694	3	0					3	121	9,366	3	0	3	130	9,484	3	0	3	132												
T4M	8,530	3	0					3	118	9,189	3	0	3	128	9,305	3	0	3	129												
TFTM	8,750	3	0					3	122	9,427	3	0	3	131	9,546	3	0	3	133												
TSVS	8,812	3	0					0	122	9,493	3	0	0	132	9,613	3	0	0	134												
TSS	8,738	3	0					1	121	9,413	3	0	1	131	9,532	3	0	1	132												
TSM	8,736	3	0					2	121	9,411	3	0	2	131	9,530	3	0	2	132												
TSW	8,657	4	0					2	120	9,326	4	0	2	130	9,444	4	0	2	131												
BLC	7,187	3	0					3	100	7,742	3	0	3	108	7,840	3	0	3	109												
LCCO	5,133	1	0					2	71	5,529	1	0	2	77	5,599	1	0	2	78												
RCCO	5,126	3	0					3	71	5,522	3	0	3	77	5,592	3	0	3	78												
30	1050	P12	104W					T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127								
								T2S	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127								
				T2M	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129												
				T3S	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125												
				T3M	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129												
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126												
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130												
				TSVS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131												
				TSS	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130												
				TSM	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130												
				TSW	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128												
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107												
				LCCO	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76												
				RCCO	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76												
				30	1300	P13	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123								
								T2S	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122								
T2M	14,614	3	0					3	114	15,744	4	0	4	123	15,943	4	0	4	125												
T3S	14,132	4	0					4	110	15,224	4	0	4	119	15,417	4	0	4	120												
T3M	14,606	4	0					4	114	15,735	4	0	4	123	15,934	4	0	4	124												
T4M	14,330	4	0					4	112	15,438	4	0	4	121	15,633	4	0	4	122												
TFTM	14,701	4	0					4	115	15,836	4	0	4	124	16,037	4	0	4	125												
TSVS	14,804	4	0					1	116	15,948	4	0	1	125	16,150	4	0	1	126												
TSS	14,679	3	0					1	115	15,814	3	0	1	124	16,014	3	0	1	125												
TSM	14,676	4	0					2	115	15,810	4	0	2	124	16,010	4	0	2	125												
TSW	14,544	4	0					3	114	15,668	4	0	3	122	15,866	4	0	3	124												
BLC	7919	3	0					3	62	8531	3	0	3	67	8639	3	0	3	67												
LCCO	5145	1	0					2	40	5543	1	0	2	43	5613	1	0	2	44												
	5139	3	0					3	40	5536	3	0	3	43	5606	3	0	3	44												

---

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

### CONSTRUCTION

Single-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 and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft<sup>2</sup>) for optimized pole wind loading.

### 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 both textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 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(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of

100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

### LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

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](http://www.designlights.org/QPL) to confirm which versions are qualified.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

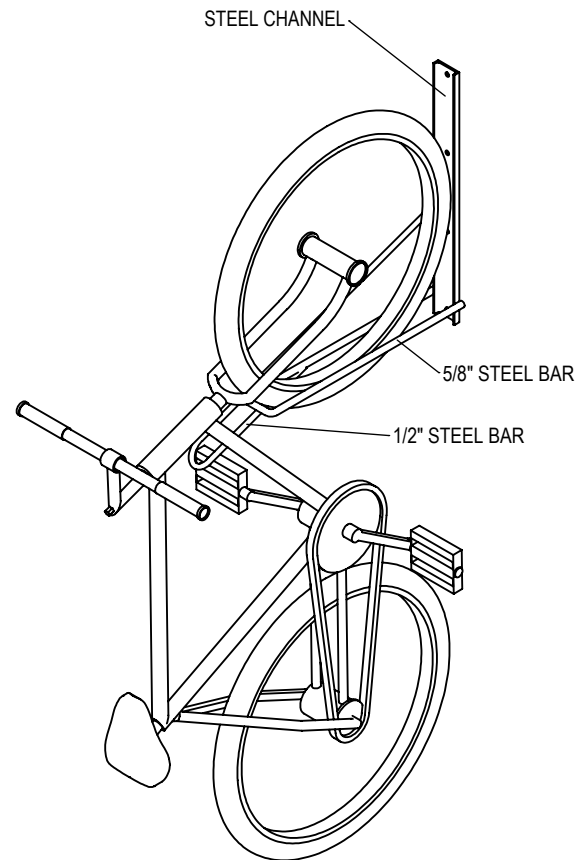
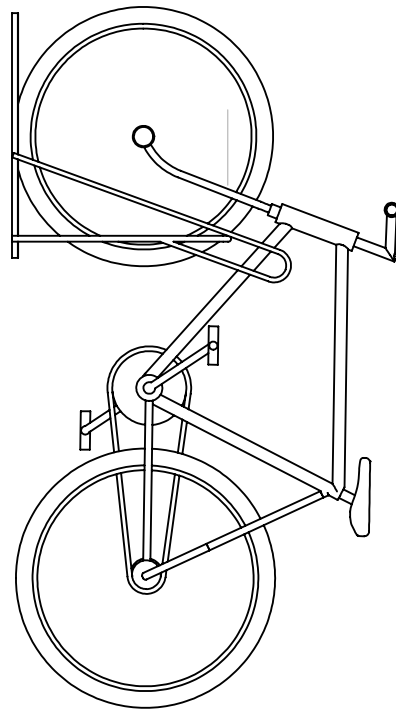
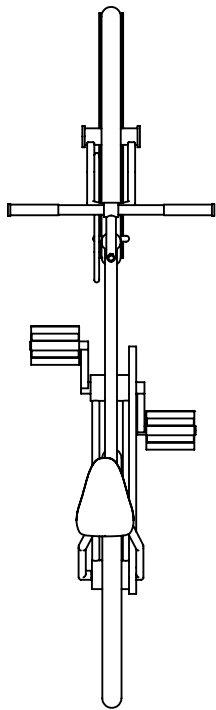
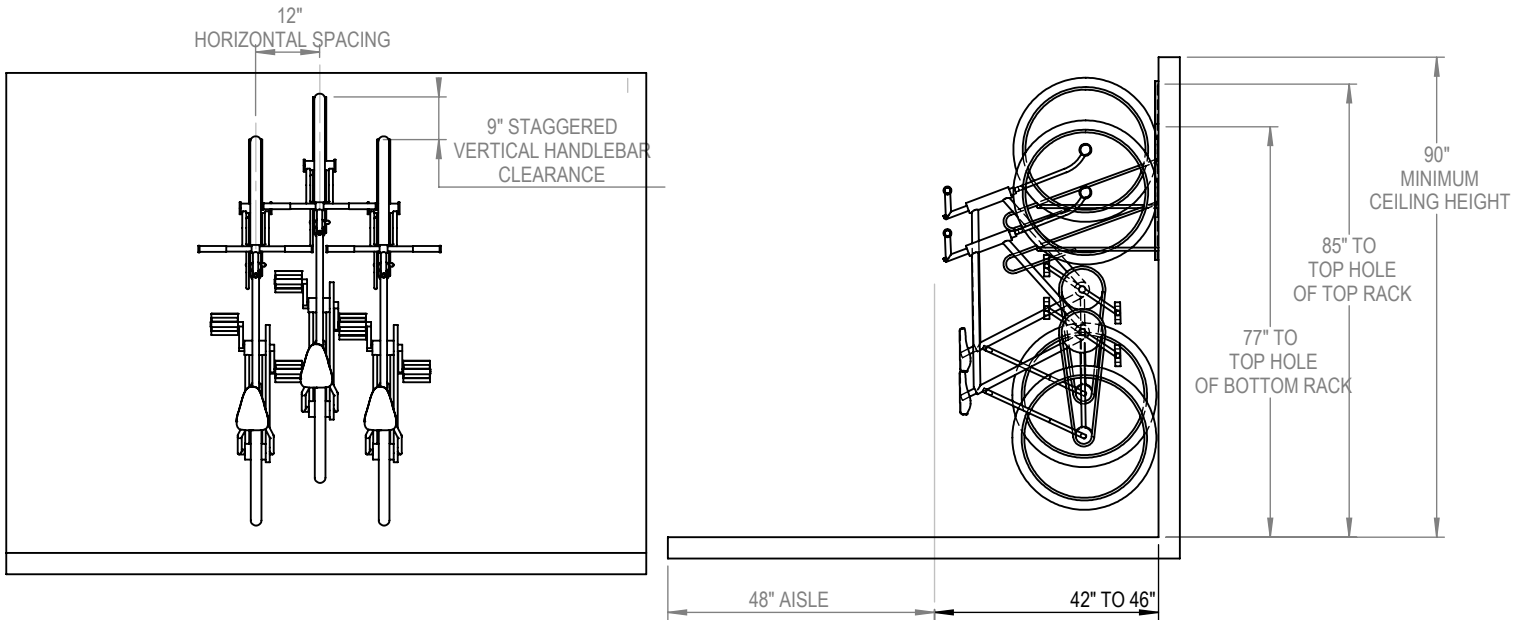
**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





5535 University Avenue

TRILARY, INC.  
 1080 UNIEK DRIVE  
 WAUNAKEE, WI 53597  
 P(800) 448-7931, P(608) 849-1080, F(608) 849-1081  
 WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM



PRODUCT: BSV-1-WM  
 DESCRIPTION: BIKE STORAGE VERTICAL, 1 BIKE, WALL MOUNT

DATE: 8-7-09  
 ENG: BLW

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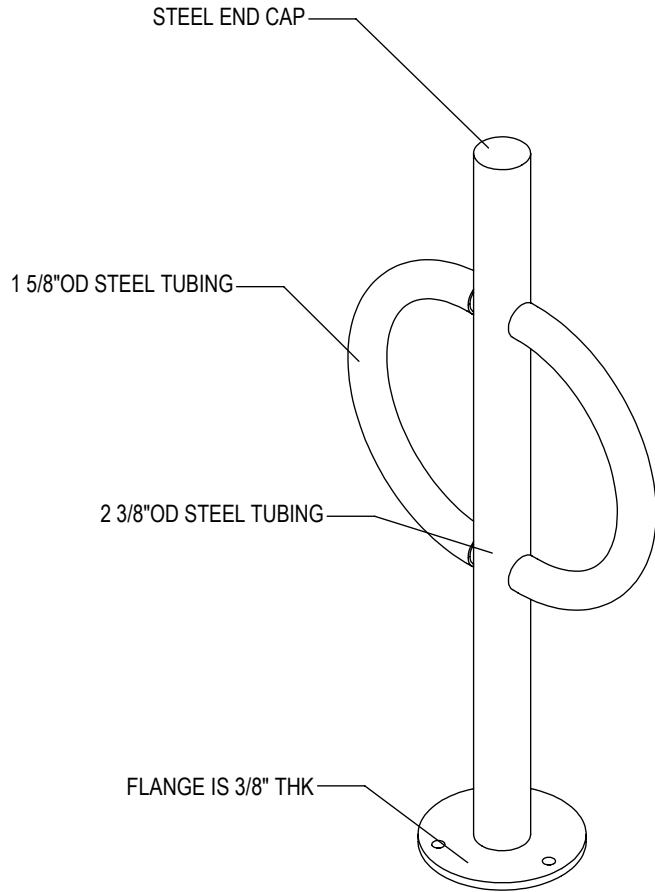
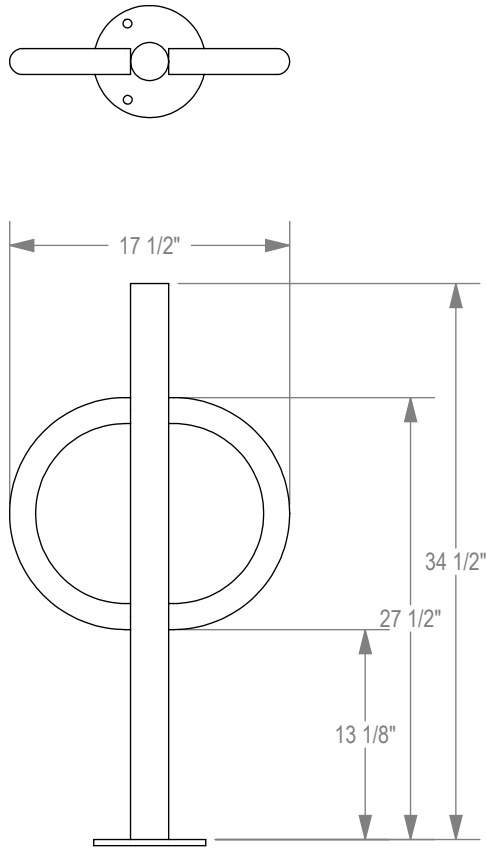
NOTES:

1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. CONSULTANT TO SELECT COLOR(FINISH), SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

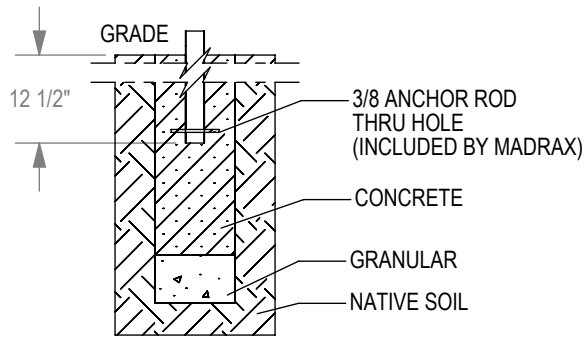


5535 University Avenue

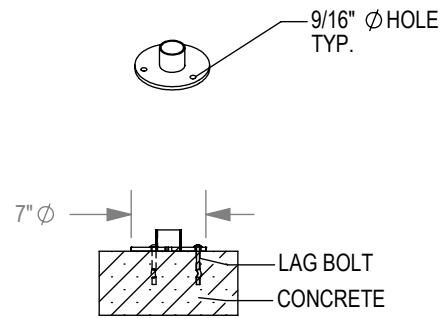
MADRAX DIVISION  
GRABER MANUFACTURING, INC., FORMERLY TRILARY, INC.  
1080 UNIEK DRIVE  
WAUNAKEE, WI 53597  
P(800) 448-7931, P(608) 849-1080, F(608) 849-1081  
WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM



CHECK DESIRED MOUNT



IN GROUND MOUNT (IG)



SURFACE FLANGE MOUNT (SF)

SECTION VIEWS

PRODUCT: BOL-2-SF(IG)  
DESCRIPTION: BOLLARD BIKE RACK WITH FLAT CAP, TUBE STEEL ARMS  
2 BIKE, SURFACE OR IN GROUND MOUNT

DATE: 8-20-12  
ENG: SMC

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NOTES:  
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.  
2. CONSULTANT TO SELECT COLOR(FINISH), SEE MANUFACTURER'S SPECIFICATIONS.  
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.





Demo Photos  
5533 University Ave.  
October 10, 2017





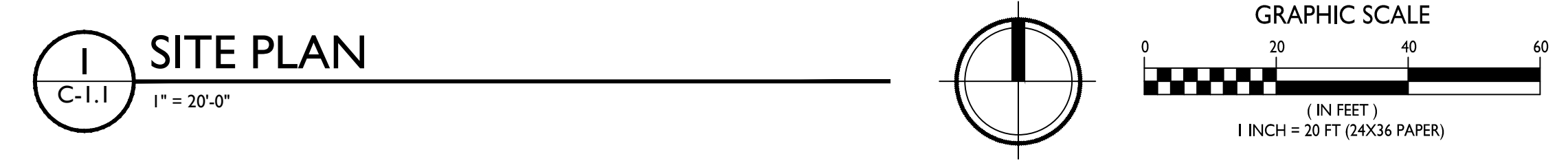
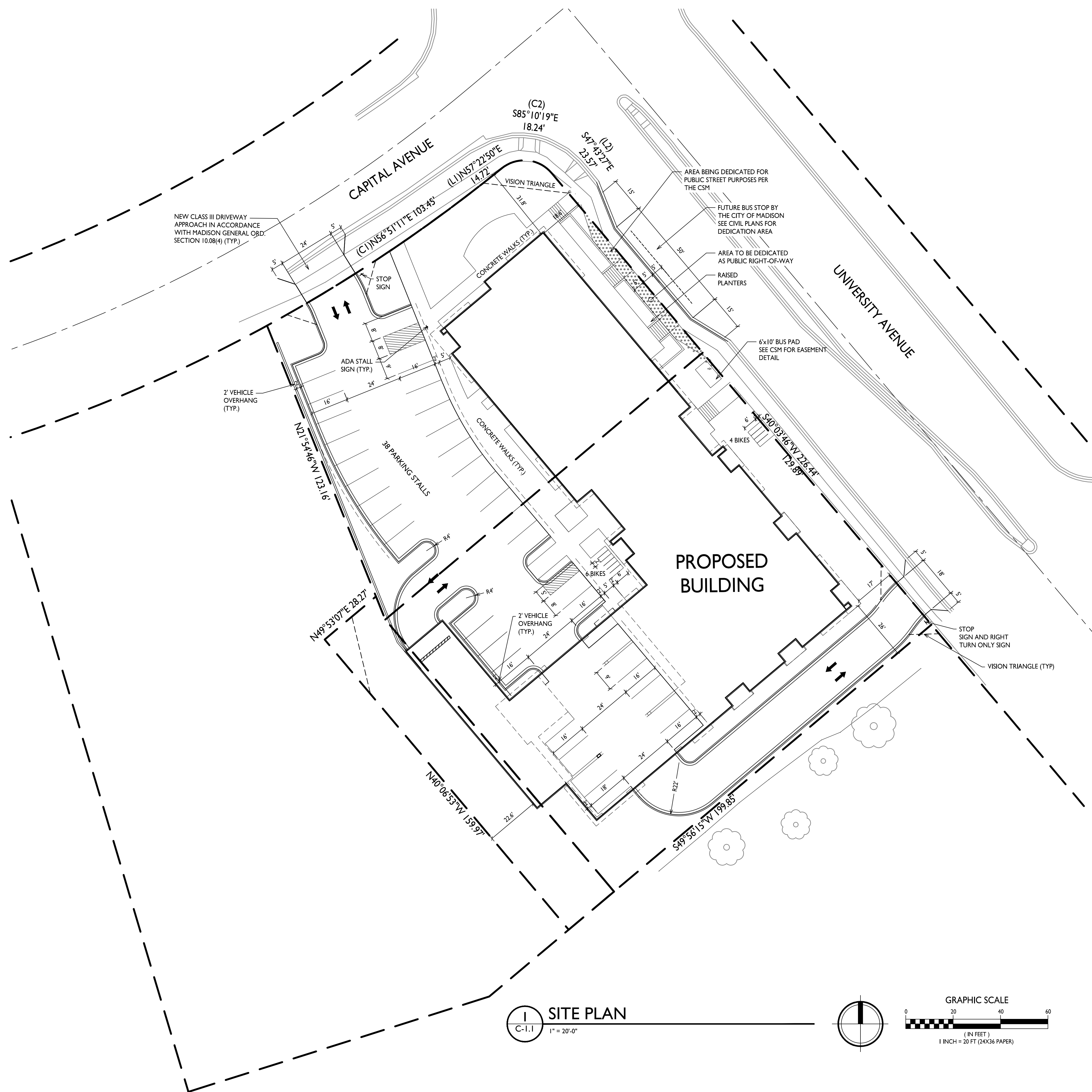
**SHEET INDEX**

<b>SITE</b>	
C-1.1	SITE PLAN
C-1.2	SITE LIGHTING PLAN
C-1.3	FIRE DEPARTMENT ACCESS PLAN
C-1.4	LOT COVERAGE
C-1.5	USABLE OPEN SPACE
<b>EXISTING CONDITIONS/DEMO PLAN</b>	
C-2.1	EXISTING CONDITIONS/DEMO PLAN
<b>SITE PLAN</b>	
C-2.2	SITE PLAN
C-3.0	GRADING & EROSION CONTROL PLAN
C-4.0	UTILITY PLAN
C-5.0	EROSION DETAILS
C-5.1	SITE DETAILS
C-5.2	UTILITY DETAILS
C-5.3	UTILITY DETAILS
<b>LANDSCAPE PLAN</b>	
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<b>ARCHITECTURAL</b>	
A-1.0	BASEMENT PLAN
A-1.1	FIRST FLOOR PLAN
A-1.2	SECOND FLOOR PLAN
A-1.3	THIRD FLOOR PLAN
A-1.4	FOURTH FLOOR PLAN
<b>ELEVATIONS</b>	
A-2.1	ELEVATIONS
A-2.2	ELEVATIONS
A-5.1	TYPICAL UNIT PLANS

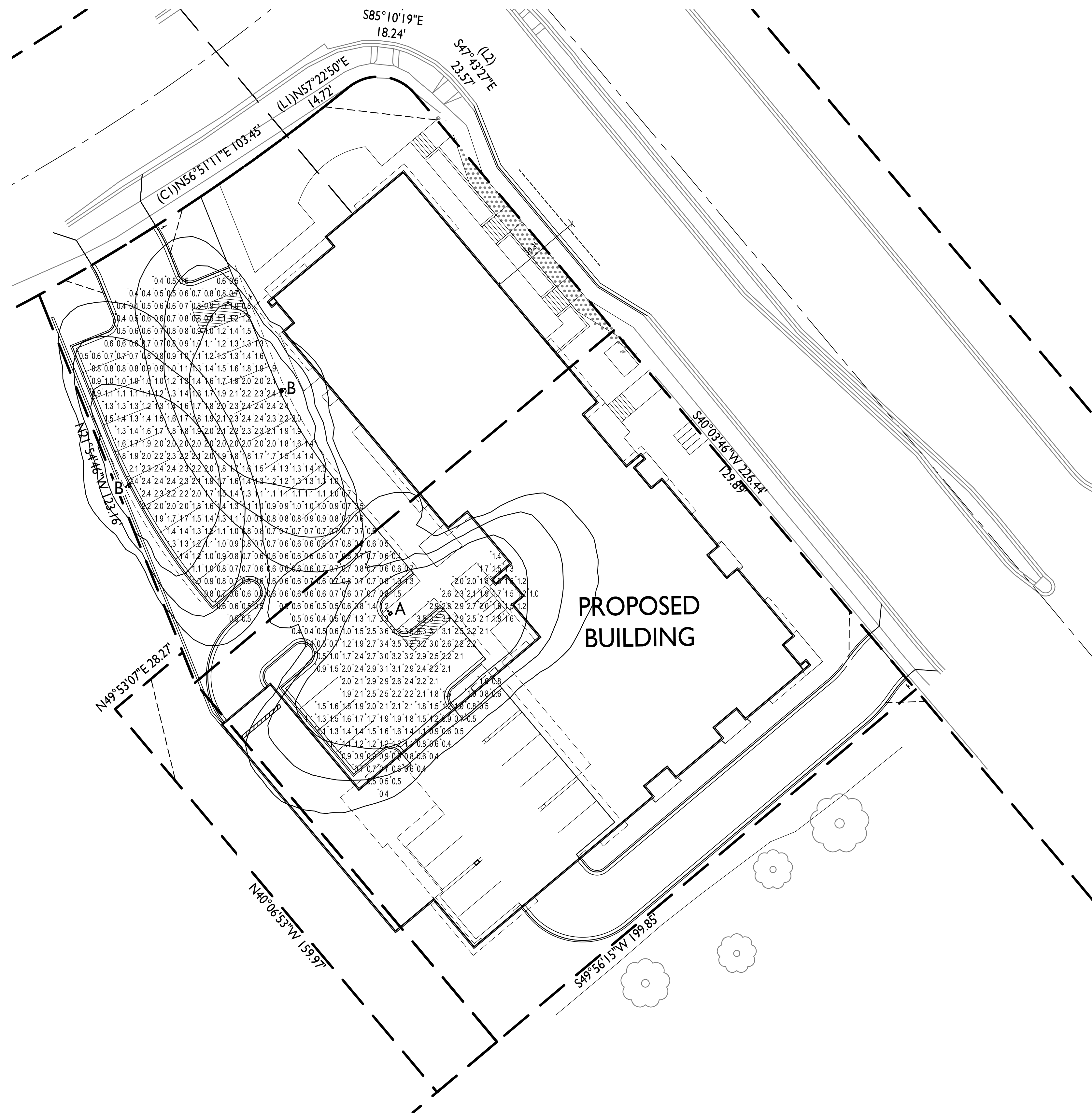
**SITE DEVELOPMENT DATA:**

<b>DENSITIES:</b>	
LOT AREA	48,517 SF / 1.1 ACRES
DWELLING UNITS	60 DU
LOT AREA / D.U.	808 SF / UNIT
DENSITY	54 UNITS/ACRE
GROSS COMMERCIAL AREA	APPROX. 5,617 SF (44% OF FIRST FLR)
NON-RESIDENTIAL AREA	
(INCL. 1ST FLOOR PARKING)	9,322 SF
BUILDING HEIGHT	4 STORIES
LOT COVERAGE	35,772 S.F. = 73.7%
USABLE OPEN SPACE	9,615 S.F. (160 SF / D.U.)
<b>DWELLING UNIT MIX:</b>	
EFFICIENCY	18
ONE BEDROOM	29
ONE BEDROOM + DEN	1
TWO BEDROOM	12
TOTAL DWELLING UNITS	60
<b>VEHICLE PARKING:</b>	
SURFACE	38 STALLS
UNDERGROUND/ COVERED	50 STALLS
TOTAL	88 STALLS
<b>BICYCLE PARKING:</b>	
SURFACE COMMERCIAL	4 STALLS
SURFACE GUEST	6 STALLS (10% OF UNITS)
UNDERGROUND GARAGE - WALL	15 STALLS (COVERED)
UNDERGROUND/SURFACE GARAGE STD. 2'X6'	45 STALLS (COVERED)
TOTAL	70 STALLS

- GENERAL NOTES:**
- THE APPLICANT SHALL REPLACE ALL SIDEWALK AND CURB AND GUTTER WHICH ABUTS THE PROPERTY WHICH IS DAMAGED BY THE CONSTRUCTION OR ANY SIDEWALK AND CURB AND GUTTER WHICH THE CITY ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE REGARDLESS OF WHETHER THE CONDITION EXISTED PRIOR TO BEGINNING CONSTRUCTION.
  - ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CITY LICENSED CONTRACTOR.
  - ALL DAMAGE TO THE PAVEMENT, ADJACENT TO THIS DEVELOPMENT SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PAVEMENT PATCHING CRITERIA.
  - APPROVAL OF PLANS FOR THIS PROJECT DOES NOT INCLUDE ANY APPROVAL TO PRUNE, REMOVE, OR PLANT TREES IN THE PUBLIC RIGHT-OF-WAY. PERMISSION FOR SUCH ACTIVITIES MUST BE OBTAINED FROM THE CITY FORESTER, 266-4816.
  - EASEMENT LINES SHOWN ON THIS SHEET ARE FOR GENERAL REFERENCE ONLY - SEE CSM AND CIVIL SHEETS FOR ADDITIONAL AND MORE COMPLETE EASEMENT INFORMATION.
  - CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING IN THE AREA BETWEEN THE CURB AND SIDEWALK AND EXTEND IT AT LEAST 5 FEET FROM BOTH SIDES OF THE TREE ALONG THE LENGTH OF THE TERRACE. NO EXCAVATION IS PERMITTED WITHIN 5 FEET OF THE OUTSIDE EDGE OF THE TREE TRUNK. IF EXCAVATION WITHIN 5 FEET OF ANY TREE IS NECESSARY, CONTRACTOR SHALL CONTACT CITY FORESTRY (266-4816) PRIOR TO EXCAVATION TO ASSESS THE IMPACT TO THE TREE AND ROOT SYSTEM. TREE PRUNING SHALL BE COORDINATED WITH CITY FORESTRY PRIOR TO THE START OF CONSTRUCTION. TREE PROTECTION SPECIFICATIONS CAN BE FOUND IN SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. ANY TREE REMOVALS THAT ARE REQUIRED FOR CONSTRUCTION AFTER THE DEVELOPMENT PLAN IS APPROVED WILL REQUIRE AT LEAST A 72-HOUR WAIT PERIOD BEFORE A TREE REMOVAL PERMIT CAN BE ISSUED BY FORESTRY, TO NOTIFY THE ALDER OF THE CHANGE IN THE TREE PLAN.
  - THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION PLAN OF TRAFFIC ENGINEERING AND CITY ENGINEERING DEPARTMENTS.

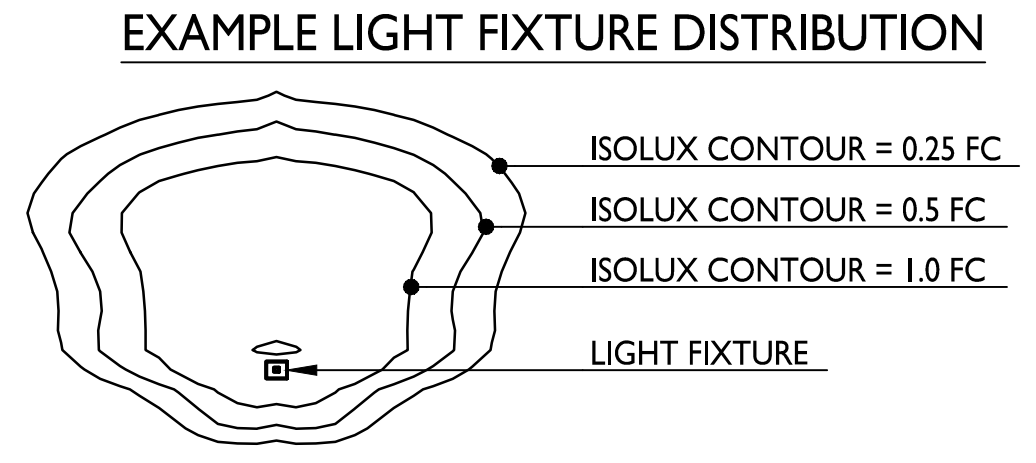




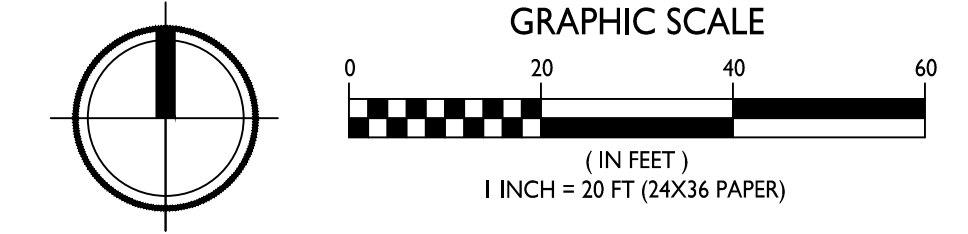


STATISTICS						
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
Calculation Zone	+	1.4 fc	4.3 fc	0.4 fc	10.8:1	3.5:1

LUMINAIRE SCHEDULE							
SYMBOL	LABEL	QTY	MANUF.	CATALOG	DESCRIPTION	FILE	MOUNTING
□	A	1	LITHONIA LIGHTING	DSX0 LED P4 30K T3M MVOLT	DSX0 LED P4 30K T3M MVOLT	DSX0_LED_P4_30K_T3M_MVOLT.ies	18'-0" POLE ON FLUSH CONC. BASE
□	B	2	LITHONIA LIGHTING	DSX0 LED P2 40K T2M MVOLT HS	DSX0 LED P2 40K T2M MVOLT WITH HOUSE-SIDE SHIELD	DSX0_LED_P2_40K_T2M_MVOLT_HS.ies	16'-0" POLE ON 2'-0" TALL CONC. BASE



**1 SITE LIGHTING PLAN**  
 C-1.2 1" = 20'-0"





knothe-bruce  
ARCHITECTS

Phone: 7601 University Ave, Ste 201  
608.836.3690 Middleton, WI 53562

ISSUED  
Issued for Land Use & UDC - September 5, 2018

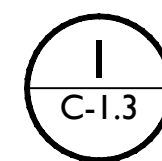
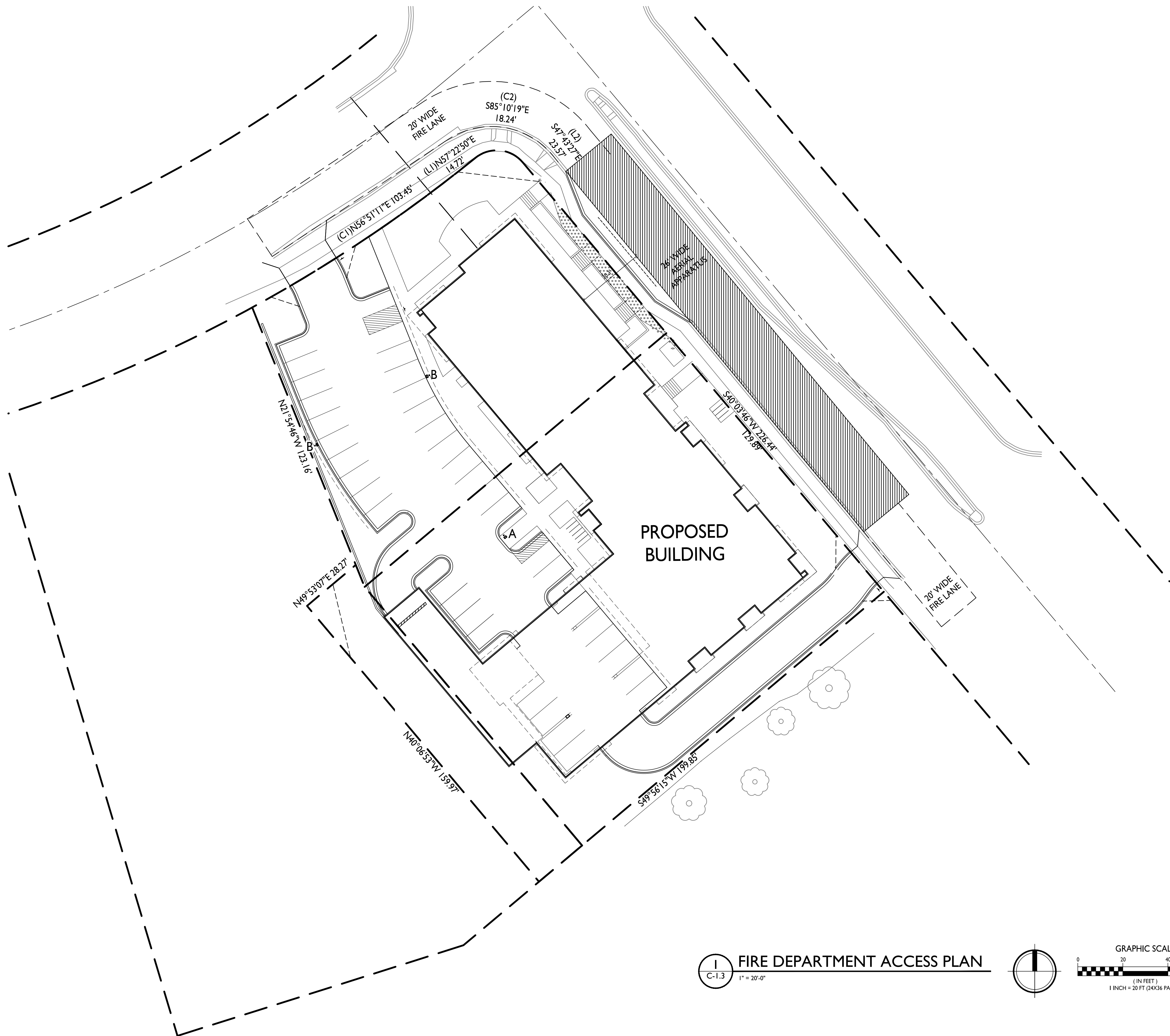
PROJECT TITLE  
Mixed-Use  
Development

5535 University Ave.  
Madison, WI  
SHEET TITLE  
Fire Department  
Access Plan

SHEET NUMBER

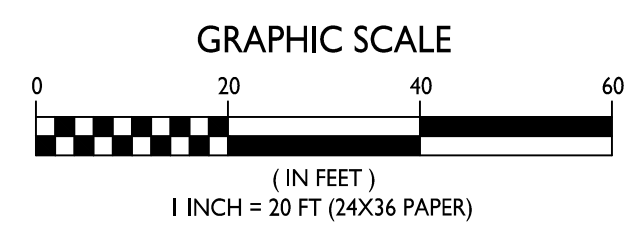
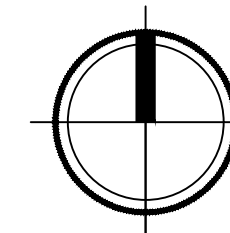
C-1.3

PROJECT NO. 1735  
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FIRE DEPARTMENT ACCESS PLAN

1" = 20'-0"





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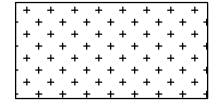
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Development

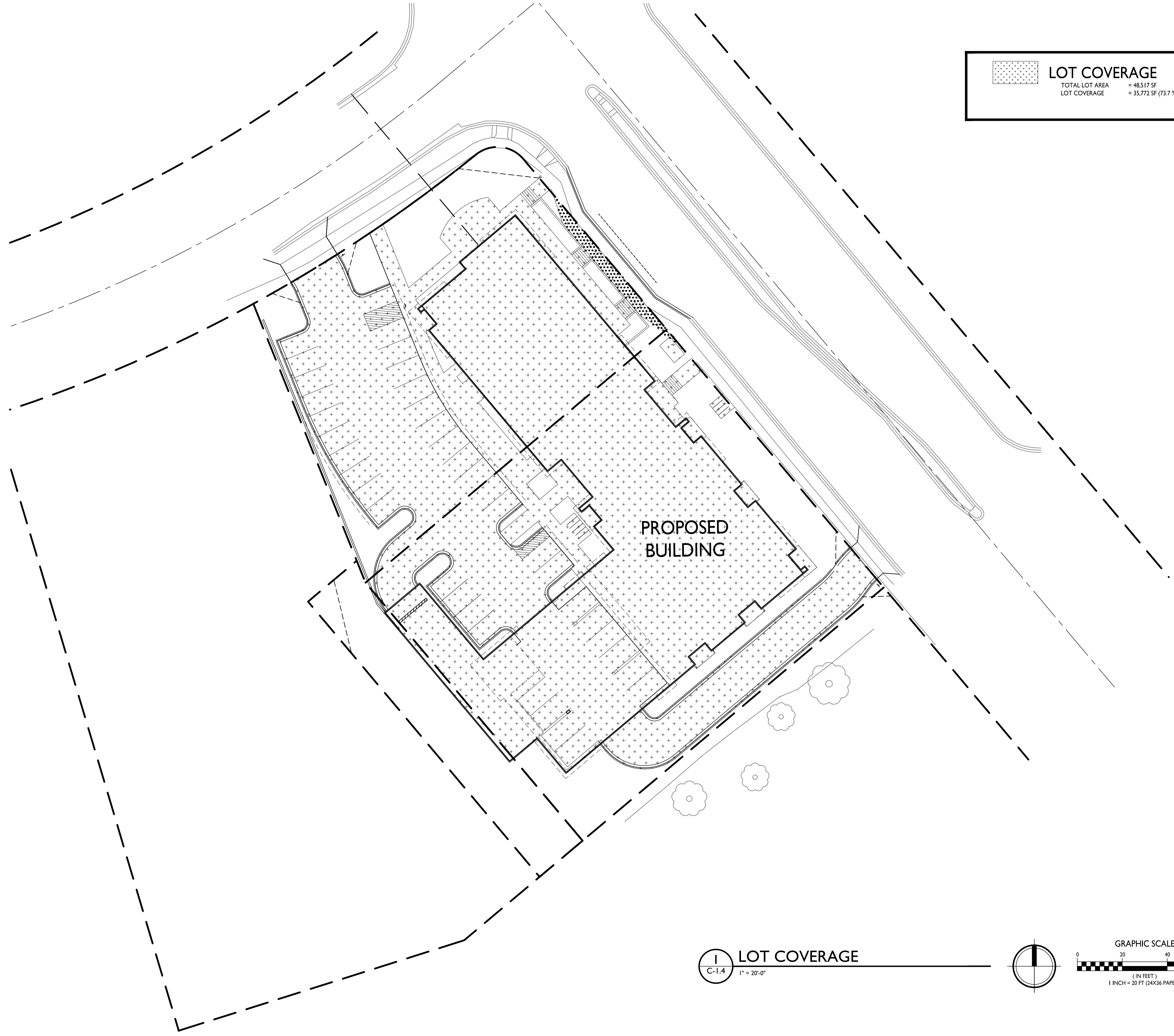
5535 University Ave.  
Madison, WI  
SHEET TITLE  
Lot Coverage

SHEET NUMBER

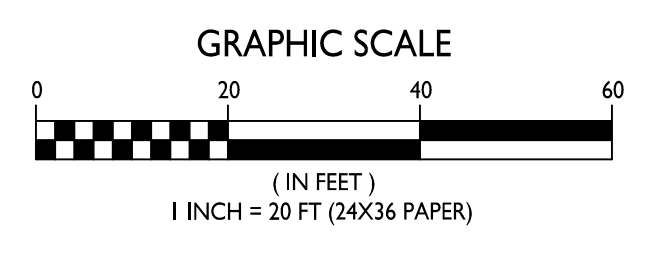
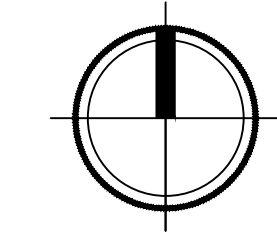
**C-1.4**

PROJECT NO. 1735  
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	<b>LOT COVERAGE</b>
	TOTAL LOT AREA = 48,517 SF
	LOT COVERAGE = 35,772 SF (73.7%)



**LOT COVERAGE**  
C-1.4 1" = 20'-0"







knothe bruce  
ARCHITECTS

Phone: 7601 University Ave, Ste 201  
608.836.3690 Middleton, WI 53562

ISSUED  
Issued for Land Use & UDC - September 5, 2018

PROJECT TITLE  
Mixed-Use  
Development

5535 University Ave.  
Madison, WI  
SHEET TITLE  
Usable Open  
Space

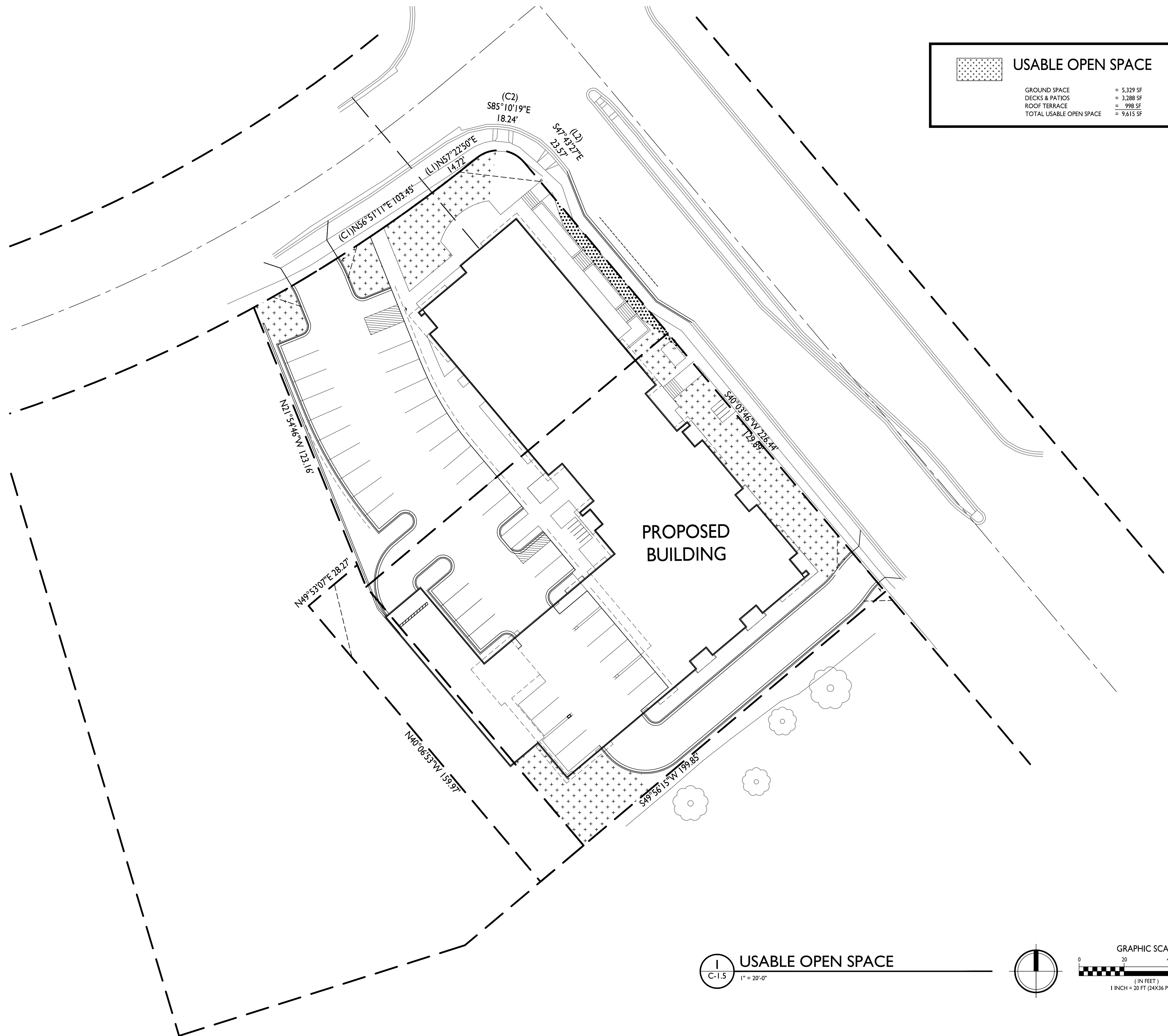
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C-1.5

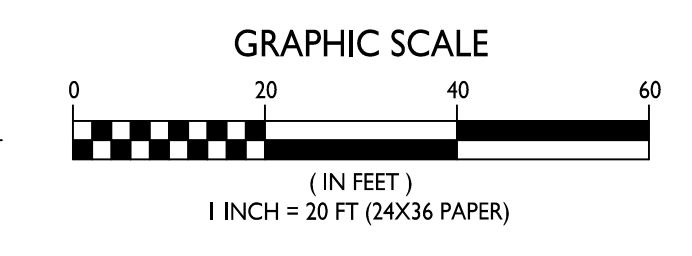
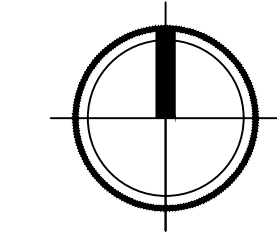
PROJECT NO. 1735

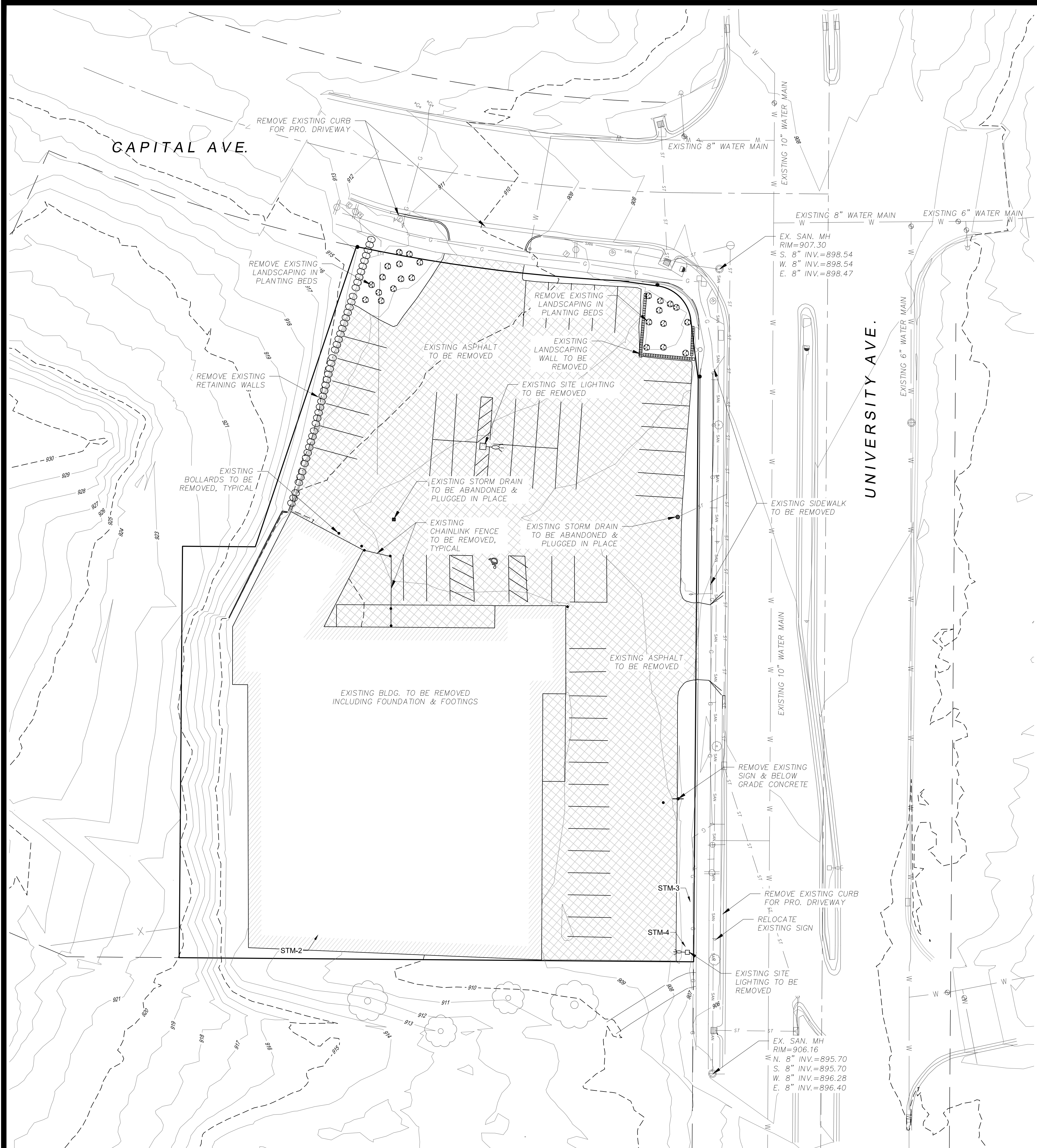
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USABLE OPEN SPACE	
GROUND SPACE	= 5,329 SF
DECKS & PATIOS	= 3,288 SF
ROOF TERRACE	= 998 SF
<b>TOTAL USABLE OPEN SPACE</b>	<b>= 9,615 SF</b>



1  
C-1.5  
1" = 20'-0"





**GENERAL CONDITIONS**

1. THE CONTRACTOR SHALL NOTIFY THE OWNER TWO WORKING DAYS (48 HOURS) PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC, FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
3. SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS.
6. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL CONDUCT HIS WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
7. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGER'S HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF HIS INTENTIONS, AND TO REQUEST FIELD LOCATING OF EXISTING UTILITIES.
8. CONTRACTOR IS ADVISED THAT ALL MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES.
9. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR. THE COST OF THE RESTORATION IS CONSIDERED INCIDENTAL, AND SHOULD BE INCLUDED IN THE BID PRICES.
10. REMOVE SIDEWALKS TO THE NEAREST JOINT.
11. SAW CUTS SHALL BE FULL DEPTH PRIOR TO REMOVAL.

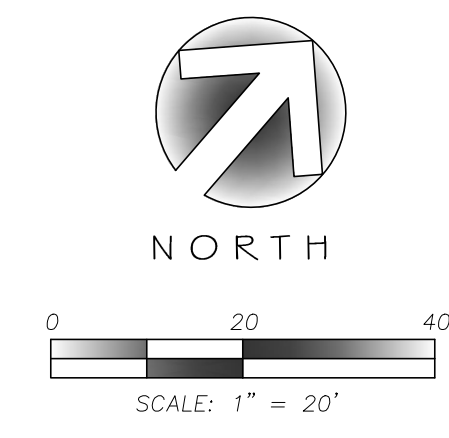
**LEGEND**



CERTAIN UNDERGROUND UTILITIES HAVE BEEN LOCATED ON THE PLANS. THESE LOCATIONS SHALL NOT BE TAKEN AS CONCLUSIVE. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER SHOWN ON THE DRAWING OR NOT, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT.

**EXISTING SITE / DEMO PLAN**

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
**CALL DIGGER'S HOTLINE**  
**1-800-242-8511**  
**TOLL FREE**  
WS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



CITY COMMENTS DATED: 1/9/18 2/6/18/BCA

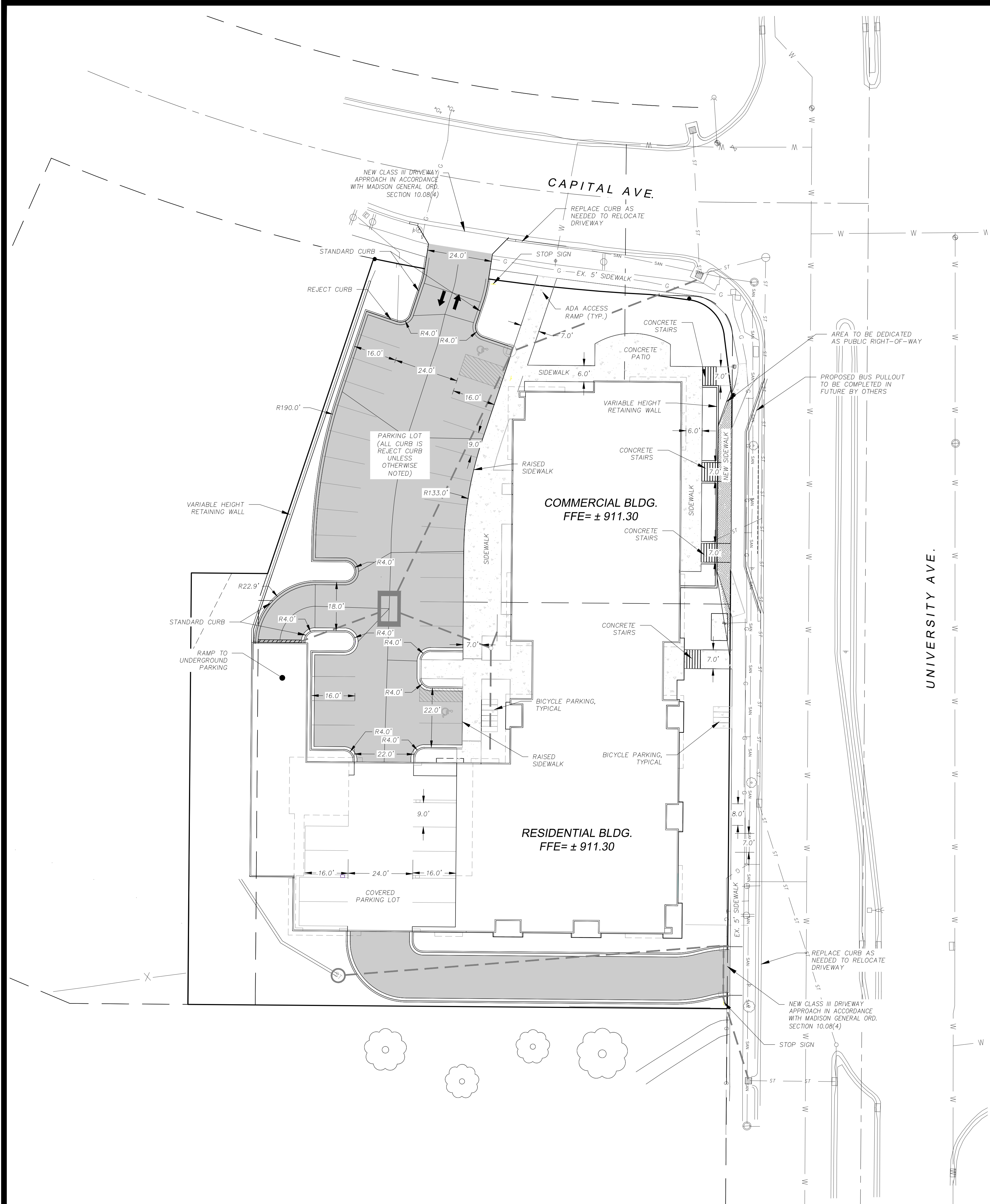
**5535 UNIVERSITY AVENUE**  
**EXISTING SITE / DEMO PLAN**  
**CITY OF MADISON, WI**  
**SNYDER & ASSOCIATES, INC.**  
5010 VOGES ROAD  
MADISON, WISCONSIN 53718  
608-838-0444 | www.snyder-associates.com

**SNYDER & ASSOCIATES**  
 Project No: 117.0784.30  
 C.2.1

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 2/6/18/BCA



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**LEGEND**

	ASPHALT
	CONCRETE

- NOTES**
1. CONTRACTOR SHALL REPLACE ALL SIDEWALK AND CURB AND GUTTER WHICH ABUTS THE PROPERTY WHICH IS DAMAGED BY THE CONSTRUCTION OF ANY SIDEWALK AND CURB AND GUTTER WHICH THE CITY ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE REGARDLESS OF WHETHER THE CONDITION EXISTED PRIOR TO BEGINNING CONSTRUCTION.
  2. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CITY LICENSED CONTRACTOR.
  3. ALL DAMAGE TO THE PAVEMENT ON UNIVERSITY AVENUE AND CAPITOL DRIVE, ADJACENT TO THIS DEVELOPMENT SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PAVEMENT PATCHING CRITERIA.
  4. THE CONTRACTOR SHALL CLOSE ALL ABANDONED DRIVEWAYS BY REPLACING THE CURB IN FRONT OF THE DRIVEWAYS AND RESTORING THE TERRACE WITH GRASS.

**SITE PLAN**

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
**CALL DIGGERS HOTLINE**  
**1-800-242-8511**  
**TOLL FREE**  
 WS. STATUTE 182.0175 (1974).  
 REQUIRES MIN. OF 3 WORK DAYS  
 NOTICE BEFORE YOU EXCAVATE.

**NORTH**

0 20 40  
 SCALE: 1" = 20'

CITY COMMENTS DATED 1/9/18		2/16/18	BCA
UPDATED SITE LAYOUT		7/16/18	BCA
MARK	REVISION	DATE	BY
Engineer: MLC	Checked By: BCA/LAO	Scale: NOTED	
Technician: MW	Date: 12-6-2017	Field Bk:	Pg:

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**5535 UNIVERSITY AVENUE**

**SITE PLAN**

**CITY OF MADISON, WI**

**SNYDER & ASSOCIATES, INC.**

5010 VOGES ROAD  
 MADISON, WISCONSIN 53718  
 608-838-0444 | www.snyder-associates.com

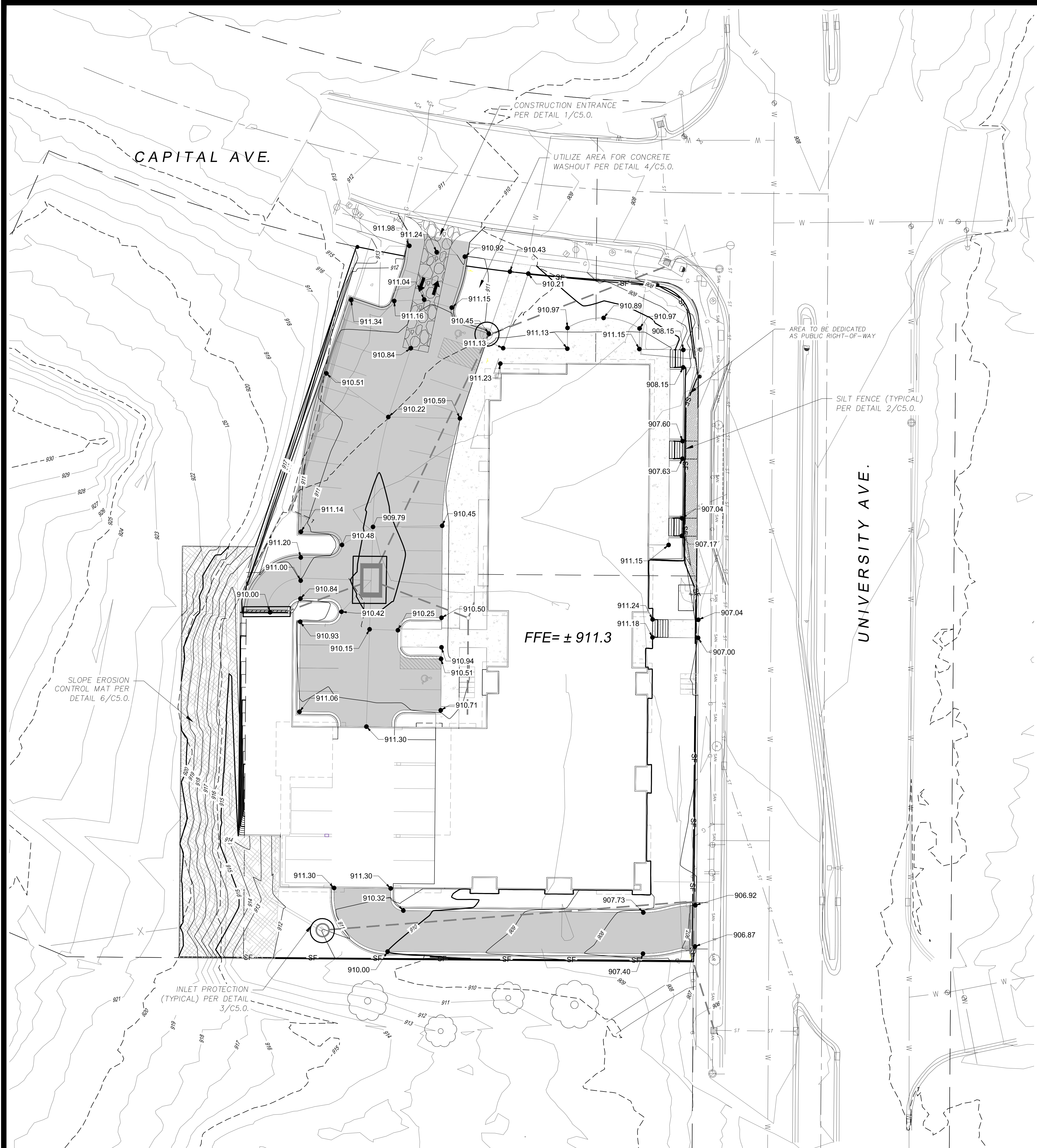
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**SNYDER & ASSOCIATES**

Project No: 117.0784.30

**C.2.2**








**EROSION CONTROL**

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS, INCLUDING WPDES DISCHARGE PERMITS (IF APPLICABLE). CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
2. ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARD.
3. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD.
4. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
5. ALL DISTURBED GROUND LEFT INACTIVE FOR THIRTY DAYS OR MORE SHALL BE STABILIZED WITH TOPSOIL, SEED, AND MULCH IN ACCORDANCE WITH THE WDNR TECHNICAL STANDARDS 1059 AND 1058.
6. DISTURBED AREAS THAT CANNOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION BY SEEDING AND MULCHING DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION, SHALL BE STABILIZED BY APPLYING EROSION MAT IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1050.
7. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE AND DITCH CHECKS WHEN IT REACHES HALF THE HEIGHT OF THE FENCE/BALE THE SILT FENCE AND DITCH CHECKS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
8. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING ON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL TEMPORARY SEDIMENT TRAPS IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT. TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.
9. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING, NOT FLUSHING, BEFORE THE END OF EACH WORKING DAY.
10. DUST CONTROL SHALL BE PROVIDED AS NECESSARY IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
11. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES.
12. REFER TO SPECIFICATION SECTIONS 31 20 00, 31 25 00, 32 91 19, AND 32 92 00.

**GRADING**

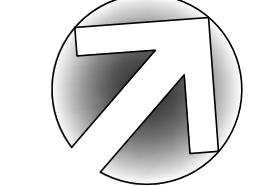
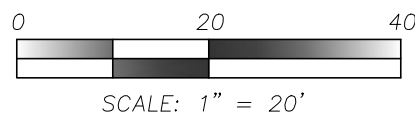
1. THE CONTRACTOR SHALL MAINTAIN SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE THE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVIATE WATER PONDING.
2. SILT FENCE AND OTHER EROSION CONTROL FACILITIES MUST BE INSTALLED PRIOR TO CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE SITE HAS BEEN STABILIZED WITH VEGETATION AND THE APPROVAL OF THE GOVERNING AGENCY.
3. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL GRADING, CUT AND FILL CALCULATIONS AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.
4. GRADING SHALL CONSIST OF CLEARING AND GRUBBING EXISTING VEGETATION, STRIPPING TOPSOIL, REMOVAL OF EXISTING PAVEMENT OR FOUNDATIONS, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE AND ON-SITE EARTHWORK BALANCE, GRADING THE BUILDING PADS AND PAVEMENT AREAS, SCARIFYING AND FINAL COMPACTION OF THE PAVEMENT SUBGRADE, AND PLACEMENT OF TOPSOIL.
5. NO FILL SHALL BE PLACED ON A WET OR SOFT SUBGRADE THE SUBGRADE SHALL BE PROOF-ROLLED AND INSPECTED BY THE ENGINEER BEFORE ANY MATERIAL IS PLACED.
6. REFER TO SPECIFICATION SECTIONS 31 20 00, 31 25 00, 32 91 19, AND 32 92 00.

**LEGEND**

-  ASPHALT
-  CONCRETE
-  PROJECT GRADING LIMITS

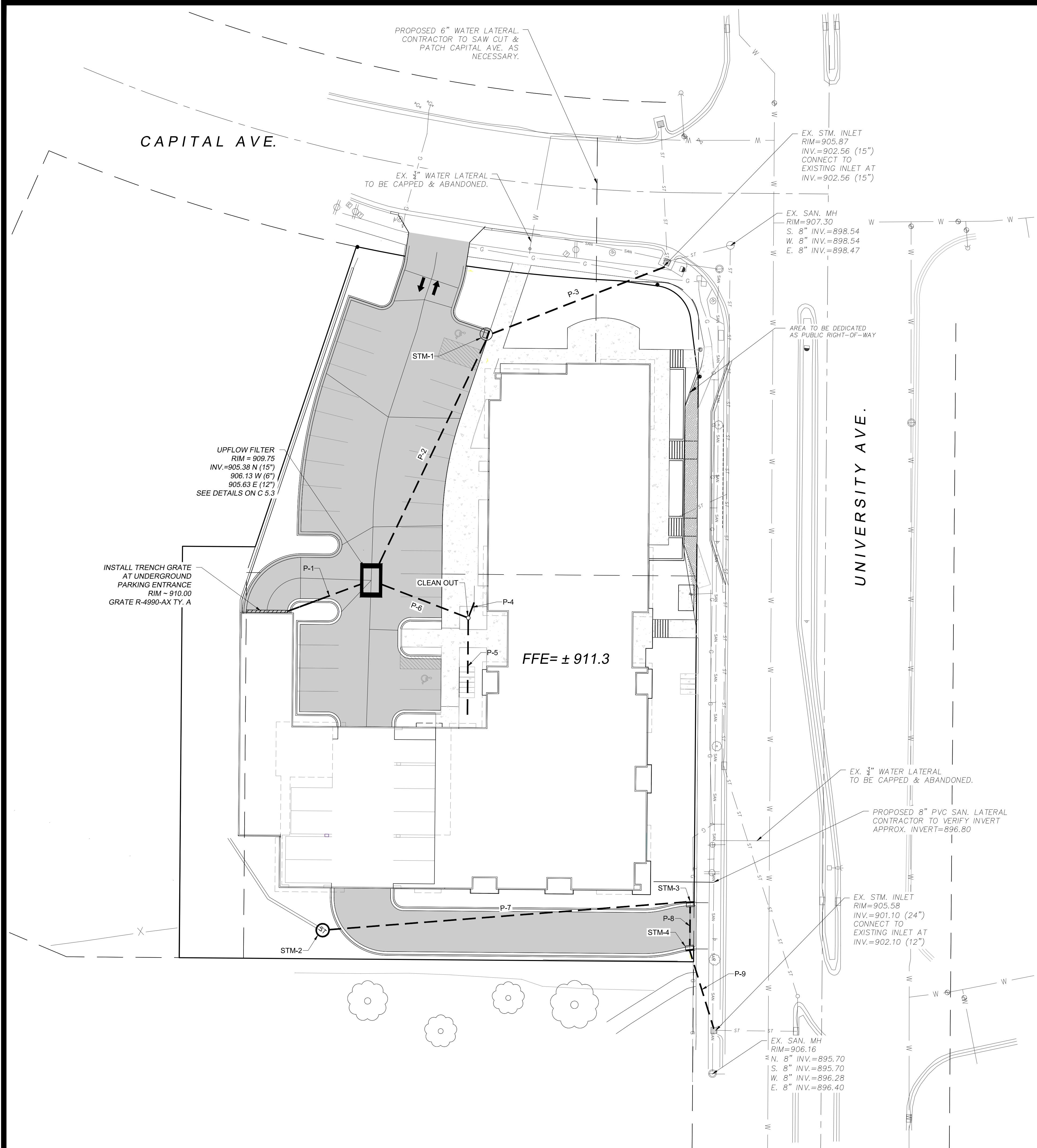
**GRADING / EROSION CONTROL PLAN**


 TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
**CALL DIGGERS HOTLINE**  
**1-800-242-8511**  
**TOLL FREE**  
WS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

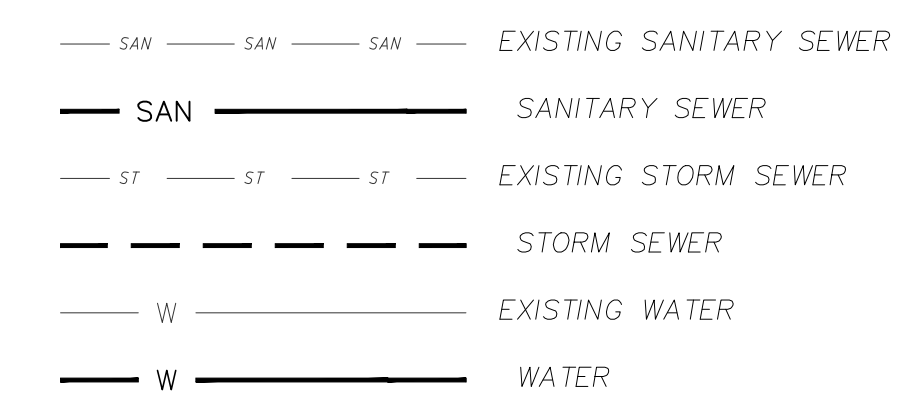
 NORTH  
 SCALE: 1" = 20'

CITY COMMENTS DATED: 1/9/18 ARCHITECT COMMENTS: 3/29/18 CITY COMMENTS DATED: 3/22/18 UPDATED SITE LAYOUT: 7/16/18	REVISION DATE BY Scale: NOTED Date: 12-6-2017 Field Bk:	MARK Engineer: MLC Technician: MW	CITY OF MADISON, WI 5010 VOGES ROAD MADISON, WISCONSIN 53718 608-838-0444   www.snyder-associates.com
<b>5535 UNIVERSITY AVENUE</b> <b>GRADING &amp; EROSION CONTROL PLAN</b>		<b>SNYDER &amp; ASSOCIATES, INC.</b>	
Project No: 117.0784.30 C.3.0			





**LEGEND**



**STORM STRUCTURE TABLE**

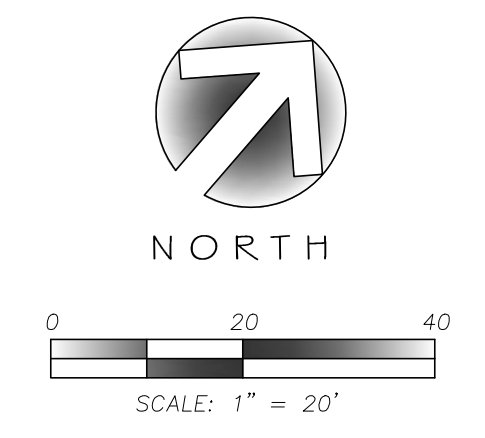
STRUCTURE NAME	STRUCTURE TYPE	FRAME	RIM/TC	INVERT
Clean Out	STORM CLEANOUT		911.16	907.31
STM-1	48" CONC STMH	R-3067-C	910.91	903.89
STM-2	48" CONC FI	R-2560-E	911.00	907.75
STM-3	2' x 3' CI	R-3067	907.43	903.68
STM-4	2' x 3' CI	R-3067	907.33	903.20
UPFLOW FILTER	SEE DETAIL	R-2070 TY. A	909.58	905.46

**STORM PIPE TABLE**

PIPE NAME	PIPE TYPE	SIZE (IN.)	FROM	TO	LENGTH (FT)	START INV	END INV	SLOPE
P-1	PVC	6	TRENCH GRATE	UPFLOW FILTER	35	907.50	906.21	3.71%
P-2	RCP	15	UPFLOW FILTER	STM-1	106	905.46	903.89	1.48%
P-3	RCP	15	STM-1	EX. STM. INLET	73	903.89	902.80	1.48%
P-4	PVC	10	BUILDING	Clean Out	6	907.68	907.48	3.12%
P-5	PVC	10	BUILDING	Clean Out	38	908.80	907.48	3.51%
P-6	RCP	12	Clean Out	UPFLOW FILTER	40	907.31	905.71	3.96%
P-7	RCP	12	STM-2	STM-3	143	907.75	903.68	2.84%
P-8	RCP	12	STM-3	STM-4	19	903.68	903.20	2.52%
P-9	RCP	12	STM-4	EX. STM. INLET	32	903.20	902.10	3.47%

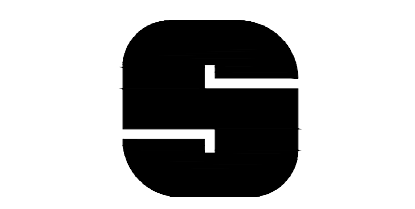
**UTILITY PLAN**


  
 TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
**CALL DIGGERS HOTLINE**  
**1-800-242-8511**  
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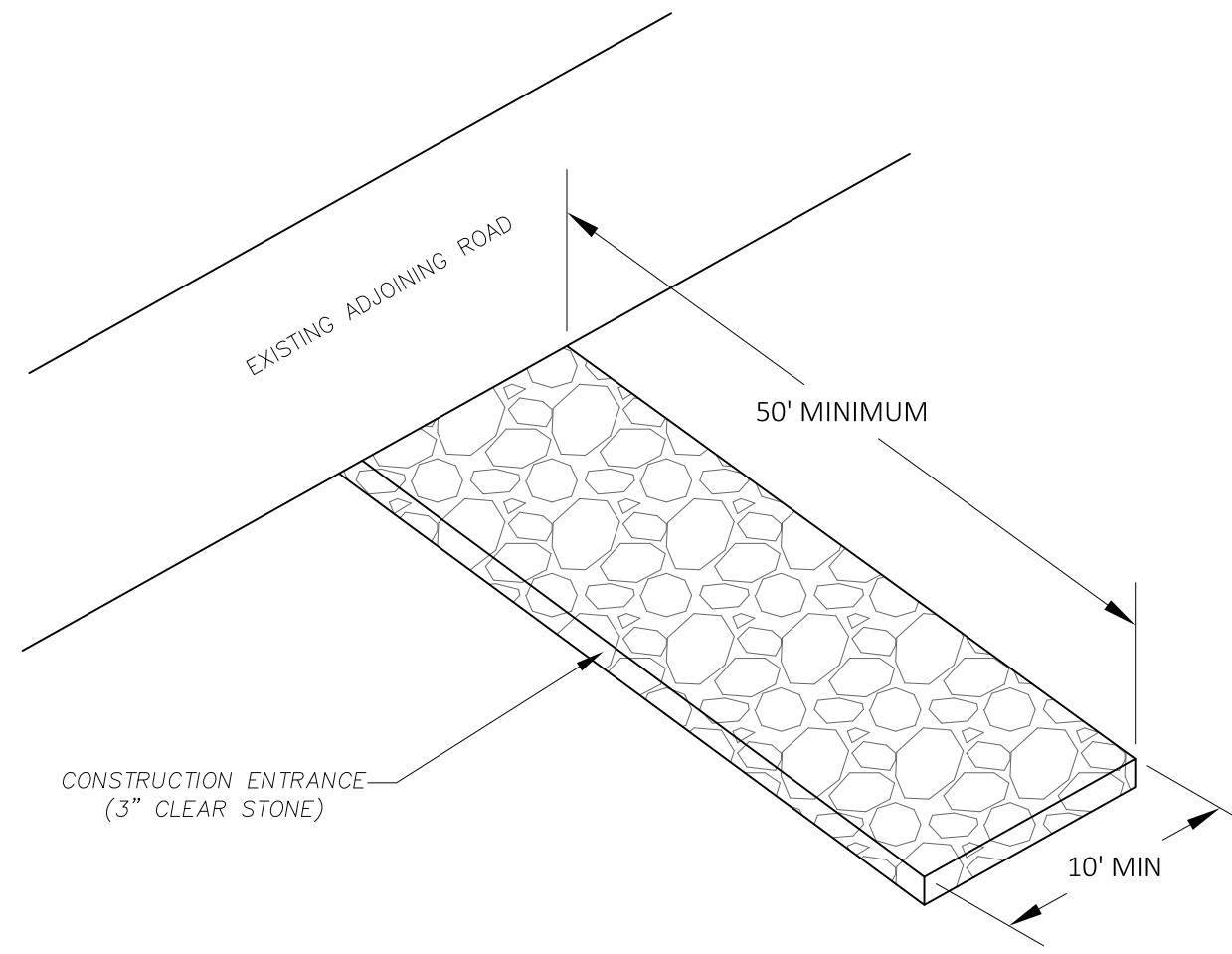
CITY COMMENTS DATED: 2/6/18	BCA	DATE	BY
CITY COMMENTS DATED: 3/22/18	BCA	Scale: NOTED	
UPDATED SITE LAYOUT	7/16/18	Field Bk.	Pg.
MARK	REVISION	Checked By: BCA/LAO	
Engineer: MLC		Date: 12-6-2017	
Technician: MW			

**5535 UNIVERSITY AVENUE**  
**UTILITY PLAN**  
**CITY OF MADISON, WI**  
**SNYDER & ASSOCIATES, INC.**  
5010 VOGES ROAD  
MADISON, WISCONSIN 53718  
608-838-0444 | www.snyder-associates.com

  
**SNYDER & ASSOCIATES**  
 Project No: 117.0784.30  
 C.4.0

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**GENERAL NOTES:**

- CONSTRUCTION ENTRANCE TO BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE.
- THE AGGREGATE FOR THE CONSTRUCTION ENTRANCE SHALL BE 3 INCH CLEAR OR WASHED STONE.
- AGGREGATE SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK.
- THE CONSTRUCTION ENTRANCE SHALL BE UNDERLAIN WITH A WOOD TYPE HR OR FF GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNDERLYING SOIL INTO THE STONE.
- SURFACE WATERS MUST BE PREVENTED FROM PASSING THROUGH THE CONSTRUCTION ENTRANCE. FLOWS SHALL BE DIVERTED AWAY FROM THE CONSTRUCTION ENTRANCE OR CONVEYED UNDER AND AROUND THEM BY USE OF A CULVERT, DIVERSION BERM OR OTHER PRACTICES AS APPROVED BY THE CONSTRUCTION ENGINEER.
- CLEANING BY SCRAPING OR ADDING NEW STONE SHALL BE REQUIRED IF ENTRANCE BECOMES MORE THAN 50% COVERED BY TRACKED MUD.

**1 CONSTRUCTION ENTRANCE**  
SCALE: NTS

**GENERAL NOTES**  
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WISDOT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

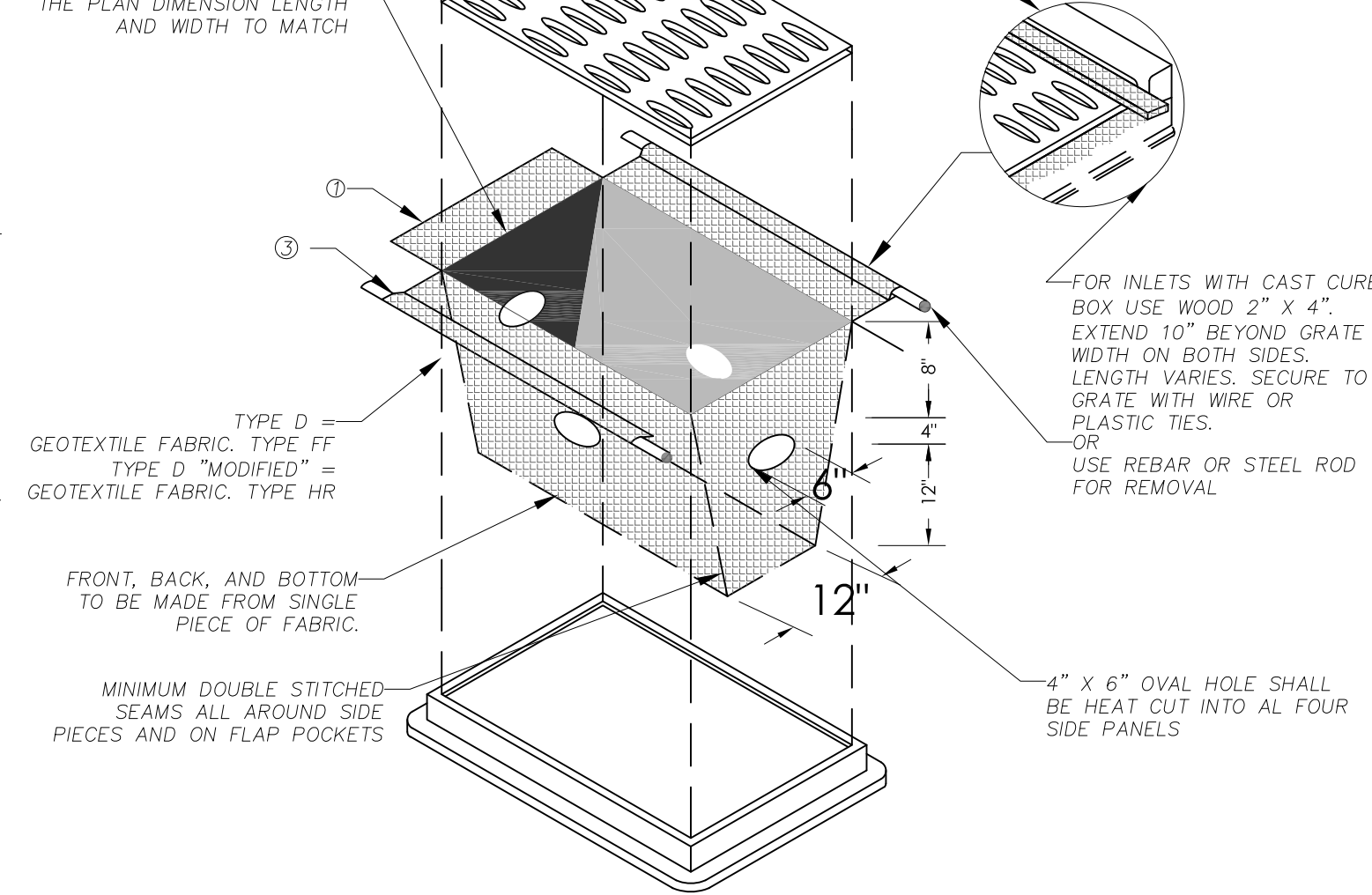
CLEANING SHALL BE REQUIRED WHEN SEDIMENT OR STANDING WATER IS WITHIN 6" OF OVERFLOW HOLES OR AS DIRECTED BY THE CONSTRUCTION ENGINEER.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARING BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3" WHERE NECESSARY THE CONTRACTOR SHALL GINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

- TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
- FOR INLET PROTECTION WITH CURB BOX AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INLET SPECIFICATIONS AS PER THE PLAN DIMENSION LENGTH AND WIDTH TO MATCH

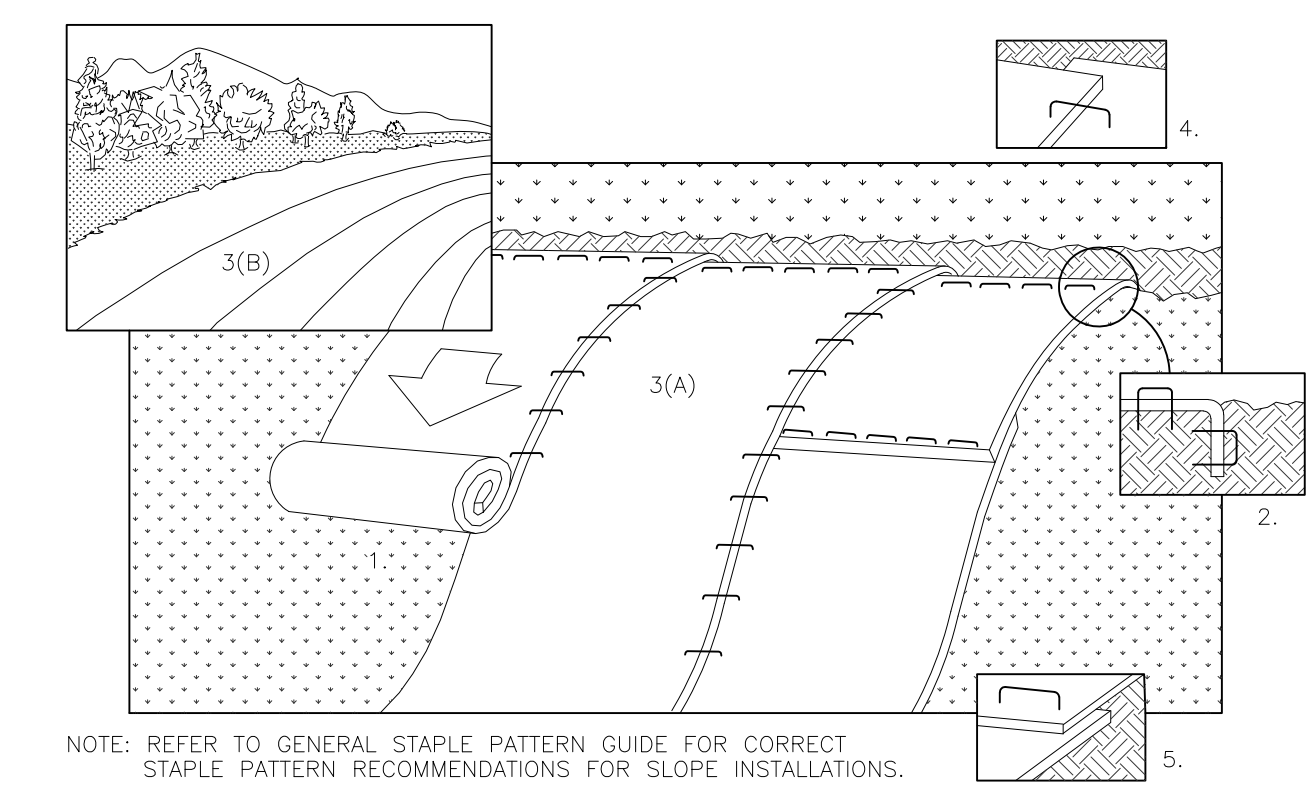


(CAN BE INSTALLED IN ANY OUTLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE (2))

**3 INLET PROTECTION TYPE "D" DETAIL**  
SCALE: NTS

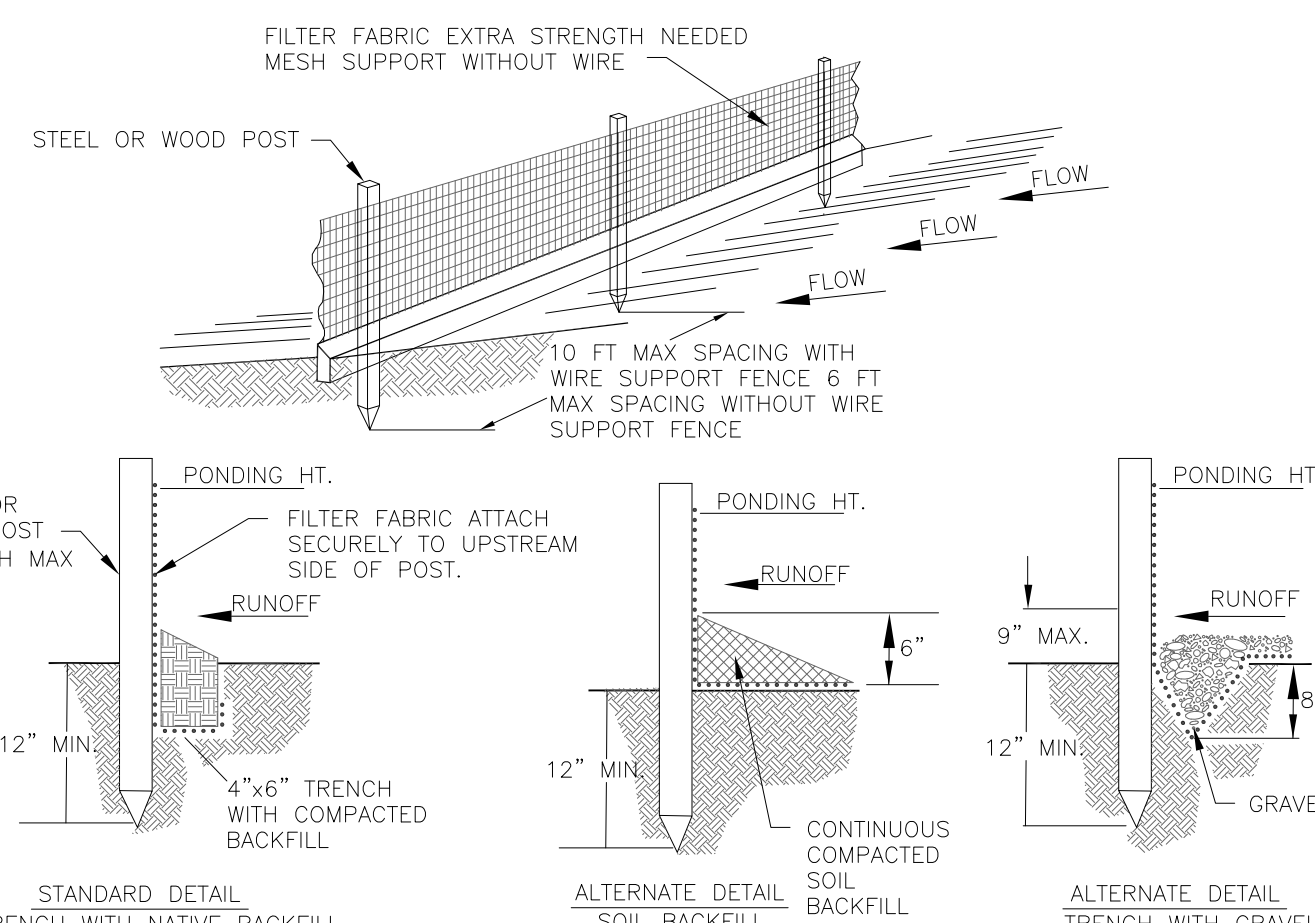
**EROSION CONTROL NOTES**

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS, INCLUDING WISDNR WPDES DISCHARGE PERMIT (IF APPLICABLE), COUNTY AND LOCAL EROSION CONTROL PERMIT. CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.
- ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARD, FOUND AT: [http://dnr.wisconsin.gov/topic/Stormwater/standards/technical\\_standards.htm](http://dnr.wisconsin.gov/topic/Stormwater/standards/technical_standards.htm) OR THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK IF A TECHNICAL STANDARD IS NOT AVAILABLE.
- ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH ALL APPLICABLE PERMITS ISSUED FOR THE PROJECT.
- ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD. REPAIRS SHALL BE MADE IMMEDIATELY TO EROSION CONTROL PRACTICES AS NECESSARY.
- TEMPORARY STOCKPILES SHALL BE STABILIZED IF NOT REMOVED IN 10 DAYS. PERIMETER CONTROL ON THE DOWNHILL SIDE SHALL BE IN PLACE AT ALL TIMES (SILT FENCE OR APPROVED EQUAL).
- TEMPORARY SEED MIXTURE SHALL CONFORM TO 630.2.1.5.1.4 OF THE WISDOT STANDARD SPECIFICATIONS USE WINTER WHEAT OR RYE FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 1.
- DISTURBED AREAS THAT CANNOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION BY SEEDING AND MULCHING DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION, SHALL BE STABILIZED BY APPLYING ANIONIC POLYACRYLAMIDE (PAM) IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1050.
- SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASINS TO MAINTAIN A THREE FOOT DEPTH OF TREATMENT, MEASURED BELOW THE NORMAL WATER ELEVATION. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE AND DITCH CHECKS WHEN IT REACHES HALF THE HEIGHT OF THE FENCE/BALE THE SILT FENCE AND DITCH CHECKS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- ALL WATER FROM CONSTRUCTION DEWATERING SHALL BE TREATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061 PRIOR TO DISCHARGE TO WATERS OF THE STATE, WETLANDS, OR OFFSITE.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING ON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL TEMPORARY EROSION CONTROL AND/OR SEDIMENT TRAPS IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT. TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.
- TRACKED MATERIAL TO ADJACENT STREETS SHALL BE COLLECTED AT THE END OF EACH WORKING DAY OR AS REQUIRED BY THE LOCAL MUNICIPALITY.
- DUST CONTROL SHALL BE PROVIDED AS NECESSARY IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
- FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
- ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE APPROVED LANDSCAPE PLAN TO MAINTAIN A VIGOROUS DENSE VEGETATIVE COVER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EROSION CONTROL FACILITIES AND MEASURES NECESSARY TO CONTROL EROSION AND SEDIMENTATION AT THE PROJECT SITE. THESE FACILITIES AND MEASURES MAY OR MAY NOT BE SHOWN ON THE DRAWINGS AND THEIR ABSENCE ON THE DRAWINGS DOES NOT ALLEVIATE THE CONTRACTOR FROM PROVIDING THEM. ANY MEASURES AND FACILITIES SHOWN ON THE DRAWINGS ARE THE MINIMUM ACTIONS REQUIRED.
- ERODED MATERIAL THAT HAS LEFT THE CONSTRUCTION SITE SHALL BE COLLECTED AND RETURNED TO THE SITE BY THE CONTRACTOR.
- AFTER FINAL VEGETATION IS ESTABLISHED, REMOVE ALL EROSION CONTROL FACILITIES. RESTORE AREAS DISTURBED BY THE REMOVALS.
- KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE. CONSTRUCT AND MAINTAIN THE SEDIMENT BASIN PER WDNR TECHNICAL STANDARDS.
- PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
- MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.

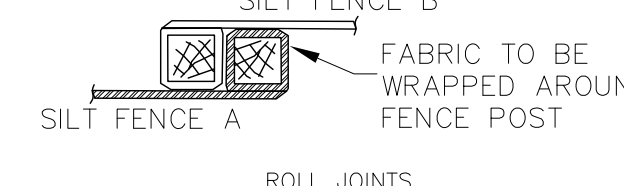


- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.
- PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
- FULL LENGTH EDGE OF BLANKETS AT TOP OF SLOPE MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
- THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- EROSION MAT SHALL EXTEND FOR WHICHEVER IS GREATER: UPSLOPE ONE FOOT MIN. VERTICALLY FROM DITCH BOTTOM OR 6" HIGHER THAN DESIGN FLOW DEPTH.
- EROSION MAT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS 1053.

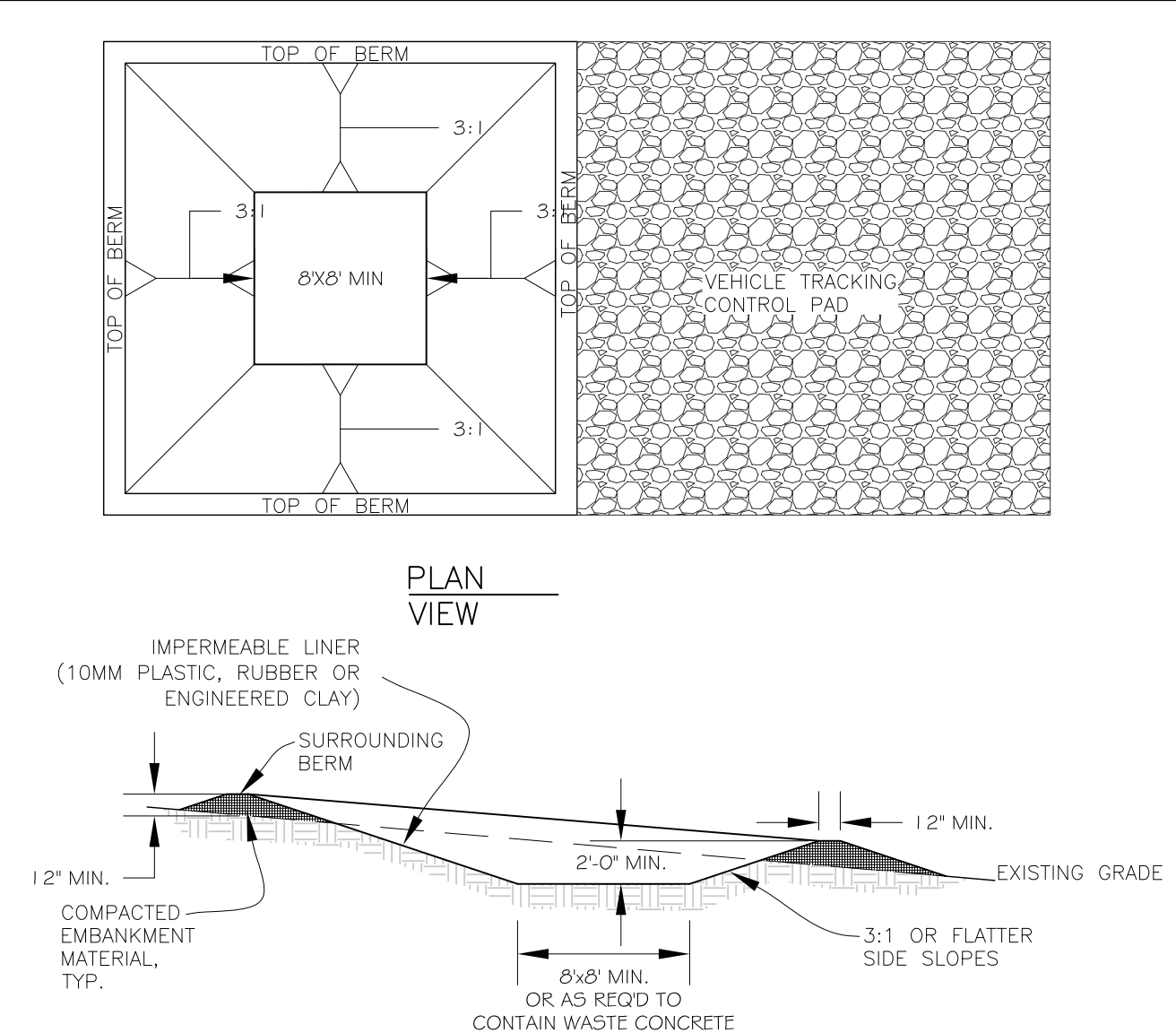
**6 EROSION CONTROL MAT - SLOPE INSTALLATION**  
SCALE: NTS



- NOTE:**
- INSPECT FENCE WEEKLY AND AFTER EACH RAIN EVENT OF 0.5 INCHES AND REPAIR IF REQUIRED. REMOVE SEDIMENT WHEN NECESSARY OR WHEN SEDIMENT REACHES 1/2 OF FENCE HEIGHT.
  - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
  - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
  - SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1056.

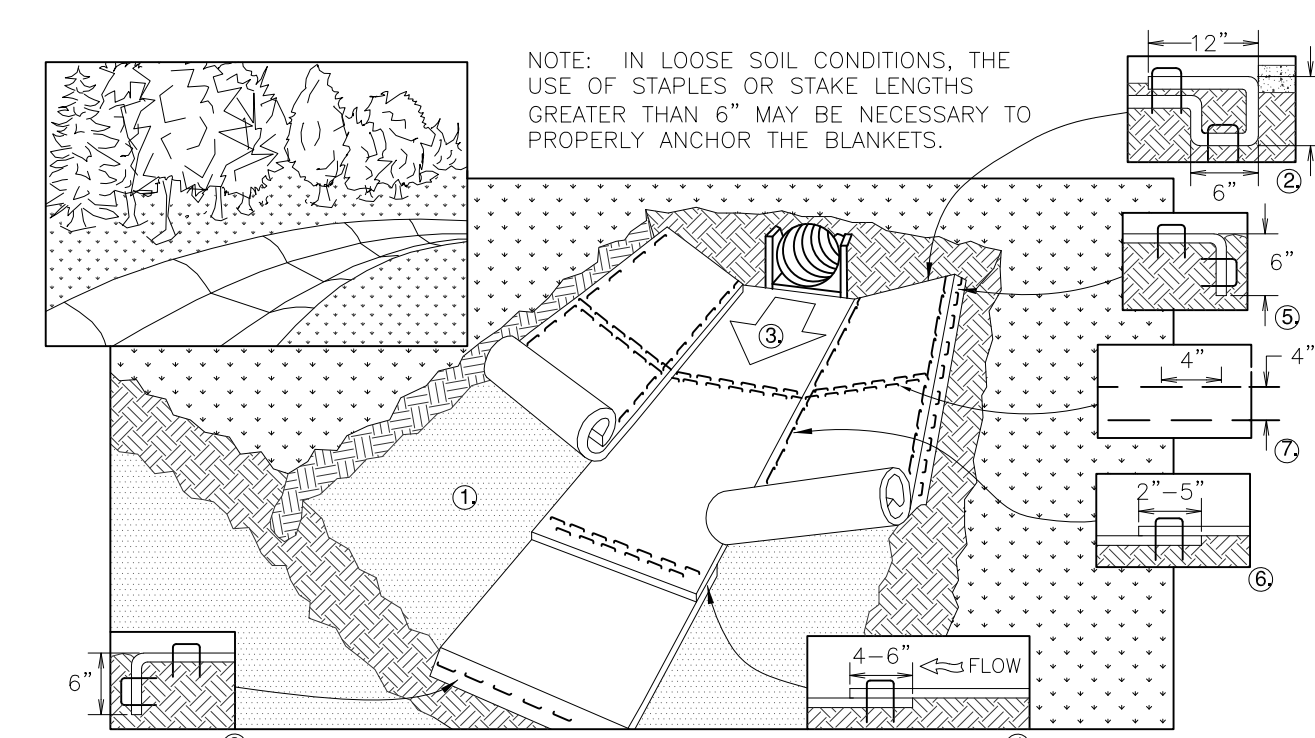


**2 SILT FENCE DETAIL**  
SCALE: NTS



- CONCRETE WASHOUT AREA INSTALLATION NOTES**
- SEE EROSION CONTROL PLAN FOR LOCATIONS OF CONCRETE WASHOUT AREA(S). TO BE PLACED A MIN. OF 50' FROM DRAINAGEWAYS, BODIES OF WATER, AND INLETS.)
  - THE CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
  - VEHICLE TRACKING CONTROL PAD IS REQ'D AT THE ACCESS POINT(S).
  - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA(S), AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREAS TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
  - EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.
- CONCRETE WASHOUT AREA MAINTENANCE NOTES**
- THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE
  - AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
  - WHEN CONCRETE WASHOUT AREA(S) IS REMOVED, THE DISTURBED AREA SHALL BE STABILIZED PER SITE EROSION CONTROL MEASURES.
  - INSPECT WEEKLY AND DURING AND AFTER ALL STORM EVENTS. CLEAN-OUT OR COVER WASHOUT AREA PRIOR TO PREDICTED STORM EVENTS TO PREVENT OVER-FLOW.

**4 CONCRETE WASHOUT AREA**  
SCALE: NTS



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.
- PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
- FULL LENGTH EDGE OF BLANKETS AT TOP OF SLOPE MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
- THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- EROSION MAT SHALL EXTEND FOR WHICHEVER IS GREATER: UPSLOPE ONE FOOT MIN. VERTICALLY FROM DITCH BOTTOM OR 6" HIGHER THAN DESIGN FLOW DEPTH.
- EROSION MAT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS 1053.

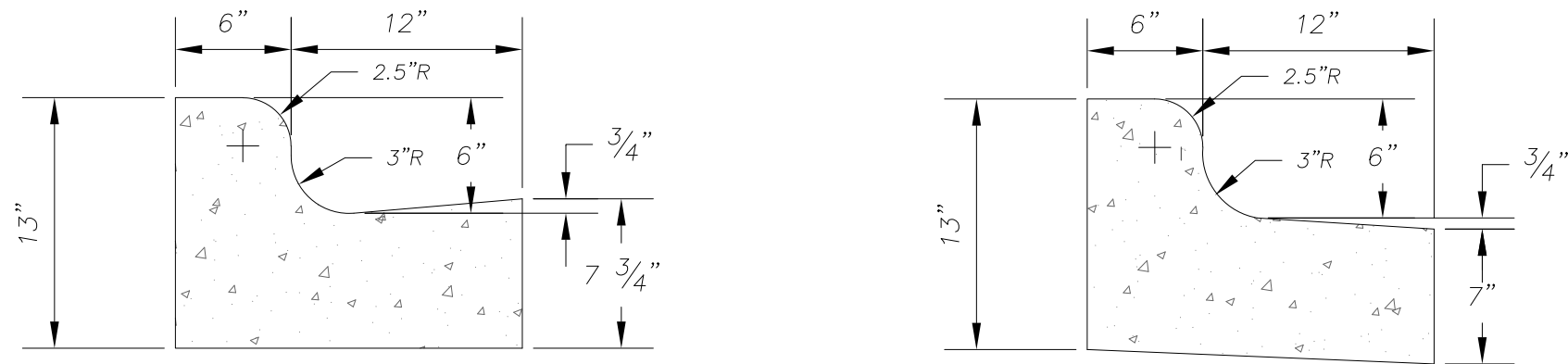
**5 EROSION CONTROL MAT - CHANNEL INSTALLATION**  
SCALE: NTS

5533 UNIVERSITY AVENUE  
EROSION DETAILS  
SNYDER & ASSOCIATES

CITY OF MADISON, WI  
5010 VOEGES ROAD  
MADISON, WISCONSIN 53718  
608-838-0444 | www.snyder-associates.com

Project No: 117.0784.30  
C5.0

MARK	REVISION	DATE	BY
Engineer: MLC	Checked By: BCA/LAO	Scale: NOTED	Field Bk:
Technician: MW	Date: 12-6-2017		Pg:



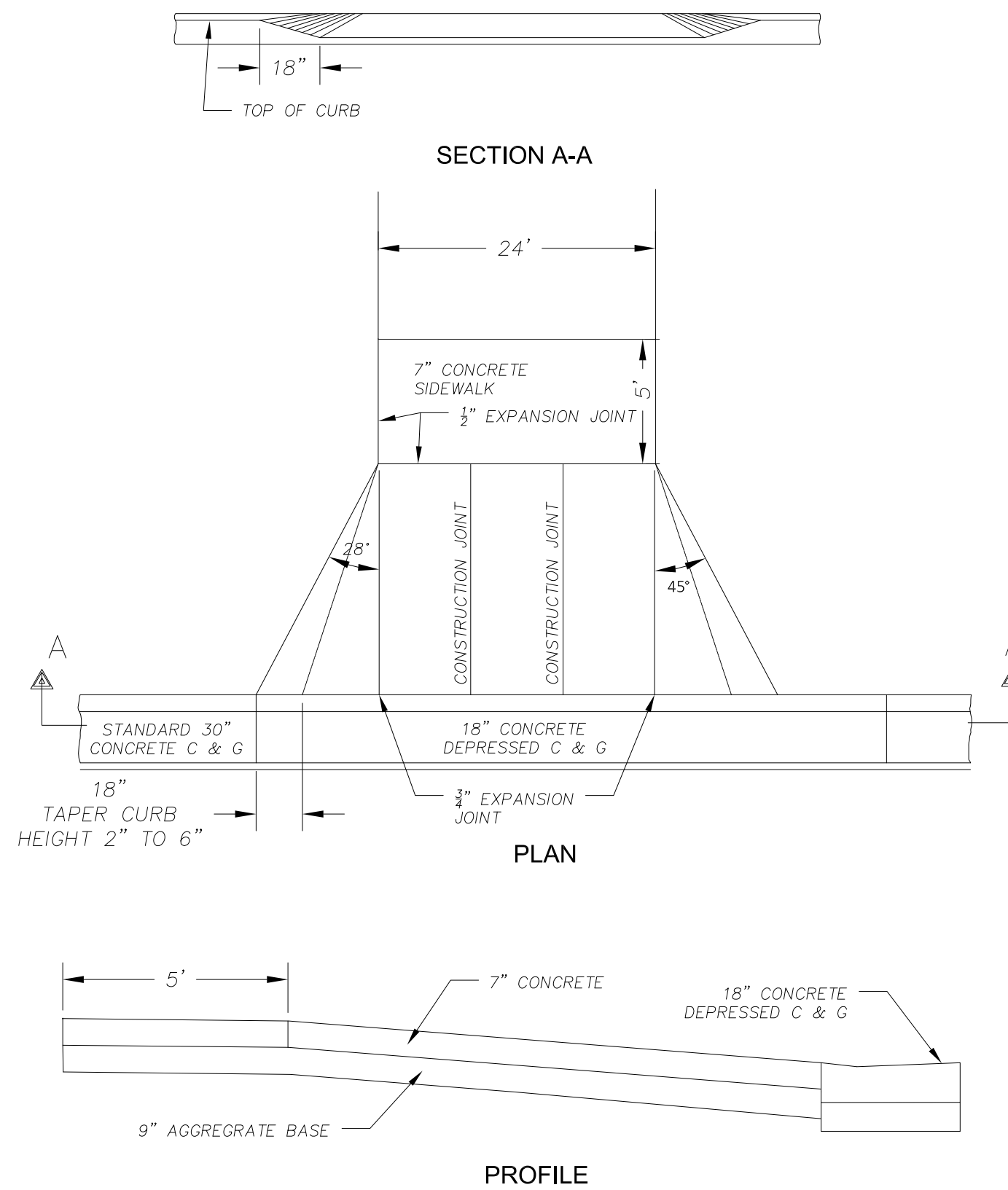
STANDARD

REJECT

NOTES:

- LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH. EXPANSION JOINTS SHALL BE PLACED TRANSVERSELY AT RADIUS POINTS ON CURVES OF RADIUS 200' OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER.
- THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 1/2" THICK. IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED STONE.

1 CONCRETE CURB & GUTTER  
C5.1 SCALE: NTS



4 DRIVEWAY DETAIL  
C5.1 SCALE: NTS

PAVEMENT AND CURB NOTES

- THE IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O. T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LA TEST EDITION, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
- PAVING SHALL CONSIST OF FINE GRADING PAVEMENT AREAS, INSTALLATION OF CRUSHED STONE BASE, CONCRETE AND/OR BITUMINOUS PAVEMENT, PAVEMENT MARKING, AND CLEANUP. ALL MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.
- AGGREGATES USED IN THE CRUSHED AGGREGATE BASE SHALL BE (1-INCH) DENSE GRADED BASE IN ACCORDANCE WITH SUBSECTION 305.2.2 OF THE STANDARD SPECIFICATIONS.
- HOT MIX ASPHALT PAVEMENT (HMA) SHALL BE SUPERPAVE (E-\*\*) IN ACCORDANCE WITH SECTION 460 OF THE STANDARD SPECIFICATIONS.
- ASPHALTIC MATERIALS SHALL BE PERFORMANCE GRADED (PG) BINDERS IN ACCORDANCE WITH SECTION 455 OF THE STANDARD SPECIFICATIONS. UPPER LAYERS SHALL BE PG(\*\*), AND LOWER LAYERS SHALL BE PG(\*\*).
- AGGREGATES USED IN THE HMA SHALL BE IN ACCORDANCE WITH SUBSECTION 460.2.2.3 OF THE STANDARD SPECIFICATIONS. UPPER LAYERS SHALL BE PG(\*\*), AND THE LOWER LAYER PAVEMENT SHALL BE PG(\*\*).
- TACK COAT SHALL BE IN ACCORDANCE WITH SUBSECTION 455.2.5 OF THE STANDARD SPECIFICATIONS. THE RATE OF APPLICATION SHALL BE 0.025 GAL/SY.
- CONCRETE FOR CURB, DRIVEWAY, WALKS AND NON-FLOOR SLABS SHALL BE GRADE A (OR GRADE A2 IF PLACING BY SLIP-FORMED PROCESS) AIR ENTRAINED IN ACCORDANCE WITH SECTION 501 FOR THE STANDARD SPECIFICATIONS, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI.
- CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS: SECTION 415 FOR CONCRETE PAVEMENT SECTION 601 FOR CONCRETE CURB AND GUTTER SECTION 602 FOR CONCRETE SIDEWALKS.
- ALL FINISHED CONCRETE SHALL BE COVERED WITH A LIQUID CURING COMPOUND CONFORMING TO AASHTO M 148, TYPE 2, IN ACCORDANCE WITH SECTION 415 OF THE STANDARD SPECIFICATIONS.
- PAVEMENT MARKINGS SHALL BE PAINT IN ACCORDANCE WITH SECTION 646 OF THE STANDARD SPECIFICATIONS. (COLOR SHALL BE AS INDICATED ON THE PLANS.) THE FOLLOWING ITEMS SHALL BE PAINTED WITH COLORS NOTED BELOW:  
PARKING STALLS: WHITE  
PEDESTRIAN CROSSWALKS: WHITE  
LANE STRIPING WHERE SEPARATING TRAFFIC IS MOVING IN OPPOSITE DIRECTIONS: YELLOW  
LANE STRIPING WHERE SEPARATING TRAFFIC IS MOVING IN SAME DIRECTIONS: WHITE  
ADA SYMBOLS: BLUE OR PER LOCAL CODE  
FIRE LANES: PER LOCAL CODE  
EXTERIOR SIDEWALK CURBED, LIGHT POLE BASES, AND GUARD POSTS: YELLOW

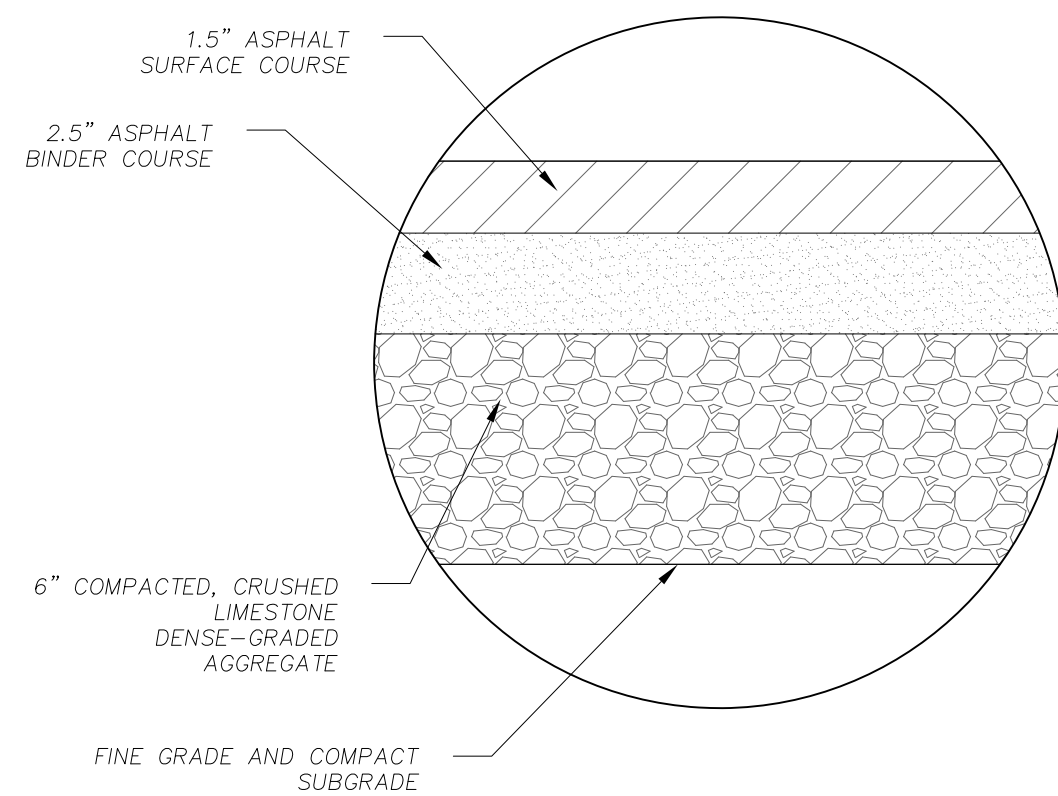
NOTE: PAVEMENT SHALL BE DESIGNED BY GEOTECHNICAL ENGINEER. MISSING INFORMATION ABOVE, DESIGNATED WITH (\*), SHALL BE FILLED IN PER GEOTECHNICAL REPORT. CAUTION: INFORMATION BELOW SHALL BE USED ONLY AS A GUIDE.

\* DENSE GRADED BASE GRADATIONS: 3-INCH, 1 1/4-INCH, OR 3/4-INCH (TYPICALLY 1 1/4-INCH)  
\*\* HMA SUPERPAVE TYPES: E-0.3, E-1, E-3, E-10, E-30 (TYPICALLY E-0.3 OR E-1 FOR MOST RESIDENTIAL AND COMMERCIAL PROJECTS)

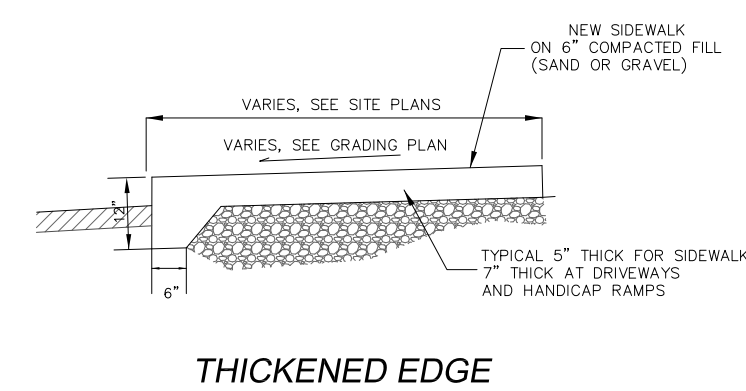
\*\*\* PG BINDERS:  
64-22 BASIC ASPHALT, TYPICALLY USED FOR PARKING LOTS  
58-28 RECOMMENDED FOR OVERLAY PROJECTS  
64-28 POLYMER ADDED, HIGH COST ASPHALT, LARGEST RANGE OF TEMP.  
UPPER LAYER PG64-28, PG64-22, OR PG58-28  
LOWER LAYER PG64-22 (IF UPPER LAYER IS PG64-xx OR HIGHER), OR PG58-28

\*\*\*\* HMA AGGREGATE GRADATIONS: 37.5 MM, 25.0 MM, 19.0 MM, 12.5 MM, 9.5 MM (TYPICALLY 19.0 MM FOR UPPER LAYER, 12.5 MM FOR LOWER LAYER)

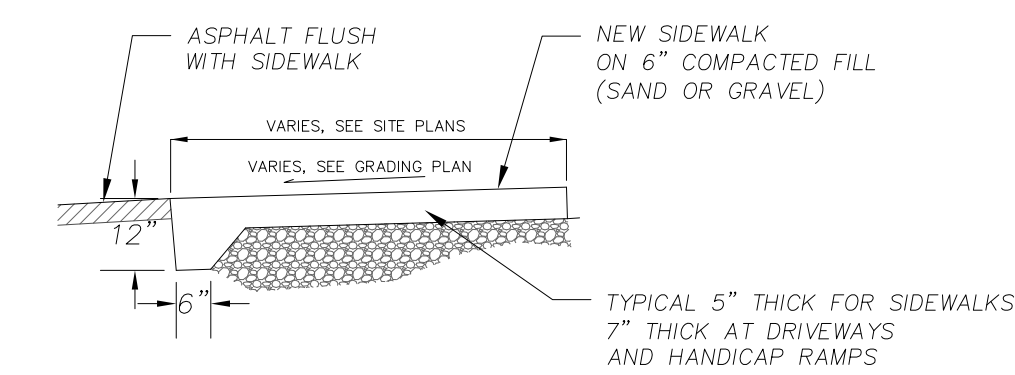
6 NOT USED  
C5.1 SCALE: NTS



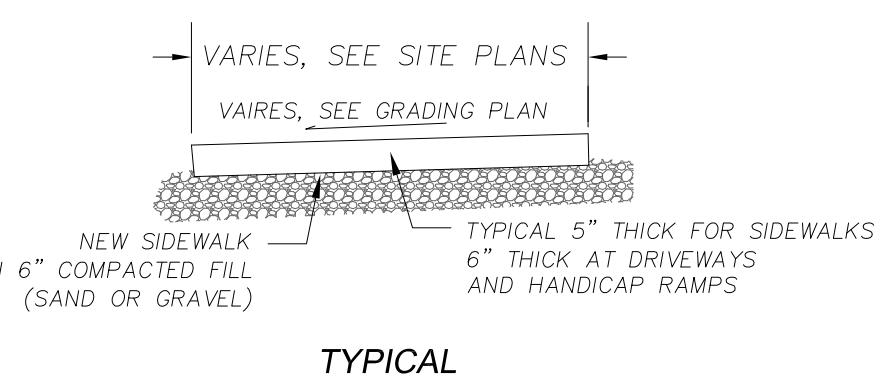
2 LIGHT DUTY ASPHALT PAVING DETAIL  
C5.1 SCALE: NTS



THICKENED EDGE

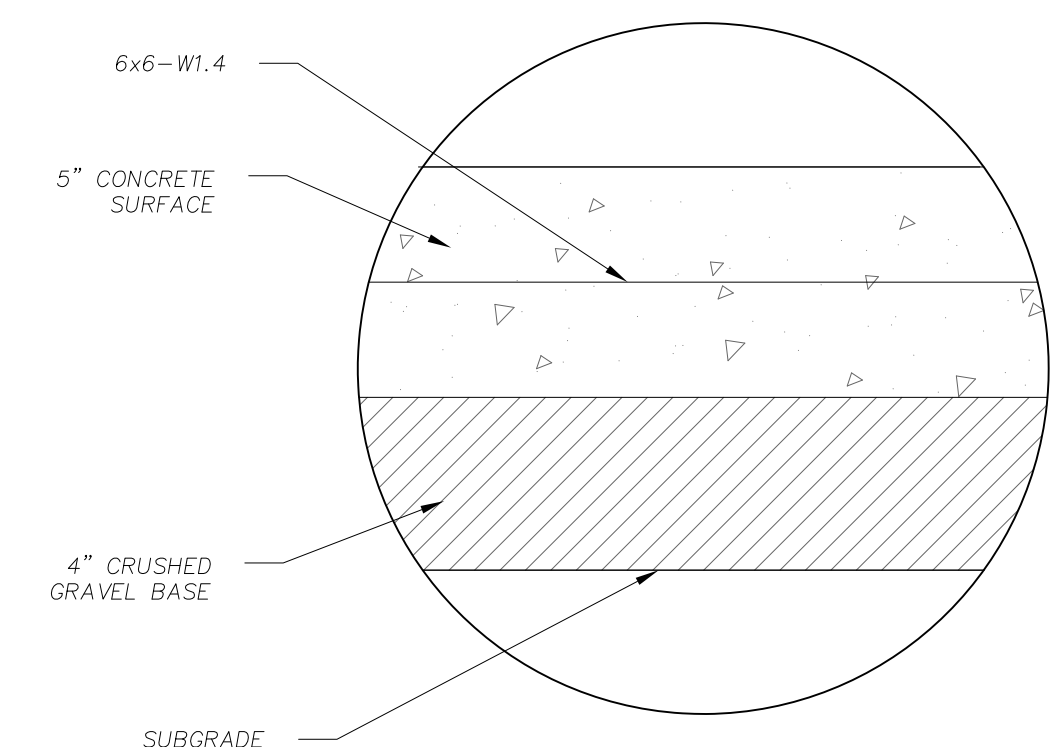


THICKENED EDGE (FLUSH)



TYPICAL

5 CONCRETE SIDEWALK DETAILS  
C5.1 SCALE: NTS



3 DUMPSTER PAD LOADING CONCRETE DETAIL  
C5.1 SCALE: NTS

5533 UNIVERSITY AVENUE  
SITE DETAILS

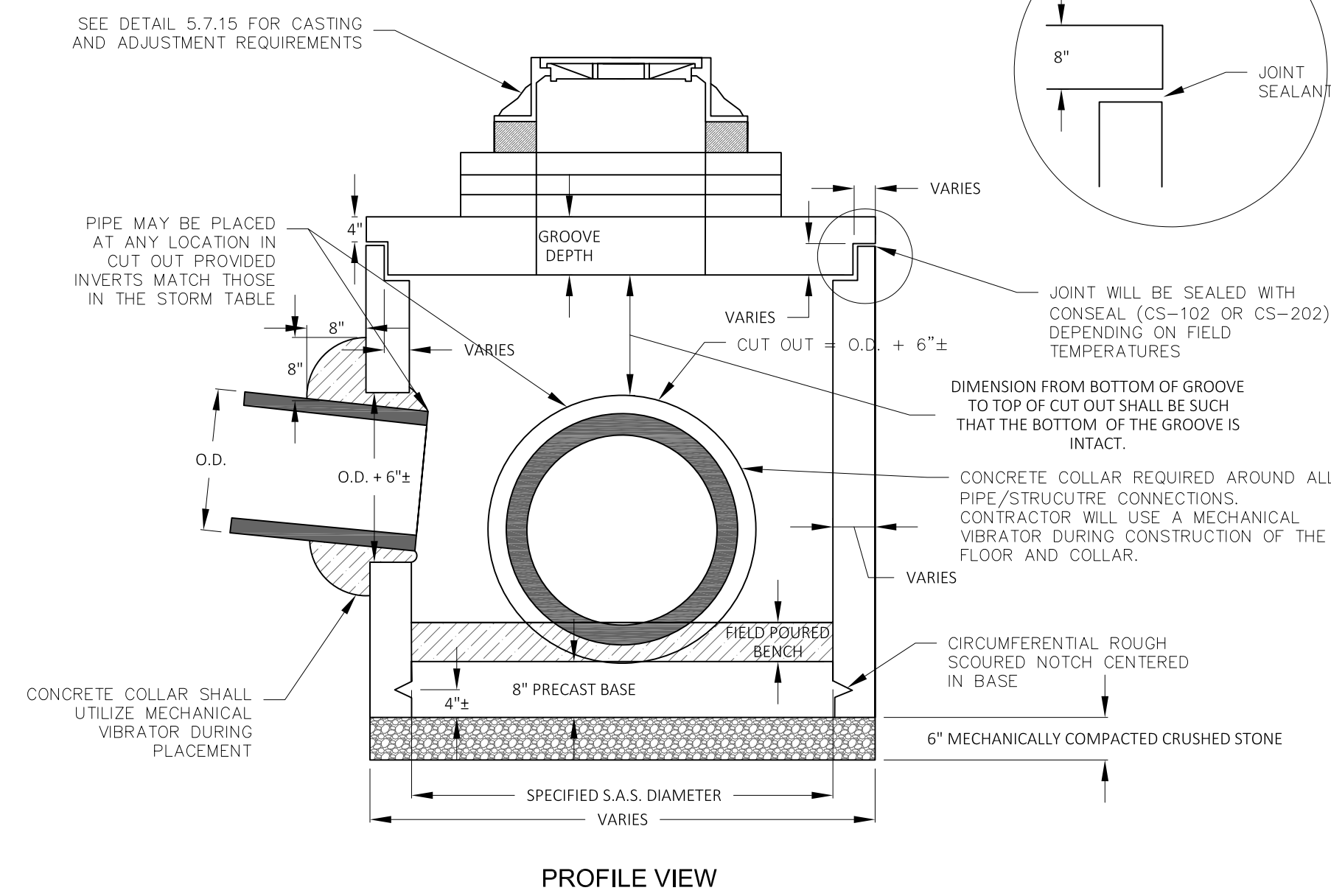
CITY OF MADISON, WI

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Project No: 117.0784.30

C 5.1

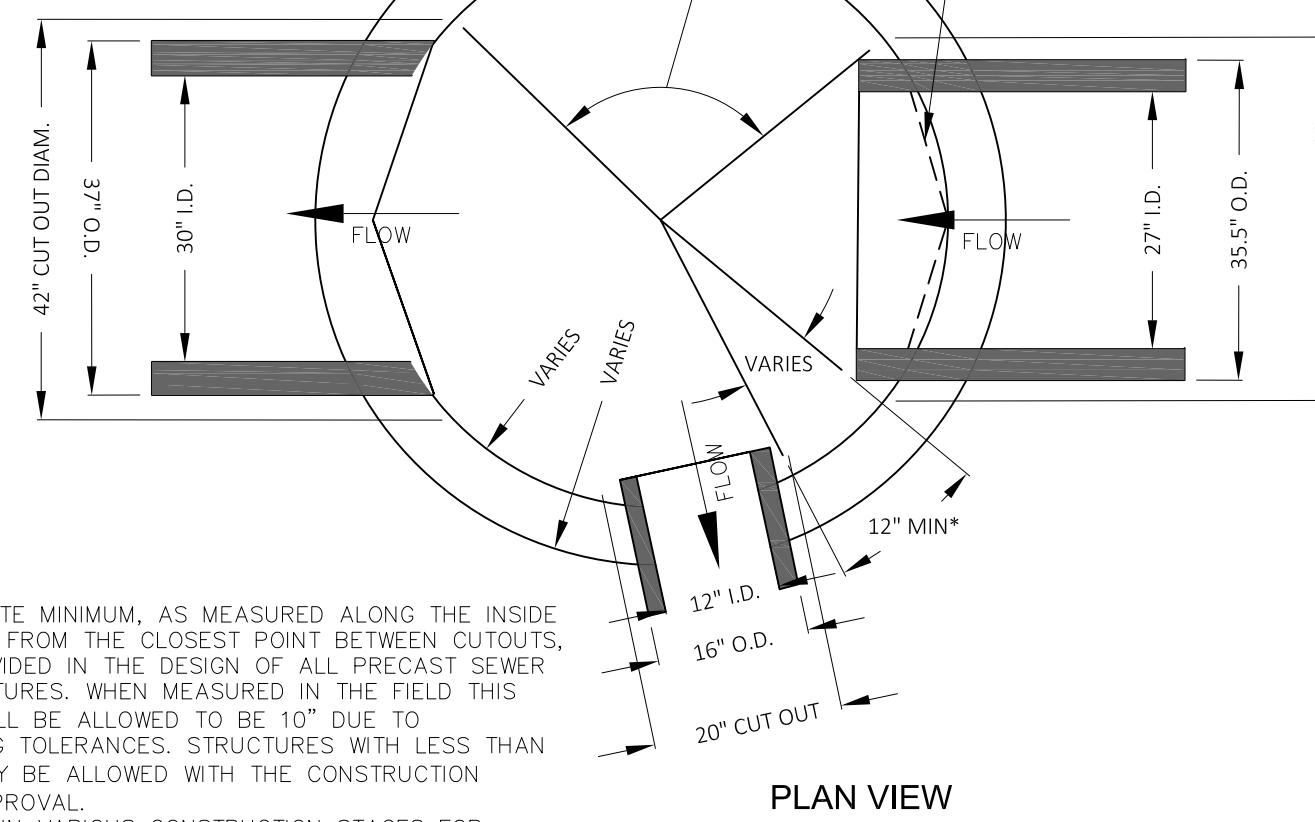


PROFILE VIEW

NOTE: ALL STORM SEWER ACCESS STRUCTURES (S.A.S.) SHALL BE CONSTRUCTED IN COMPLIANCE WITH ASTM C478.

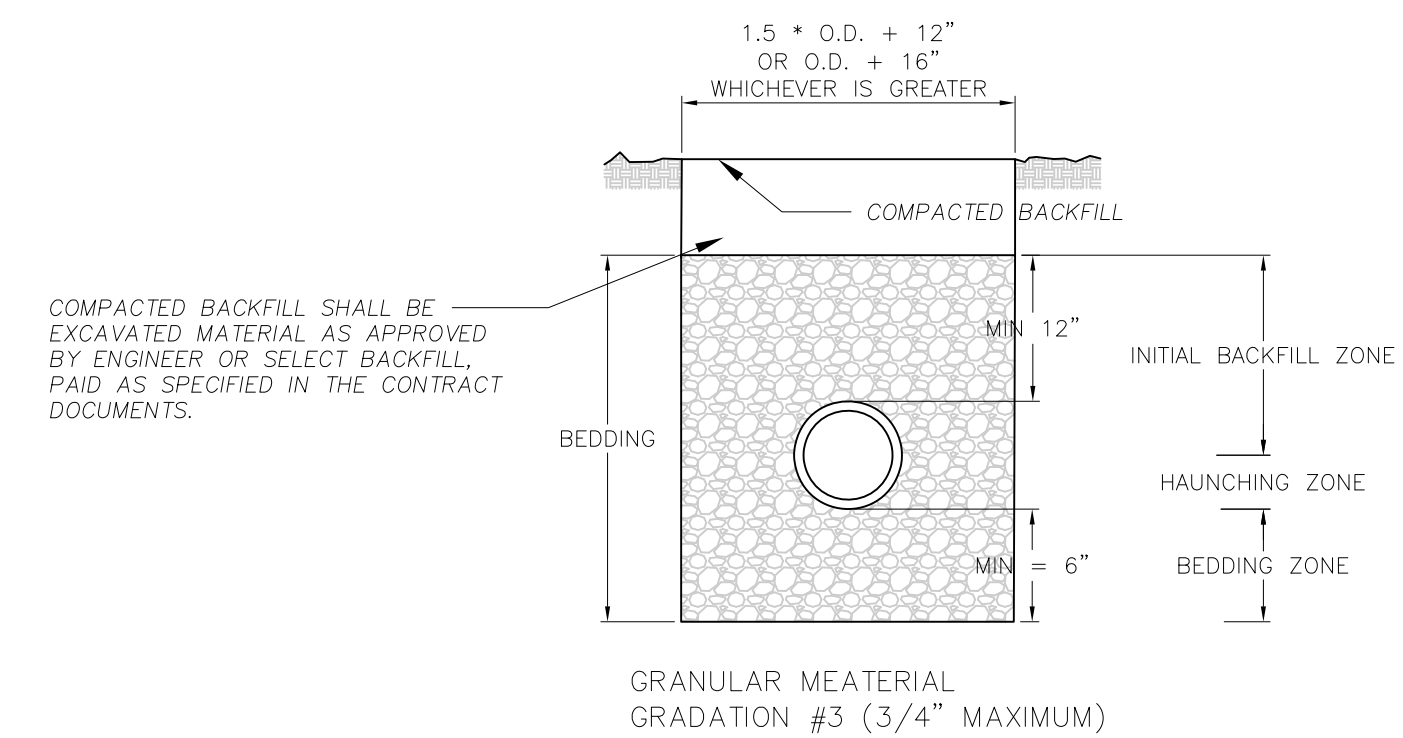
NOTE: FOR STRAIGHT THROUGH PIPE ALIGNMENTS IN STORM SEWER ACCESS STRUCTURES THE MINIMUM DEGREE ALLOWED BETWEEN CUTOUT SHALL BE 60°

PIPE SHALL BE CUT TO APPROXIMATELY MATCH THE INSIDE OF THE S.A.S. PIPES SHALL BE CUT FROM THE INTERSECTION OF THE PIPE O.D. WITH THE STRUCTURE WALL TO THE CENTER OF THE PIPE AS SHOWN.



PLAN VIEW

• 12" OF CONCRETE MINIMUM, AS MEASURED ALONG THE INSIDE WALL RADIALLY FROM THE CLOSEST POINT BETWEEN CUTOUTS, SHALL BE PROVIDED IN THE DESIGN OF ALL PRECAST SEWER ACCESS STRUCTURES. WHEN MEASURED IN THE FIELD THIS DIMENSION SHALL BE ALLOWED TO BE 10" DUE TO MANUFACTURING TOLERANCES. STRUCTURES WITH LESS THAN 10" SHALL ONLY BE ALLOWED WITH THE CONSTRUCTION ENGINEER'S APPROVAL.  
 •• PIPES SHOWN IN VARIOUS CONSTRUCTION STAGES FOR ILLUSTRATIVE PURPOSES.



COMPACTED BACKFILL SHALL BE EXCAVATED MATERIAL AS APPROVED BY ENGINEER OR SELECT BACKFILL, PAID AS SPECIFIED IN THE CONTRACT DOCUMENTS.

NOTES:

UNLESS OTHERWISE SPECIFIED, ALL SANITARY AND STORM SEWER PIPES, INCLUDING LATERALS AND LEADS, SHALL BE INSTALLED WITH THE TYPE OF BEDDING SHOWN FOR THE TYPE AND SIZE OF PIPE INSTALLED.

THE COST OF BEDDING SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PIPE. FOR RCP, BEDDING INCLUDES THE HAUNCHING & BEDDING ZONES. FOR PLASTIC PIPES, THE BEDDING INCLUDES THE HAUNCHING, BEDDING & INITIAL BACKFILL ZONES. THE BEDDING SHALL BE INSTALLED & COMPACTED IN 6" MAXIMUM LIFTS.

ALL TRENCHES SHALL BE HAND BACKFILLED TO A POINT 12" ABOVE THE TOP OF THE PIPE. ALL BEDDING SHALL BE MECHANICALLY COMPACTED. PAYMENT SHALL NOT BE MADE FOR BACKFILL WITH EXCAVATED MATERIAL, IF APPROVED. SELECT FILL IF REQUIRED. SHALL BE PAID PER CONTRACT.

THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE O.D. + 24" AND MINIMUM OF O.D. + 16" AS SPECIFIED, AND SHALL APPLY FROM THE BOTTOM OF THE TRENCH TO A POINT 12" ABOVE THE TOP OF THE PIPE. WHERE THIS WIDTH IS EXCEEDED, THE CONTRACTOR SHALL FURNISH AND INSTALL A HIGHER TYPE OF BEDDING AT NO EXTRA COST. THE TYPE OF BEDDING SHALL BE DETERMINED BY THE ENGINEER.

O.D. EQUALS THE OUTSIDE DIAMETER OF THE PIPE.

1 PRECAST STORM SEWER  
 C5.2 SCALE: NTS

2 STORM PIPE BEDDING AND BACKFILL  
 C5.2 SCALE: NTS

5533 UNIVERSITY AVENUE  
 UTILITY DETAILS



Project No: 117.0784.30

C 5.2

CITY OF MADISON, WI

5010 VOGES ROAD  
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SNYDER & ASSOCIATES, INC.

MARK REVISION BY DATE

BY

DATE

Scale: NOTED

Checked By: BCA/LAO

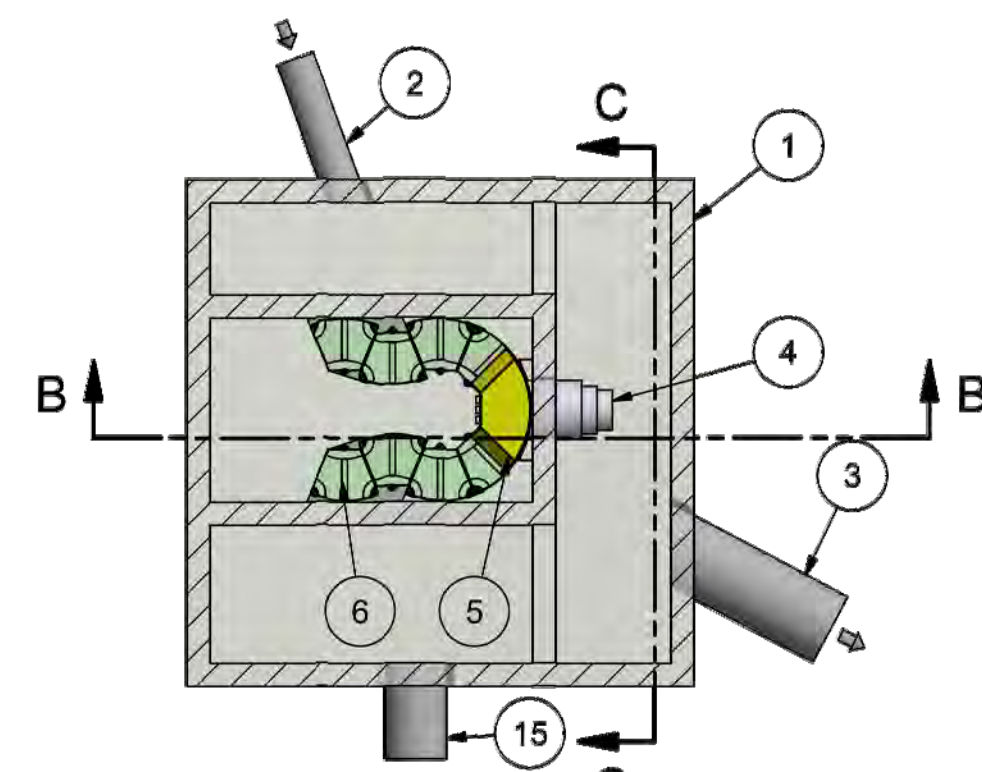
Engineer: MLC

Technician: MW

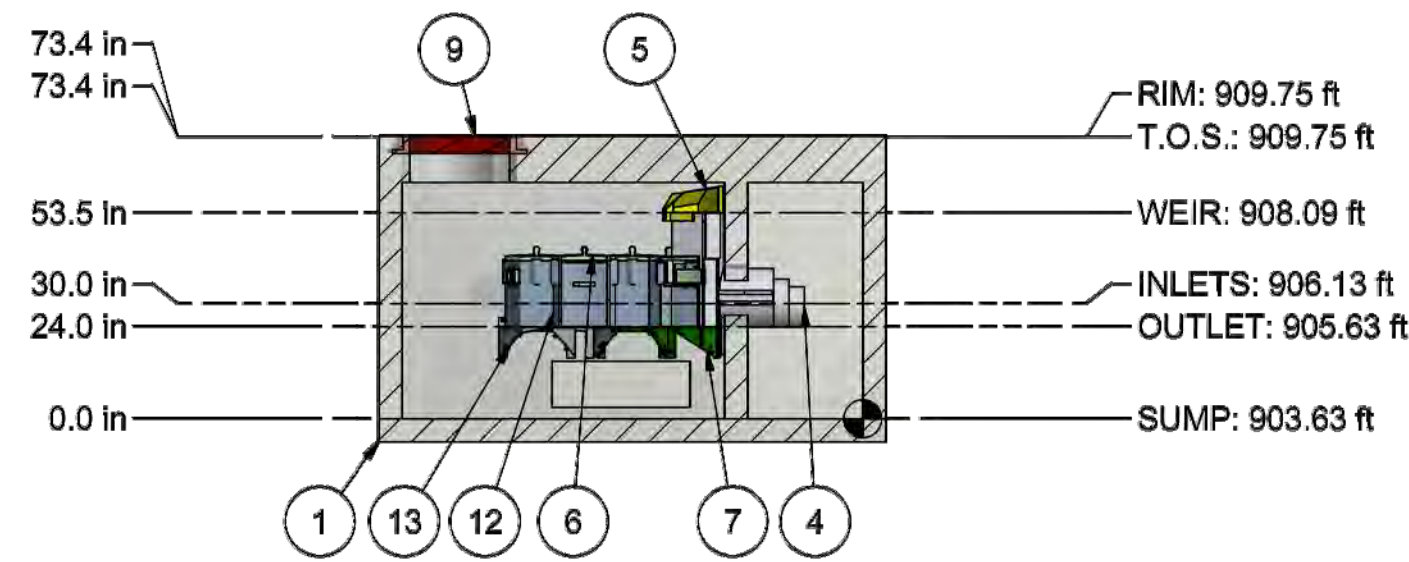
Date: 12-6-2017

Field Bk: Pg.





PLAN A-A  
SCALE 1:50



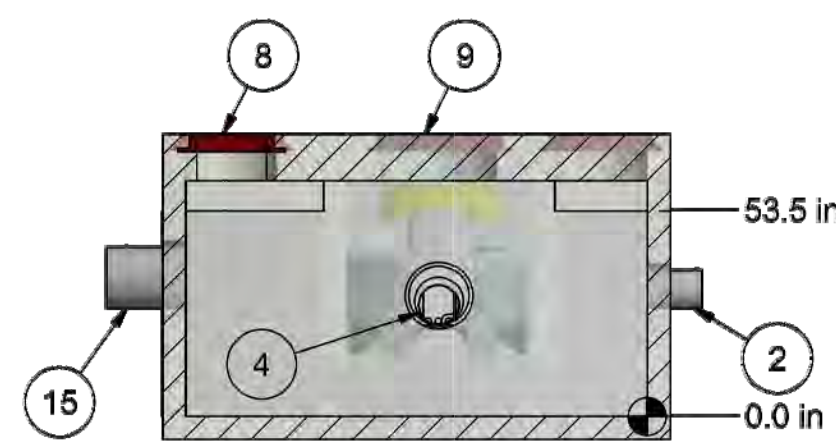
SECTION B-B  
SCALE 1:50

**CAPACITIES:**

1. Minimum performance: 80% removal. NJDEP - NJDEP Blend; NJCAT, Sil-Co-Sil 106 (d50 = 22 microns) at the peak treatment flow.
2. NJDEP peak treatment flow: .056 cfs (25 gpm) per module, CPZ
3. Maximum number of modules per outlet module: 38 \*\*

**ADDITIONAL DESIGN INFORMATION:**

1. \* Normal operating W.S.E. is 2.46' above the outlet invert at the peak treatment flow of .056 cfs (25 gpm) per module. For a given flow the head requirement can be reduced by adding additional filters.
2. \*\* Treatment flows that require more modules will require a larger vault design or different arrangement.
3. Media Types Available: New Jersey - Ribbons; Elsewhere - CPZ



SECTION C-C  
SCALE 1:50

ITEM	QTY	DESCRIPTION	SIZE (in)
1	1	PRECAST VAULT	120 x 120
2	1	INLET PIPE	6
3	1	OUTLET PIPE	15
4	1	OUTLET MODULE	
5	1	BYPASS HOOD	
6	8	MODULE LID	
7	5	SUPPORT FRAME	
8	3	24" FRAME AND COVER	24
9	1	30" FRAME AND COVER	30
11	4	WEDGE WALL MOUNT	
12	8	MODULE BODY	
13	1	SUPPORT FRAME LH	
14	1	SUPPORT FRAME RH	
15	1	AUX PIPE 1	12.0
16	4	BACKER PLATE	

ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY ONLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY STRUCTURE, PLANT, OR EQUIPMENT, OR THE PERFORMANCE THEREOF, DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL HAS A POLICY OF CONTINUOUS DEVELOPMENT AND RESERVES THE RIGHT TO MAKE THE SPECIFICATION. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF ITS EQUIPMENT, OR ANY PART THEREOF, IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE ANY DESIGN SPECIFICATION. HYDRO INTERNATIONAL OWNS THE COPYRIGHT OF THIS DRAWING, WHICH IS SUPPLIED IN CONFIDENCE. IT MUST NOT BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED AND MUST NOT BE REPRODUCED, IN WHOLE OR IN PART, WITHOUT PRIOR PERMISSION IN WRITING FROM HYDRO INTERNATIONAL.  
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**DO NOT SCALE DRAWING**  
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE:  
FRACTIONS ± 1/16  
DECIMALS:  
XX ± .05  
XXX ± .03  
X,XXX ± .015  
ANGLES ± .5°



COMMENTS:  
1. STRUCTURE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.  
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING THE UP-FLO VAULT

REV	BY	DESCRIPTION	DATE
A	GJW	ADD PIPE, SIZE, RIM, INVERTS	4/12/2018
		PRINT RELEASE	3/15/2018

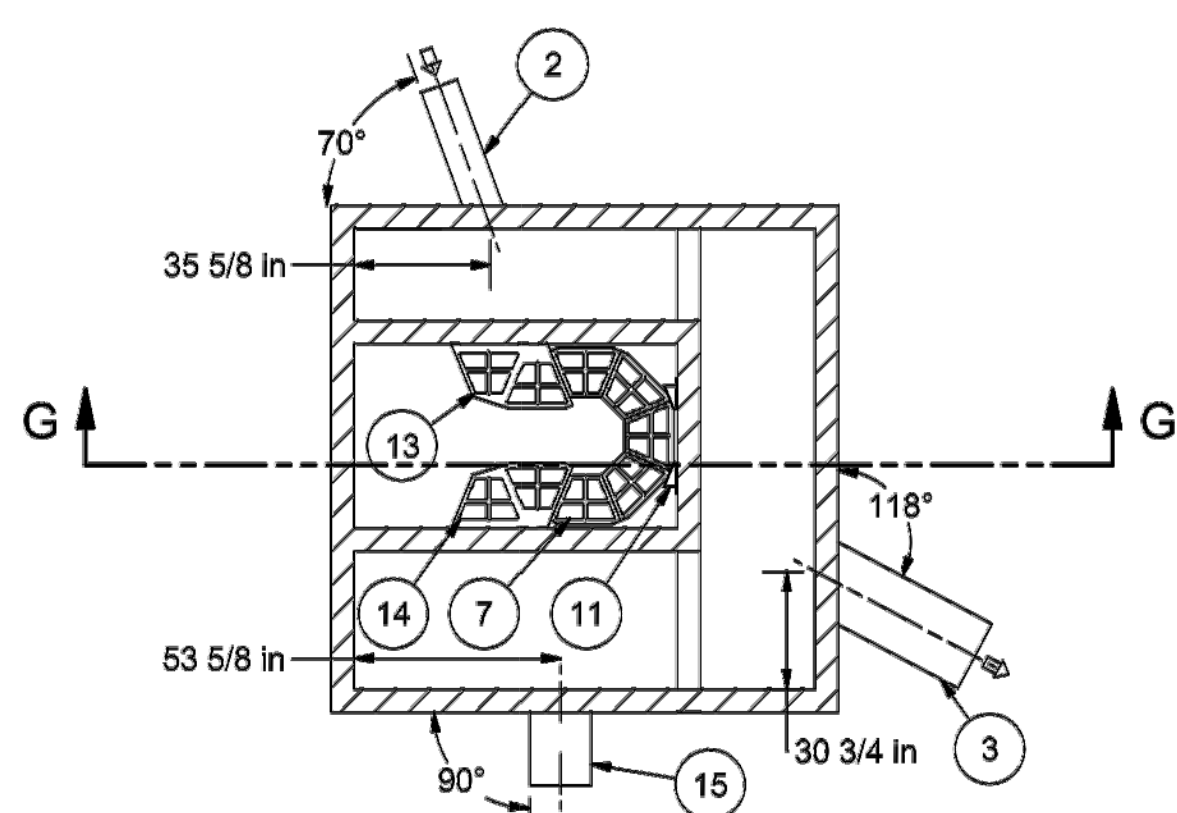
DATE: 4/12/2018 SCALE: 1:50  
DRAWN BY: GJW CHECKED BY: APPROVED BY:  
THE 8MZ UP-FLO FILTER 10R x 10R  
WQU 5533 UNIVERSITY AVE MADISON, WI

DISTRIBUTED BY: ADVANCED DRAINAGE SYSTEMS, INC. PLEASE CALL OR EMAIL JAKE BRUNOEHLE FOR PRICING  
Jake.Brunoehler@ads-pipe.com 282-794-2308

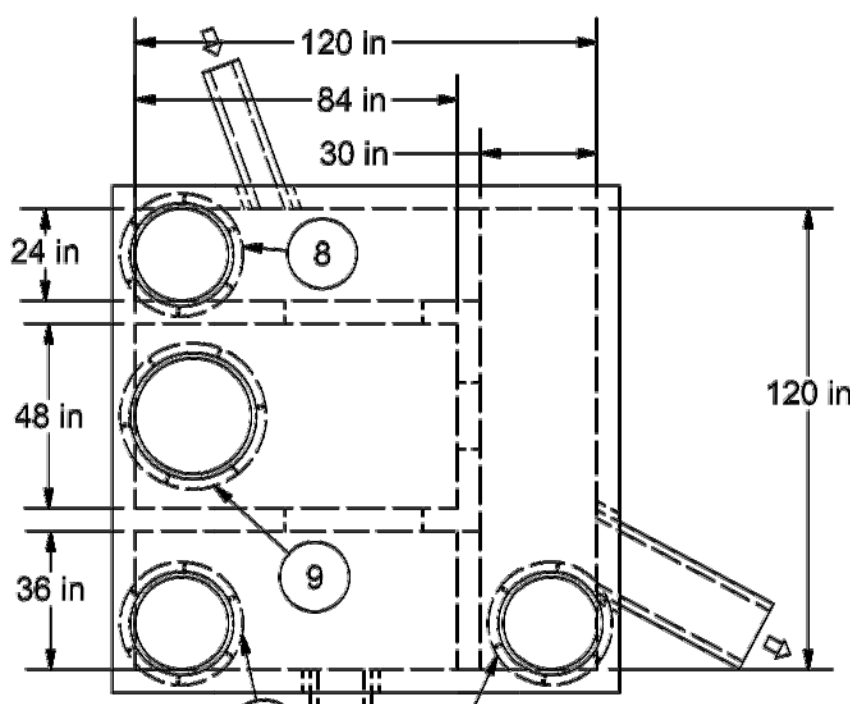


94 Hutchins Drive  
Portland, ME 04102  
Tel: +1 (207) 756-8200  
Fax: +1 (207) 756-6212  
hydro-int.com

WEIGHT: N/A MATERIAL:  
NEXT ASSEMBLY: 18\_12\_0384-NEXT ASSY  
DRAWING NO.: 18\_12\_0384-Up Flo Master Model  
SHEET SIZE: B SHEET: 1 OF 2 Rev: A



PLAN D-D  
SCALE 1/50



PRECAST DETAIL  
INTERNALS REMOVED FOR CLARITY

ITEM	QTY	DESCRIPTION	SIZE (in)
1	1	PRECAST VAULT	120 x 120
2	1	INLET PIPE	6
3	1	OUTLET PIPE	15
4	1	OUTLET MODULE	
5	1	BYPASS HOOD	
6	8	MODULE LID	
7	5	SUPPORT FRAME	
8	3	24" FRAME AND COVER	24
9	1	30" FRAME AND COVER	30
11	4	WEDGE WALL MOUNT	
12	8	MODULE BODY	
13	1	SUPPORT FRAME LH	
14	1	SUPPORT FRAME RH	
15	1	AUX PIPE 1	12.0
16	4	BACKER PLATE	

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TOLERANCES ARE:  
FRACTIONS ± 1/16  
DECIMALS:  
XX ± .05  
XXX ± .03  
X,XXX ± .015  
ANGLES ± .5°



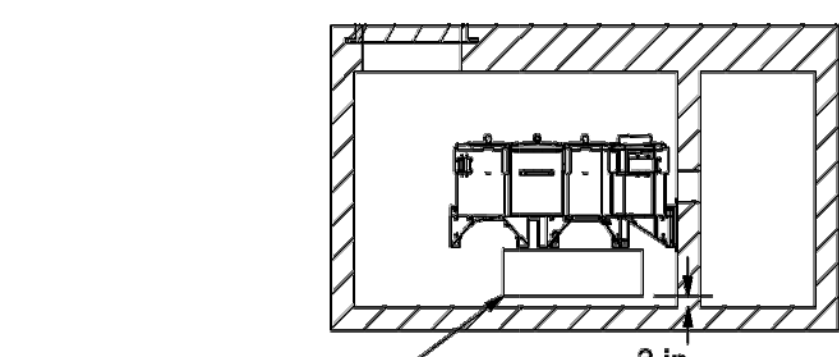
COMMENTS:  
DATE: 4/12/2018 SCALE: 1/50  
DRAWN BY: GJW CHECKED BY: APPROVED BY:  
THE 8MZ UP-FLO FILTER 10R x 10R  
WQU 5533 UNIVERSITY AVE MADISON, WI

DISTRIBUTED BY: ADVANCED DRAINAGE SYSTEMS, INC. PLEASE CALL OR EMAIL JAKE BRUNOEHLE FOR PRICING  
Jake.Brunoehler@ads-pipe.com 282-794-2308



2925 NW Alcock Drive  
Suite 140  
Hillsboro, OR 97124  
Tel: +1 (503) 615-8130  
Fax: +1 (503) 615-2906  
hydro-int.com

WEIGHT: N/A MATERIAL:  
NEXT ASSEMBLY: 18\_12\_0384-NEXT ASSY  
DRAWING NO.: 18\_12\_0384-Up Flo Master Model  
SHEET SIZE: B SHEET: 2 OF 2 Rev: A



FOOT WALL LAYOUT

1 UP-FLO FILTER AND VAULT DETAIL  
C5.3 SCALE: NTS

MARK	REVISION	DATE	BY
	Checked By: BCA/LAO	Scale: NOTED	
	Engineer: MLC	Date: 12-6-2017	
	Technician: MW	Field Bk:	

CITY COMMENTS DATED 3/22/18 4/10/18 BCA

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MADISON, WISCONSIN 53718  
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C 5.3





# NELSON LANDSCAPE INC.

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 Waukesha, WI 53187-0823  
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 www.nelsonlandscape.com

## Sheet Title: LANDSCAPE PLAN

Project: PROPOSED DEVELOPMENT  
 5535 UNIVERSITY AVENUE  
 MADISON, WI 53705

### Client:

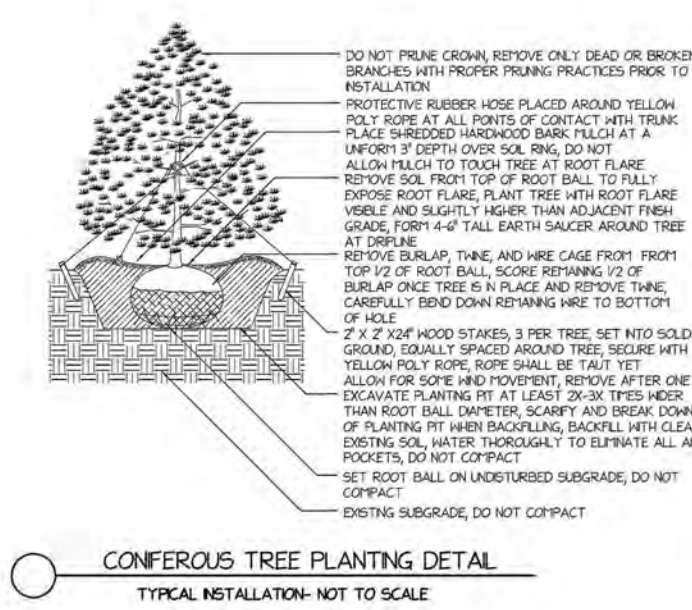
### Plan Notes:

Designed By:  
 Drawn By: C. J. N.  
 Date: 10-03-17  
 Revisions: 10-04-17, 12-05-17, 12-07-17, 12-11-17, 4-04-18, 4-06-18, 4-09-18, 7-17-18

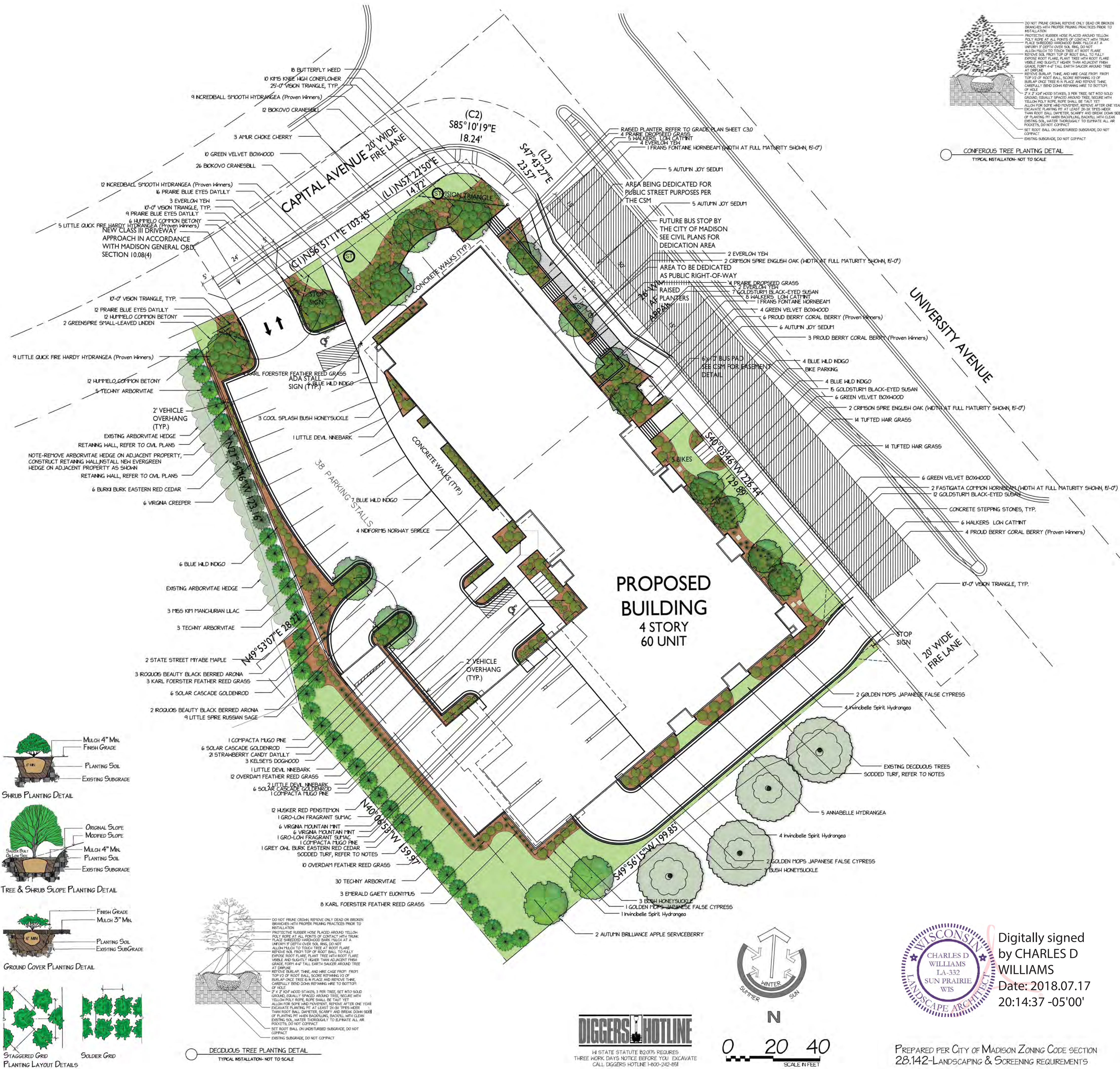
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This plan is subject to final on-site conditions and may be modified to account for unforeseen obstacles, other changes, or site modifications that were not made known at the time of preparation dated on this plan.



CONFERRER TREE PLANTING DETAIL  
 TYPICAL INSTALLATION - NOT TO SCALE



Qty	Botanical Name	Common Name	Size/Condition
1	<i>Aster multiflorus</i>	AUTUMN BRILLIANCE APPLE SERVICEBERRY (multi-stem)	8-24"/h.
2	<i>Acer rubrum</i>	STATE STREET HYDRANGEA	2 1/2"/h. b.
4	<i>Cornus florida</i>	FRANS FONTANE HORNEBEAM	2 1/2"/h. b.
4	<i>Juniperus virginiana</i>	BURKI BURK EASTERN RED CEDAR	4 1/4" b.
3	<i>Prunus pennsylvanica</i>	APRIL CHOKO CHERRY	2 1/2"/h. b.
1	<i>Quercus prinus</i>	CRIMSON SPRE ENGLISH OAK	2 1/2"/h. b.
36	<i>Thuja occidentalis</i>	TECHNY ARBORVITAE	4 1/4" b.
1	<i>Thuja occidentalis</i>	GREENSPRE SMALL-LEAVED LINDEN	2 1/2"/h. b.

### LANDSCAPE CALCULATIONS & DISTRIBUTION:

TOTAL SQUARE FOOTAGE OF DEVELOPED AREA= 35,483 SQUARE FEET  
 TOTAL LANDSCAPE POINTS REQUIRED= 595

### Tabulation of Points and Credits

Use the table to indicate the quantity and points for all existing and proposed landscape elements.

Plant Type/Element	Minimum Size at Installation	Points	Credits Existing Landscaping	New/Proposed Landscaping	Points Achieved
Overstory deciduous tree	2 1/2" inch caliper measured diameter at breast height (dbh)	35		15	525
Tall evergreen tree (i.e. pine, spruce)	5-6 feet tall	35			
Ornamental tree	1 1/2 inch caliper	15		2	30
Upright evergreen shrub (i.e. yew, arbutus)	3-4 feet tall	10		27	270
Shrub, deciduous	#3 gallon container size, Min. 12"-24"	3		96	288
Shrub, evergreen	#3 gallon container size, Min. 12"-24"	4		49	196
Ornamental grasses/perennials	#1 gallon container size, Min. 8"-18"	2		383	766
Ornamental decorative fencing or wall	n/a	4 per 10 linear ft.			
Existing significant specimen tree	Minimum size: 3 1/2 inch caliper dbh. *Trees must be within developed area and cannot comprise more than 30% of total required points.		14 per caliper inch dbh. Maximum points per tree: 200		
Landscape furniture for public seating and/or transit connections	n/a	5 points per "seat"			
<b>Sub Totals</b>					<b>2,075</b>

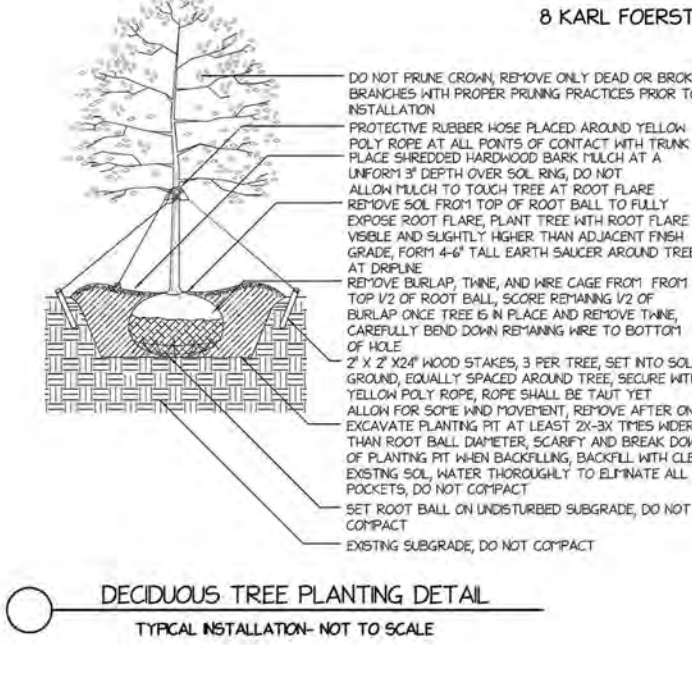
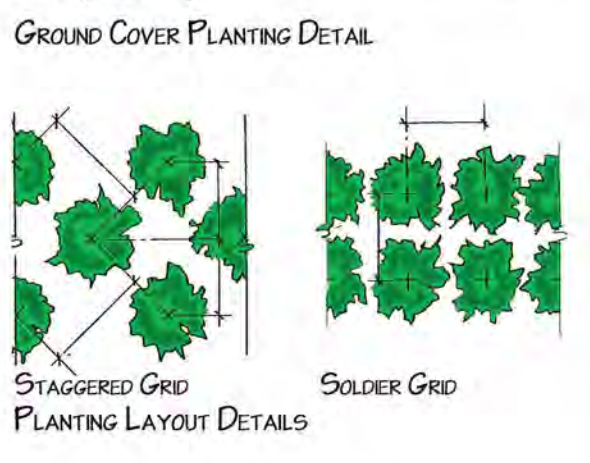
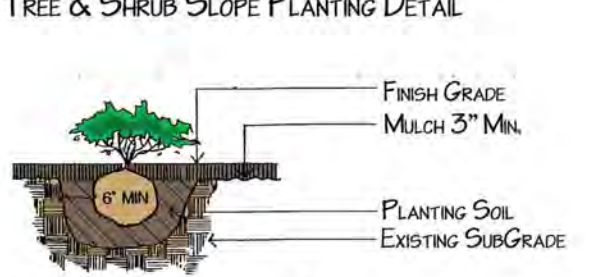
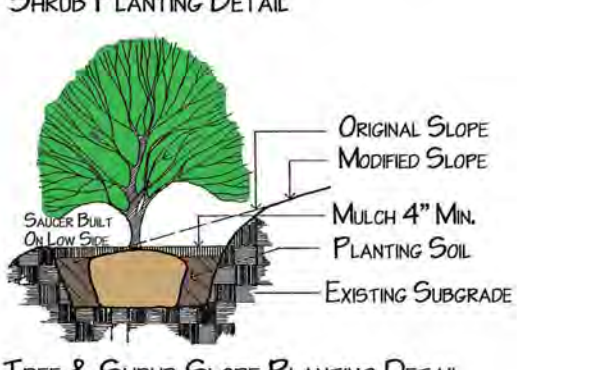
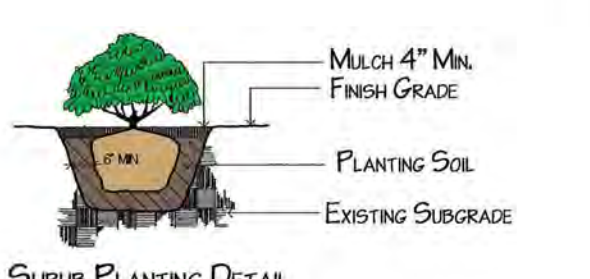
Total Number of Points Provided = 2,465

### PLANTING NOTES:

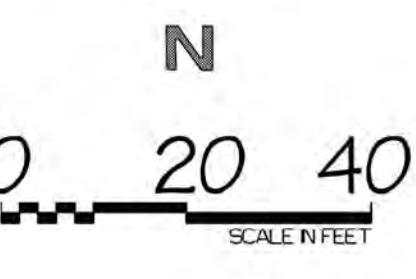
- CONTRACTOR SHALL VERIFY LOCATION OF ALL ON-SITE UTILITIES PRIOR TO COMMENCING ANY WORK ON SITE. WISCONSIN STATUTE 182.0715 REQUIRES THREE WORK DAYS NOTICE BEFORE YOU EXCAVATE. CALL DIGGERS HOTLINE AT 1-800-242-8511.
- SUPPLY AND INSTALL ALL WISCONSIN GROWN NURSERY STOCK. GUARANTEE ALL STOCK FOR A PERIOD OF ONE YEAR. ALL PLANTING MATERIAL IS TO MEET AMERICAN STANDARDS FOR NURSERY STOCK ANSI Z60.1-2004. ALL PLANT MATERIAL IS TO BE PLANTED IMMEDIATELY AFTER UNLOADING ON SITE. PLANT TYPES, SIZES, AND QUANTITIES ARE ACCORDING TO THE PROPOSED PLANS. IF ANY DISCREPANCIES ARE PRESENT BETWEEN PLANT LEGEND AND GRAPHIC DEPICTION, GRAPHICALLY DEPICTED QUANTITIES SHALL HOLD PRECEDENCE. ANY POTENTIAL PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING.
- ACTUAL LOCATIONS OF PLANT MATERIAL ARE SUBJECT TO FINAL SITE LAYOUT AND CONDITIONS AND MAY BE ADJUSTED ACCORDINGLY.
- ALL DECIDUOUS TREES SHALL BE GUYED AND STAKED ACCORDINGLY AS PER PLANTING DETAILS.
- ALL PLANTS ARE TO BE BACKFILLED WITH A 50/50 MIX OF PLANT STARTER AND TOPSOIL BLEND AND IS TO BE FREE OF ROOTS, ROCKS LARGER THAN 1" IN DIAMETER, SUBSOIL DEBRIS, AND WEEDS.
- OPEN AND REMOVE THE TOP BURLAP AND TWINE OR STRING FROM ALL BALLED AND BURLAPPED PLANTS AND GET ALL PLANTS AT FINISH GRADE.
- SUPPLY AND INSTALL 3"-4" OF SHREDDED HARDWOOD BARK MULCH IN ALL PLANT BEDS TREATED WITH A GRANULAR PRE-EMERGENT HERBICIDE PRIOR TO PLACING MULCH. BURLAP AND INSTALL STEEL EDGING (3/16" x 4" SIZE) WHERE ALL PLANT BEDS ADJOIN TURF AREAS. SUPPLY AND INSTALL ACCORDING TO THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. TYPE TO BE APPROVED BY OWNER.
- SUPPLY AND INSTALL 3"-4" OF SHREDDED HARDWOOD BARK MULCH 1'-0" PAST THE DRIPLINE OF ALL INDIVIDUAL TREES. DO NOT PLACE MULCH AGAINST TREE TRUNK OR ROOT FLARE AT TREE BASE.
- ALL TURF AREAS SHALL BE FINE GRADED, REMOVING ALL SURFACE STONES 1" OR LARGER. APPLY A STARTER FERTILIZER AT THE RECOMMENDED RATE IN ALL TURF AREAS. ALL TURF AREAS SHALL BE SODDED WITH A KENTUCKY BLUEGRASS BLEND SOD, INSTALLED IN A STAGGERED JOINT LAYING FASHION. ALL SODDED AREAS SHALL BE WATERED IMMEDIATELY AFTER INSTALLATION AND SATURATED TO A DEPTH OF 3".

### GENERAL NOTES:

- REFER TO GRADING AND CIVIL PLANS FOR RETAINING WALLS.
- SUPPLY AND INSTALL A DESIGN/BUILD IRRIGATION SYSTEM FOR ALL LANDSCAPED AREAS. CONTRACTOR TO PROVIDE CAD SHOP DRAWINGS AND ALL PRODUCT LITERATURE SUBMITTALS PRIOR TO FINAL APPROVAL. AS-BUILT DRAWINGS, MANUALS, AND WARRANTIES SHALL BE PROVIDED TO THE OWNER UPON PROJECT COMPLETION.
- THE OWNER IS RESPONSIBLE FOR ALL ON-GOING MAINTENANCE OF LANDSCAPING ON THE SITE. ALL PLANTING BEDS SHALL BE KEPT FREE OF WEEDS, ANY PLANT MATERIAL THAT HAS DIED SHALL BE REPLACED NO LATER THAN THE UPCOMING YEAR 1. ANY PLANT MATERIAL THAT HAS DIED DURING THE FIRST YEAR WARRANTY PERIOD SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST.



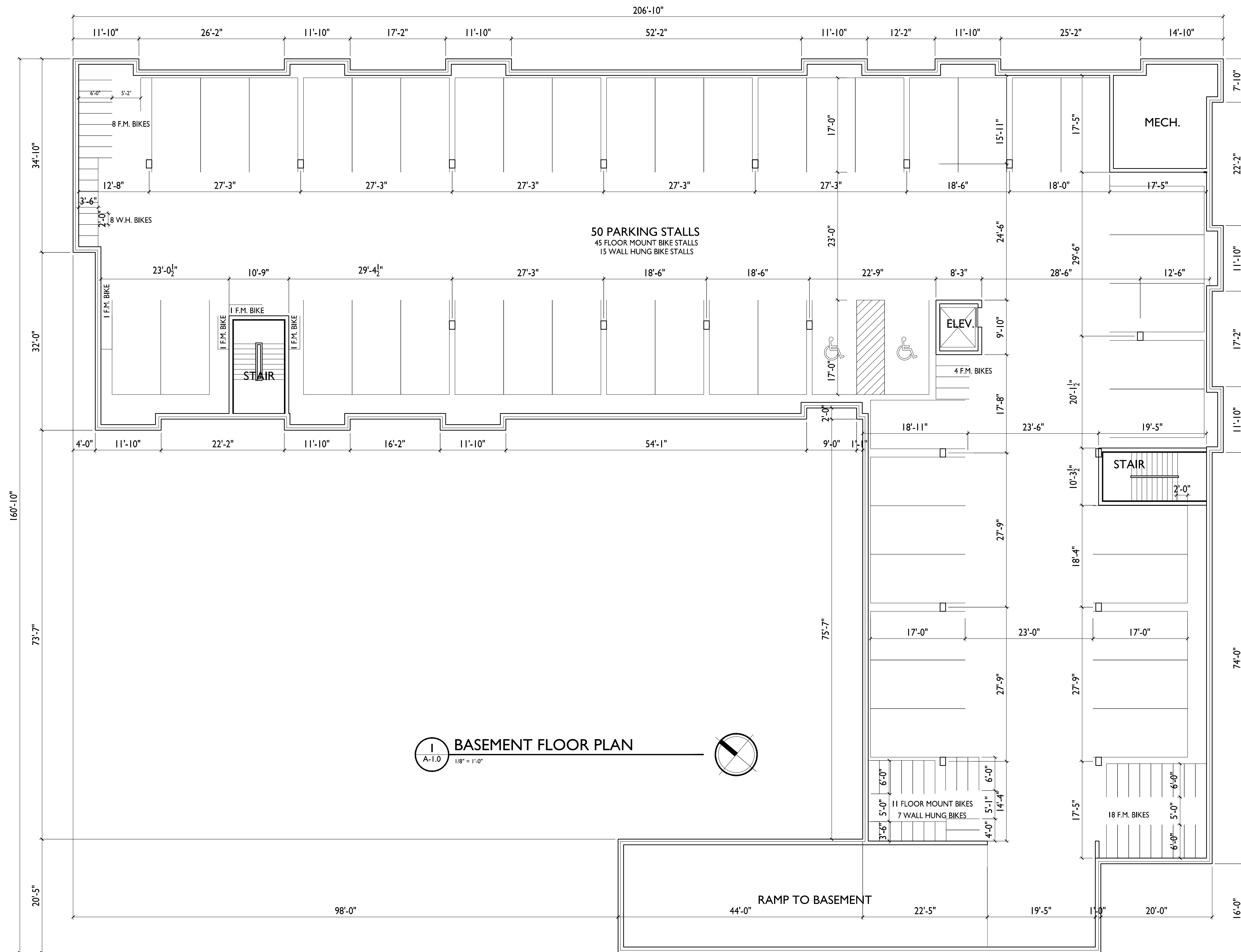
DECIDUOUS TREE PLANTING DETAIL  
 TYPICAL INSTALLATION - NOT TO SCALE



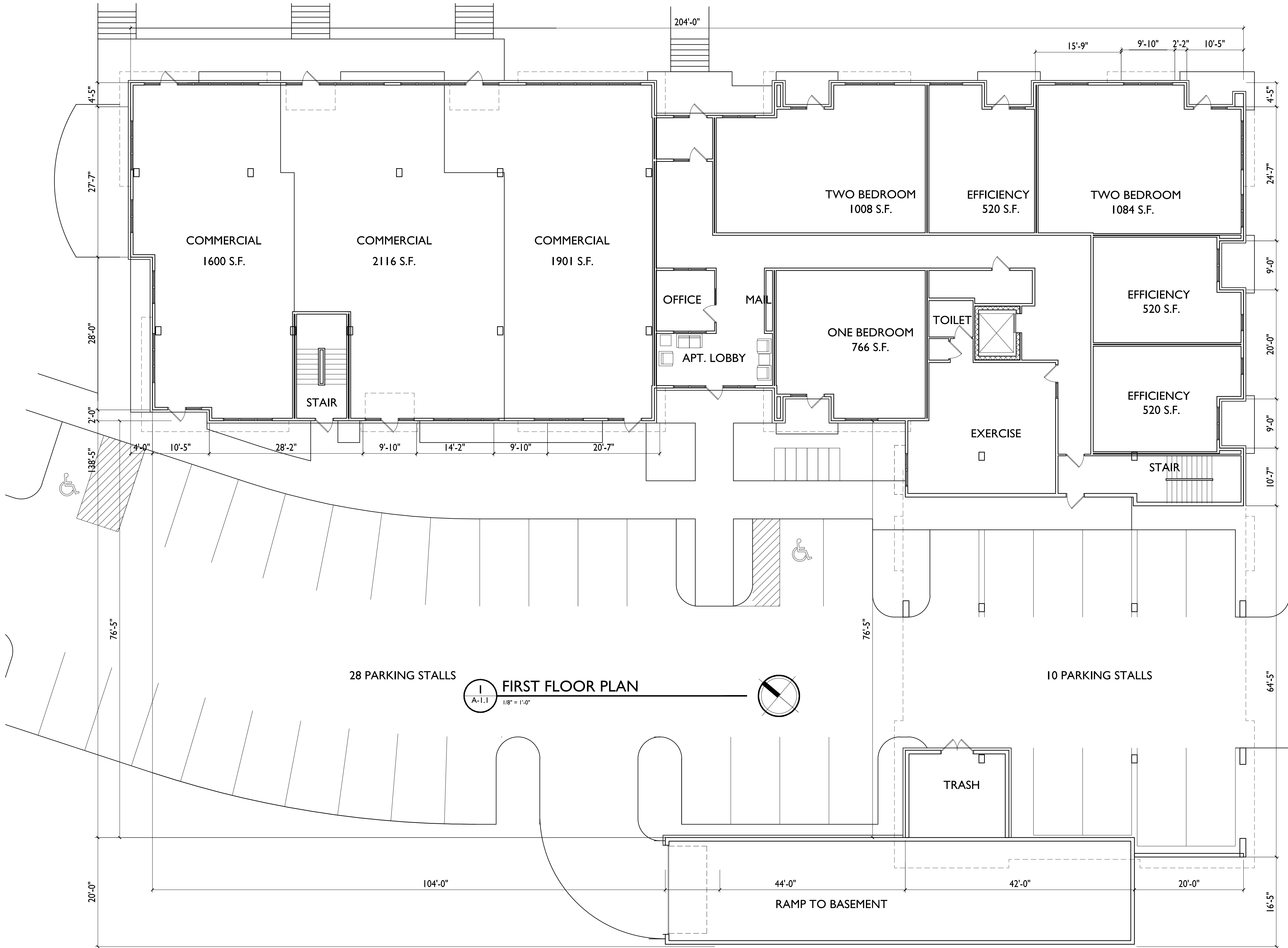
Digitally signed by CHARLES D WILLIAMS  
 Date: 2018.07.17 20:14:37 -05'00'

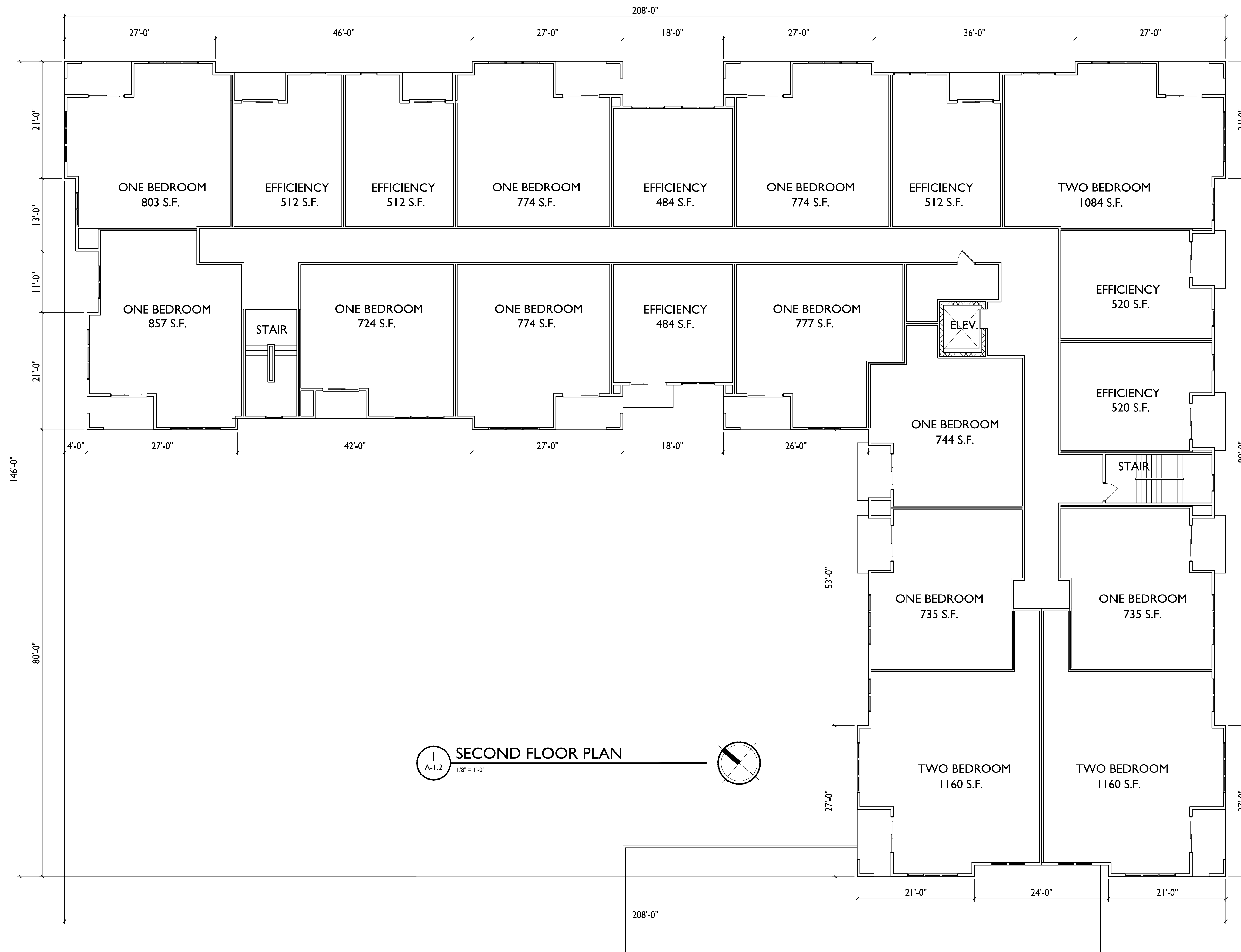
Prepared per CITY OF MADISON ZONING CODE SECTION 28.142-LANDSCAPING & SCREENING REQUIREMENTS





**BASEMENT FLOOR PLAN**  
A-1.0 1/8" = 1'-0"





ISSUED  
 Issued for Land Use & UDC - September 5, 2018

PROJECT TITLE  
**Mixed-Use  
 Development**

5535 University Ave.  
 Madison, WI  
 SHEET TITLE  
**Second Floor Plan**

SHEET NUMBER

**A-1.2**

PROJECT NO. **1735**  
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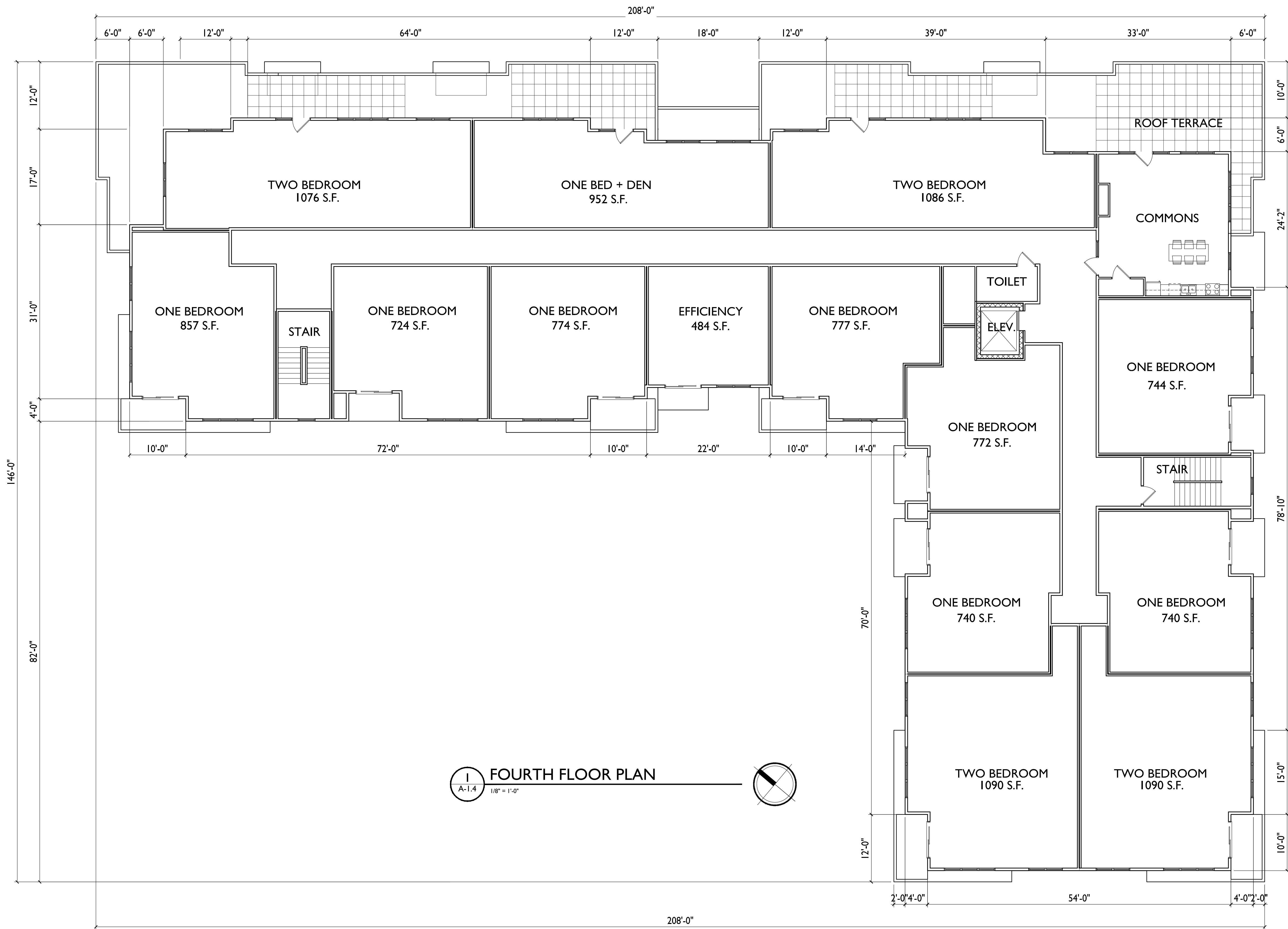
ISSUED  
 Issued for Land Use & UDC - September 5, 2018

PROJECT TITLE  
**Mixed-Use  
 Development**

5535 University Ave.  
 Madison, WI  
 SHEET TITLE  
**Third Floor Plan**

SHEET NUMBER

**A-1.3**



**1** FOURTH FLOOR PLAN  
 A-1.4 1/8" = 1'-0"

ISSUED  
 Issued for Land Use & UDC - September 5, 2018

PROJECT TITLE  
**Mixed-Use  
 Development**

5535 University Ave.  
 Madison, WI  
 SHEET TITLE  
**Fourth Floor Plan**



NORTH ELEVATION - ALONG UNIVERSITY AVE.



SOUTH ELEVATION

ISSUED  
 Issued for Land Use & UDC - September 5, 2018

PROJECT TITLE

SHEET TITLE

Exterior  
 Elevations

SHEET NUMBER

**A-2.1**

PROJECT NUMBER 1735

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EAST ELEVATION



WEST ELEVATION - ALONG CAPITAL AVE.

ISSUED  
Issued for Land Use & UDC - September 5, 2018

PROJECT TITLE

SHEET TITLE

Exterior  
Elevations

SHEET NUMBER

A-2.2

PROJECT NUMBER 1735

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Exterior Material Set

1	BALCONY - Metal-SW7026 GRIFFIN
2	BRICK VENEER - METAL-SW7026 GRIFFIN
3	PRECAST - ROCKFAST-WHEATSTONE
4	HORIZONTAL SIDING & TRIM - COMPOSITE-MED CHARCOAL
5	HORIZONTAL SIDING & TRIM @ BAYS - COMPOSITE-CEDAR
6	WINDOWS - ANDERSON-CANVAS
7	RAILING - ALUMINUM-DARK BRONZE
9	BUILDING ENTRANCES - ALUMINUM STOREFRONT-ARCTIS SILVER



EAST ELEVATION



WEST ELEVATION - ALONG CAPITAL AVE.



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PROJECT TITLE

SHEET TITLE

Exterior Elevations

SHEET NUMBER

A-2.3

PROJECT NUMBER 1735

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Exterior Material Set

1	BALCONY - Metal-SW7026 GRIFFIN
2	BRICK VENEER - METAL-SW7026 GRIFFIN
3	PRECAST - ROCKFAST-WHEATSTONE
4	HORIZONTAL SIDING & TRIM - COMPOSITE-MED CHARCOAL
5	HORIZONATAL SIDING & TRIM @ BAYS - COMPOSITE-CEDAR
6	WINDOWS - ANDERSON-CANVAS
7	RAILING - ALUMINUM-DARK BRONZE
9	BUILDING ENTRANCES - ALUMINUM STOREFRONT-ARCTIS SILVER



NORTH ELEVATION - ALONG UNIVERSITY AVE.



SOUTH ELEVATION

ISSUED

Issued for Land Use and UDC - September 5, 2018

PROJECT TITLE

SHEET TITLE

Exterior Elevations

SHEET NUMBER

A-2.4

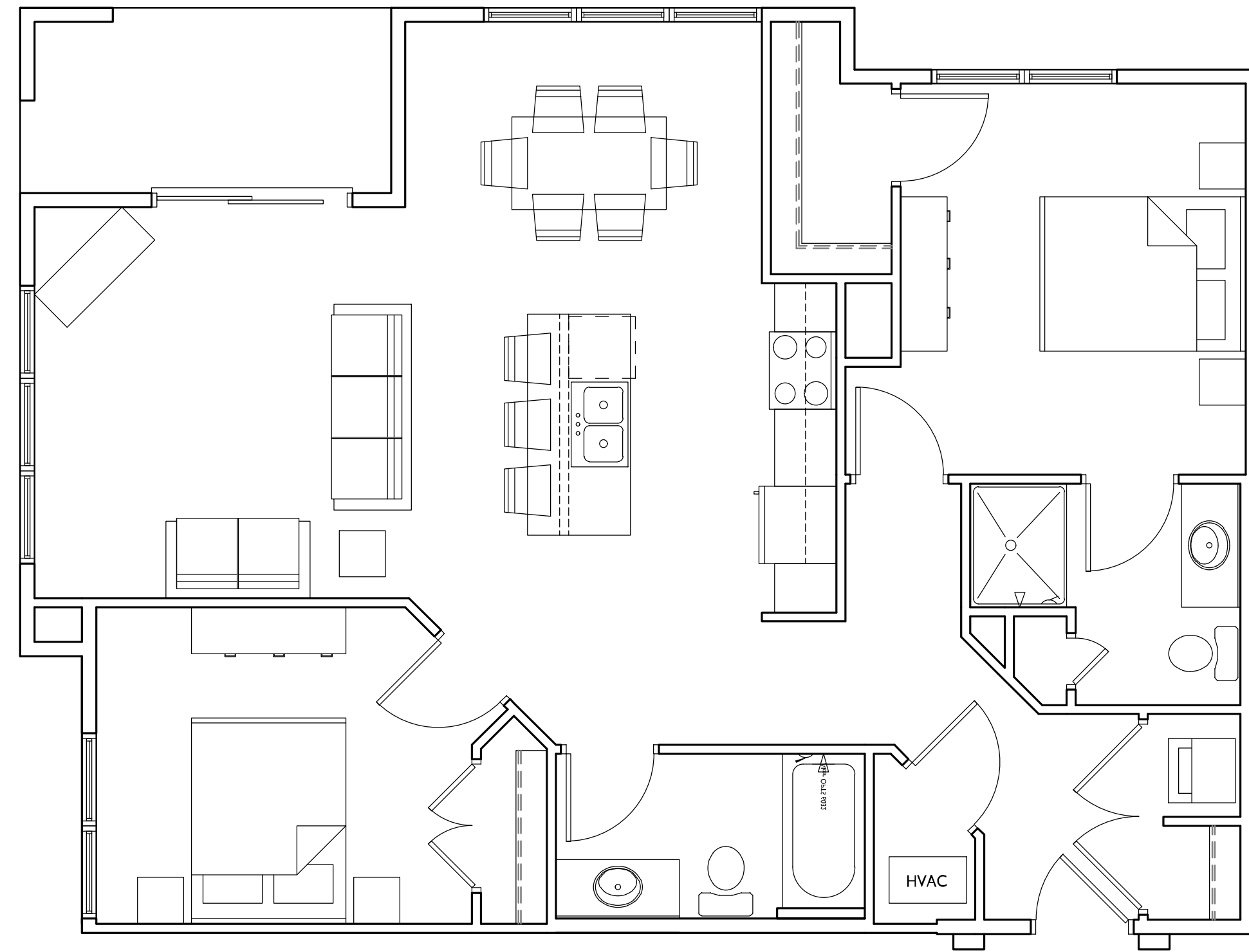
PROJECT NUMBER 1735

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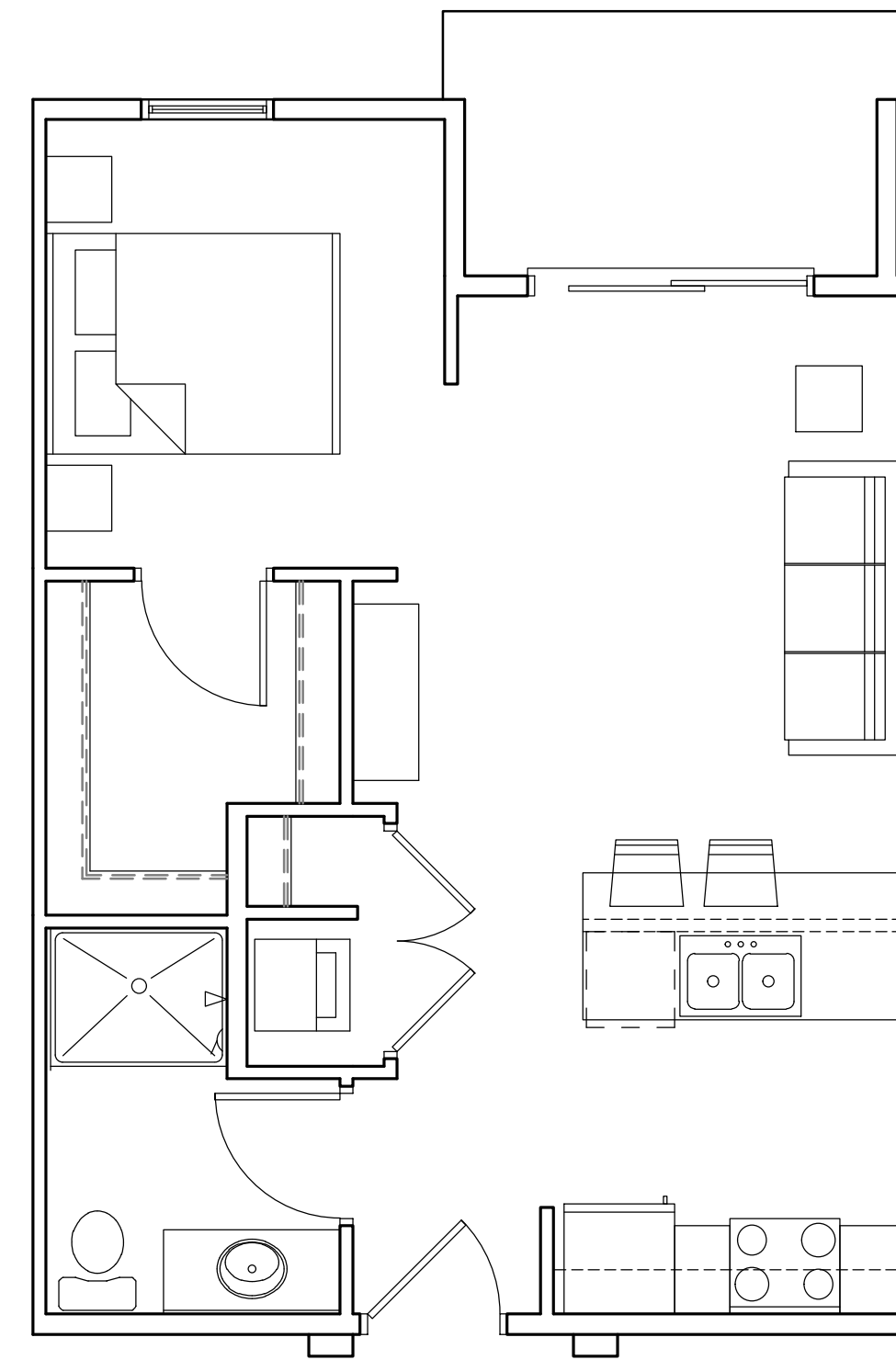


**knothe • bruce**  
ARCHITECTS

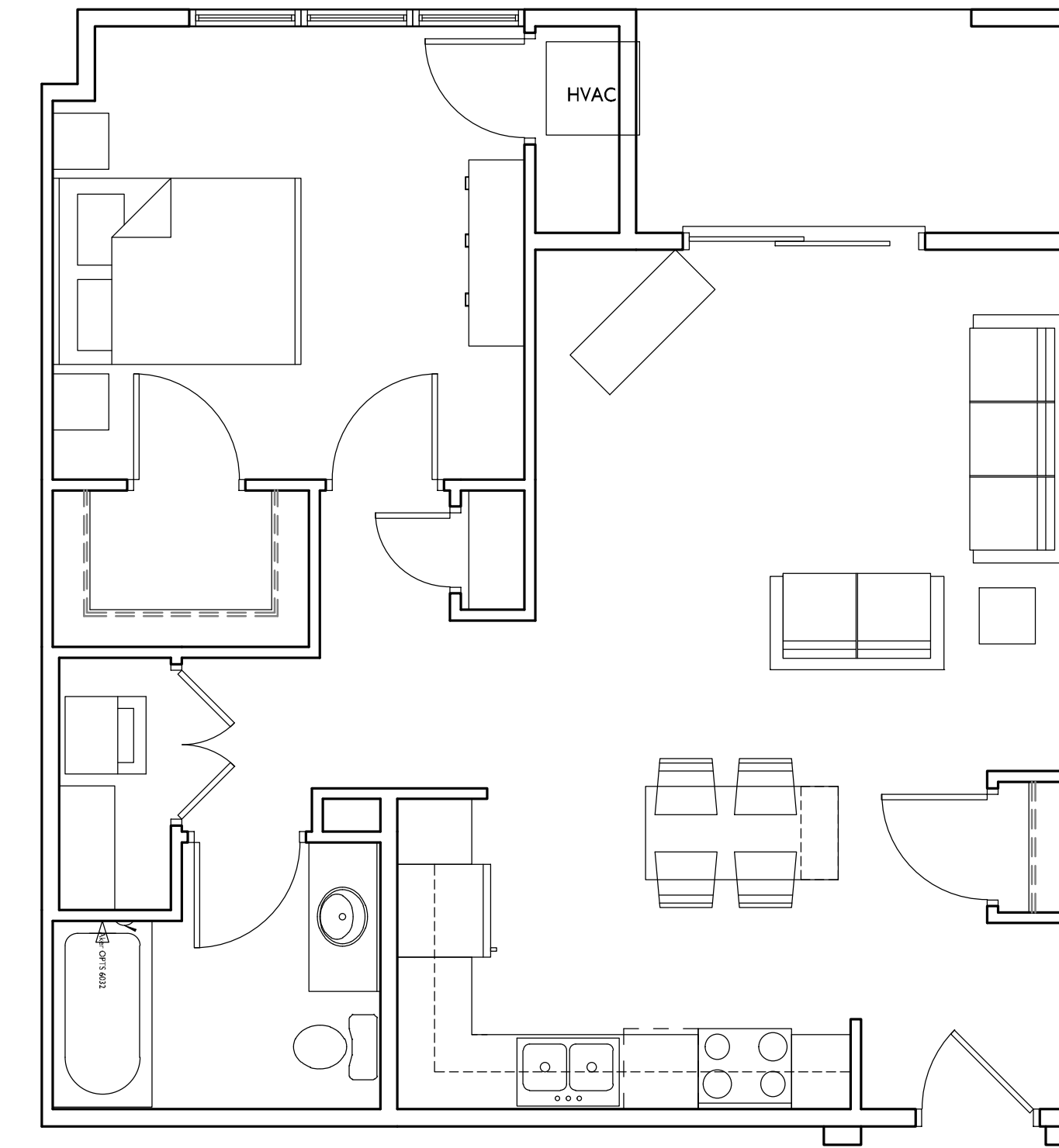
Phone: 7601 University Ave, Ste 201  
608.836.3690 Middleton, WI 53562



**TWO BEDROOM**  
1084 S.F.



**EFFICIENCY**  
520 S.F.



**ONE BEDROOM**  
766 S.F.

ISSUED  
Issued for Land Use & UDC - September 5, 2018

PROJECT TITLE  
**Mixed-Use  
Development**

5535 University Ave.  
Madison, WI  
SHEET TITLE  
**Typical Unit Plans**

SHEET NUMBER

**A-5.1**

PROJECT NO. **1735**  
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**TYPICAL UNIT PLANS**  
1/4" = 1'-0"



















