URBAN DESIGN COMMISSION APPLICATION CITY OF MADISON

This form may also be completed online at:
http://www.cityofmadison.com/planning/documents/UDCapplication.pdf

215 Martin Luther King Jr. Blvd; Room LL-100
PO Box 2985; Madison, Wisconsin 53701-2985
Phone: 608.266.4635 | Facsimile: 608.267.8739

Please complete all sections of the application, including the desired meeting date and the type of action requested.

Date Submitted: 6/13/17	☐ **Informational Presentation**
UDC Meeting Date: 7/12/17	☐ **Initial Approval**
Combined Schedule Plan Commission Date (if applicable):	☒ **Final Approval**

1. Project Address: 3201 Dairy Drive, Madison, WI 53703
Project Title (if any): Madison Fire Department - Fire Station 14

2. This is an application for (Check all that apply to this UDC application):

AGENDA ITEM # ____
LEGISTAR # 47159
ALD. DIST. 4

☒ **New Development** ☐ **Alteration to an Existing or Previously-Approved Development**

A. Project Type:

☐ **Project in an Urban Design District*** (public hearing-$300 fee)
☐ **Project in the Downtown Core District (DC) or Urban Mixed-Use District (UMX)** ($150 fee, Minor Exterior Alterations)
☒ **Suburban Employment Center (SEC) or 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 Planned Residential Complex**

B. Signage:

☐ **Comprehensive Design Review*** (public hearing-$300 fee) ☐ **Street Graphics Variance*** (public hearing-$300 fee)
☐ **Signage Exception(s) in an Urban Design District** (public hearing-$300 fee)

C. Other:

☐ **Please specify:** ____

3. Applicant, Agent & Property Owner Information:

Applicant Name: Tate Walker
Company: OPN Architects
Street Address: 301 N Broom St , Madison WI 53703
City/State: Madison, WI Zip: 53703
Telephone: (608)819-0844 Fax:(___) ____
Email: twalker@opnarchitects.com

Project Contact Person: Same as Applicant
Company: ____
Street Address: ____
City/State: ____ Zip: ____
Telephone:(___) ____ Fax:(___) ____
Email: ____

Project Owner (if not applicant) : Assistant Chief Clayton Christenson, Madison Fire Department
Street Address: 316 W Dayton St , Madison WI 53703
City/State: Madison, WI Zip: 53703
Telephone: (608)266-5956 Fax:(___) ____
Email: CChristenson@cityofmadison.com

4. Applicant Declarations:

A. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with Kevin Firchow/Jessica Vaughn (name of staff person) on 5/8/17 (date of meeting).

B. 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.

Name of Applicant Tate Walker
Relationship to Property Architect
Authorized Signature Tate Walker
Date 6/12/17

PRINTED: 6/14/2017 6:58:55 AM

MADISON FIRE DEPARTMENT
FIRE STATION 14

3201 DAIRY DRIVE
MADISON, WI 53703

PROJECT NARRATIVE / LETTER OF INTENT

Madison Fire Department is proposing a new fire station on the southeast side of the city located at 3201 Dairy Drive. The site encompasses three parcels (Lot 34, 35 and 36) east of Dairy Drive and north of Femrite Drive. The parcels are zoned SE (Suburban Employment District) and the gross area of the combined parcels is 481,949 square feet (11.06 acres). There is are no existing buildings on the proposed site. However, the site has been previously developed. An asphalt driveway off Femrite and gravel roads and concrete pads from a previous business remain on site. A major 50-foot wide gas utility easement runs east-west through the southern portion of Lots 34 and 35. The site is gradual as it generally slopes east and north toward the adjacent wetland. The fire station is 20,300 square feet. The building design includes (6) pull-through apparatus bays with the intent to allocate space for indoor training and physical agility testing. The public portion of the building consists of a large break room / vestibule space, a 1,100 square foot community room and two small meeting rooms. This intent of the public spaces is to provide a variety spaces that can serve the community as well as the station. A restroom core, turnout gear, EMS storage and laundry rooms are the central core of the space. The living quarters are located in the back (east side) of the station. Offices, Dormitories, a fitness room and a large great room that combines a kitchen and living room. The hours of operation are 24 hours per day, 7 days per week. See site plan and landscape plan for proposed parking, bike parking and open space calculations. This project is 100% publicly subsidized.

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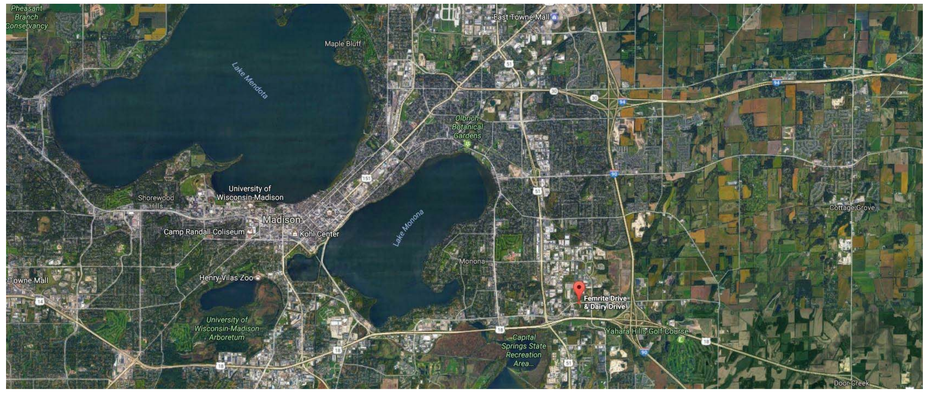
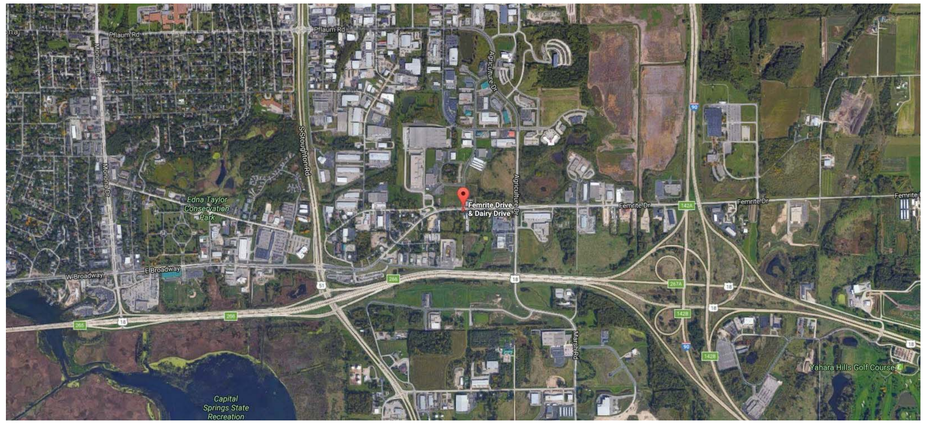
E201	CUT SHEET
E202	CUT SHEET
E203	CUT SHEET
E204	CUT SHEET
E205	CUT SHEET



LOCATOR MAP - PROJECT LOCATION - CITY SCALE
NOT TO SCALE

RENDER
NOT TO SCALE



LOCATOR MAP - PROJECT LOCATION - NEIGHBORHOOD SCALE
NOT TO SCALE

PRELIMINARY. NOT FOR CONSTRUCTION.

OPN ARCHITECTS

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Owner
City of Madison Fire Department
314 W. Dayton St
Madison, WI 53703

Project
Madison Fire Station 14
3201 Dairy Drive
Madison WI, 53718

Civil Engineer
Snyder & Associates, Inc
5010 Voges Rd
Madison, WI 53718
P. 608-838-0444

Structural Engineer
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1800 Deming Way #200
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P. 608-223-9600

Mechanical Engineer
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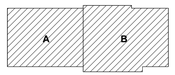
Key Plan



Sheet Issue Date
UDC FINAL - 06/13/17

Revision	Date
DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

SCHEMATIC DESIGN
NOT FOR CONSTRUCTION

Drawing
COVER

OPN Project No. 17207000

A000

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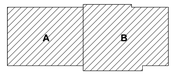

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UDC INFORMATIONAL	05/24/17

SCHEMATIC DESIGN
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Drawing

RENDER

OPN Project No. 17207000

A001

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SITE PHOTOGRAPH

SITE PHOTOGRAPH

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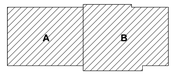

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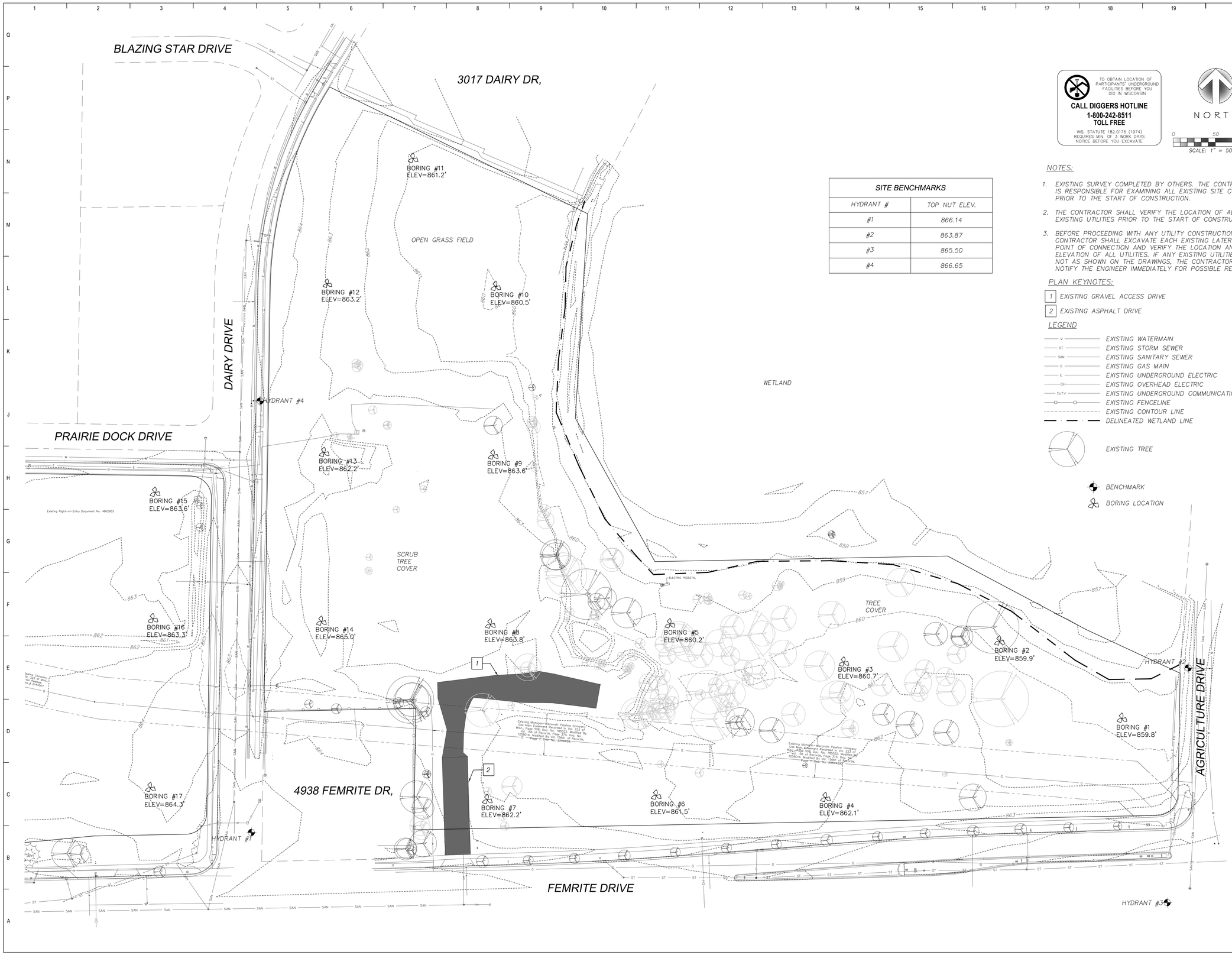
SCHEMATIC DESIGN
NOT FOR CONSTRUCTION

Drawing

SITE CONTEXT AND CHARACTER SKETCHES

OPN Project No. 17207000

A002



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NORTH

0 50 100
SCALE: 1" = 50'

SITE BENCHMARKS	
HYDRANT #	TOP NUT ELEV.
#1	866.14
#2	863.87
#3	865.50
#4	866.65

NOTES:

1. EXISTING SURVEY COMPLETED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL EXISTING SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
3. BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES. IF ANY EXISTING UTILITIES ARE NOT AS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR POSSIBLE REDESIGN.

PLAN KEYNOTES:

1 EXISTING GRAVEL ACCESS DRIVE
2 EXISTING ASPHALT DRIVE

LEGEND

- W — EXISTING WATERMAIN
- ST — EXISTING STORM SEWER
- SAN — EXISTING SANITARY SEWER
- G — EXISTING GAS MAIN
- E — EXISTING UNDERGROUND ELECTRIC
- OH — EXISTING OVERHEAD ELECTRIC
- CaTV — EXISTING UNDERGROUND COMMUNICATIONS
- EXISTING FENCELINE
- EXISTING CONTOUR LINE
- DELINEATED WETLAND LINE
- EXISTING TREE
- BENCHMARK
- BORING LOCATION

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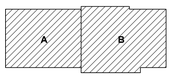
Key Plan



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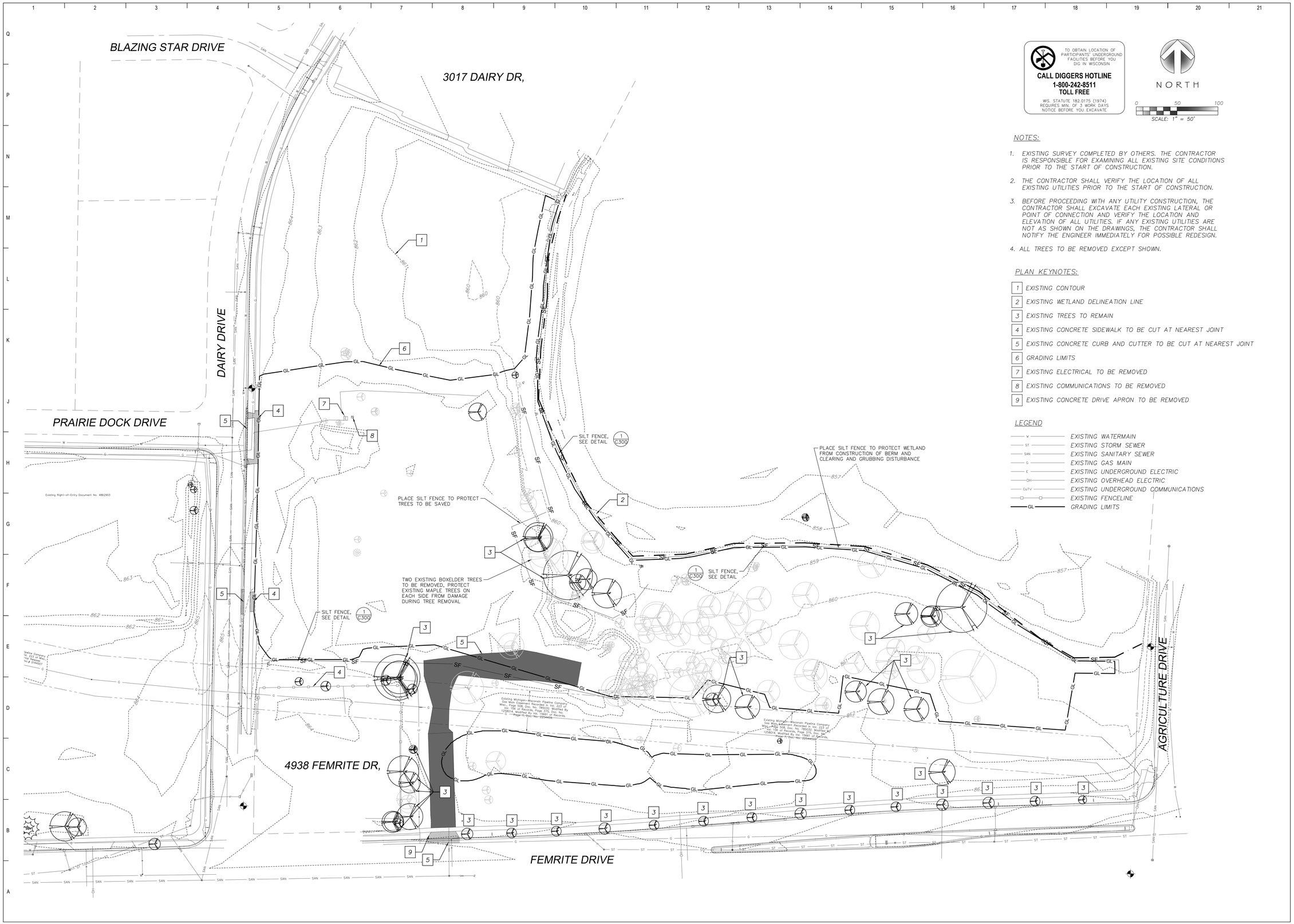
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

PRE - DESIGN
NOT FOR CONSTRUCTION

Drawing
Existing Site Plan

OPN Project No. 17207000

C100



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NORTH

0 50 100
SCALE: 1" = 50'

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4. ALL TREES TO BE REMOVED EXCEPT SHOWN.

PLAN KEYNOTES:

1. EXISTING CONTOUR
2. EXISTING WETLAND DELINEATION LINE
3. EXISTING TREES TO REMAIN
4. EXISTING CONCRETE SIDEWALK TO BE CUT AT NEAREST JOINT
5. EXISTING CONCRETE CURB AND CUTTER TO BE CUT AT NEAREST JOINT
6. GRADING LIMITS
7. EXISTING ELECTRICAL TO BE REMOVED
8. EXISTING COMMUNICATIONS TO BE REMOVED
9. EXISTING CONCRETE DRIVE APRON TO BE REMOVED

LEGEND

W	EXISTING WATERMAIN
ST	EXISTING STORM SEWER
SAN	EXISTING SANITARY SEWER
G	EXISTING GAS MAIN
E	EXISTING UNDERGROUND ELECTRIC
OH	EXISTING OVERHEAD ELECTRIC
CaTV	EXISTING UNDERGROUND COMMUNICATIONS
	EXISTING FENCELINE
GL	GRADING LIMITS

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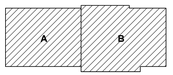
Key Plan



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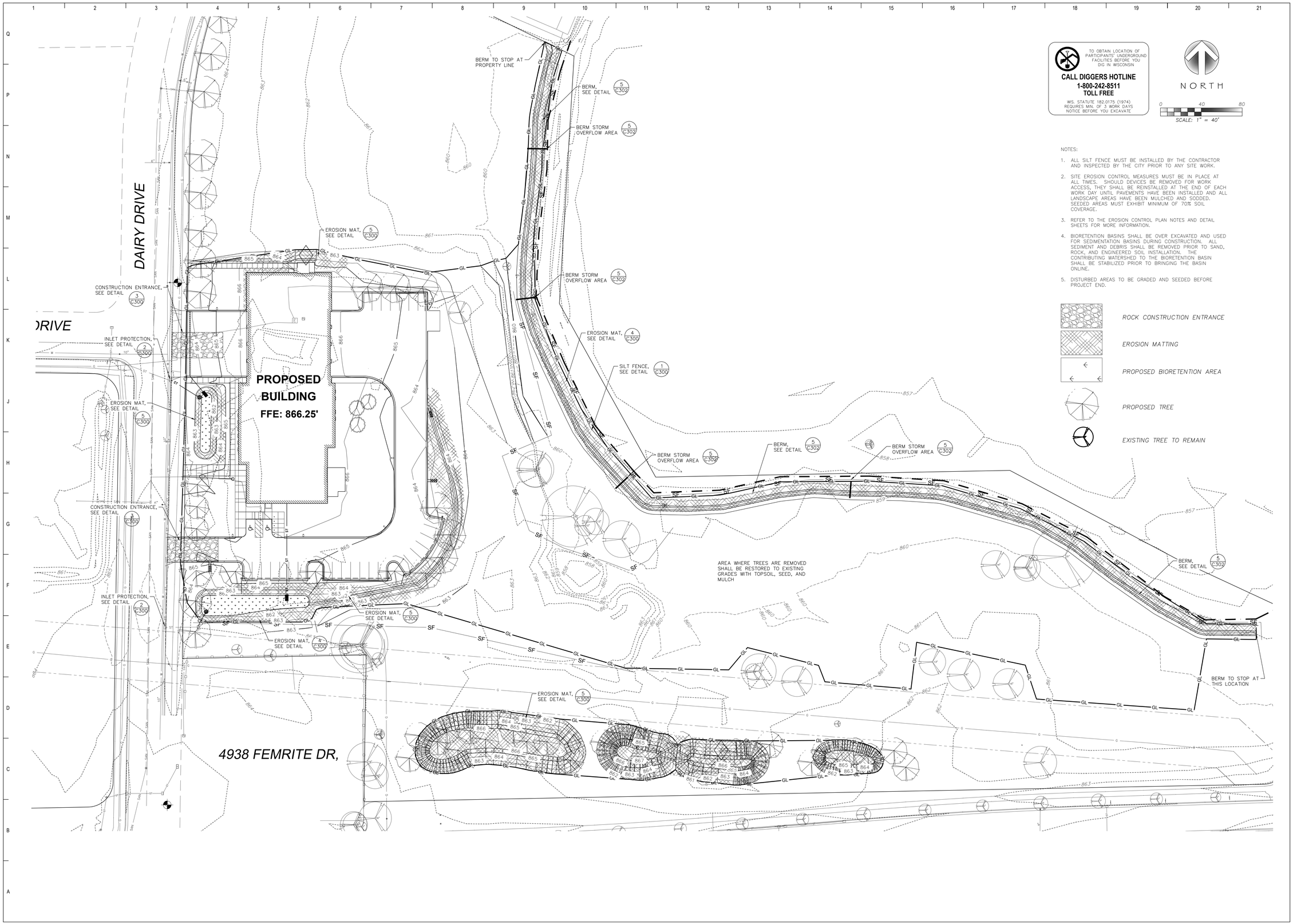
PRE - DESIGN
NOT FOR CONSTRUCTION

Drawing
Demolition Plan

OPN Project No. 17207000

C101



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TOLL FREE

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NORTH

0 40 80

SCALE: 1" = 40'

NOTES:

1. ALL SILT FENCE MUST BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY PRIOR TO ANY SITE WORK.
2. SITE EROSION CONTROL MEASURES MUST BE IN PLACE AT ALL TIMES. SHOULD DEVICES BE REMOVED FOR WORK ACCESS, THEY SHALL BE REINSTALLED AT THE END OF EACH WORK DAY UNTIL PAVEMENTS HAVE BEEN INSTALLED AND ALL LANDSCAPE AREAS HAVE BEEN MULCHED AND SODDED. SEEDED AREAS MUST EXHIBIT MINIMUM OF 70% SOIL COVERAGE.
3. REFER TO THE EROSION CONTROL PLAN NOTES AND DETAIL SHEETS FOR MORE INFORMATION.
4. BIORETENTION BASINS SHALL BE OVER EXCAVATED AND USED FOR SEDIMENTATION BASINS DURING CONSTRUCTION. ALL SEDIMENT AND DEBRIS SHALL BE REMOVED PRIOR TO SAND, ROCK, AND ENGINEERED SOIL INSTALLATION. THE CONTRIBUTING WATERSHED TO THE BIORETENTION BASIN SHALL BE STABILIZED PRIOR TO BRINGING THE BASIN ONLINE.
5. DISTURBED AREAS TO BE GRADED AND SEEDED BEFORE PROJECT END.

ROCK CONSTRUCTION ENTRANCE

EROSION MATTING

PROPOSED BIORETENTION AREA

PROPOSED TREE

EXISTING TREE TO REMAIN

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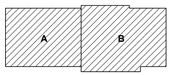

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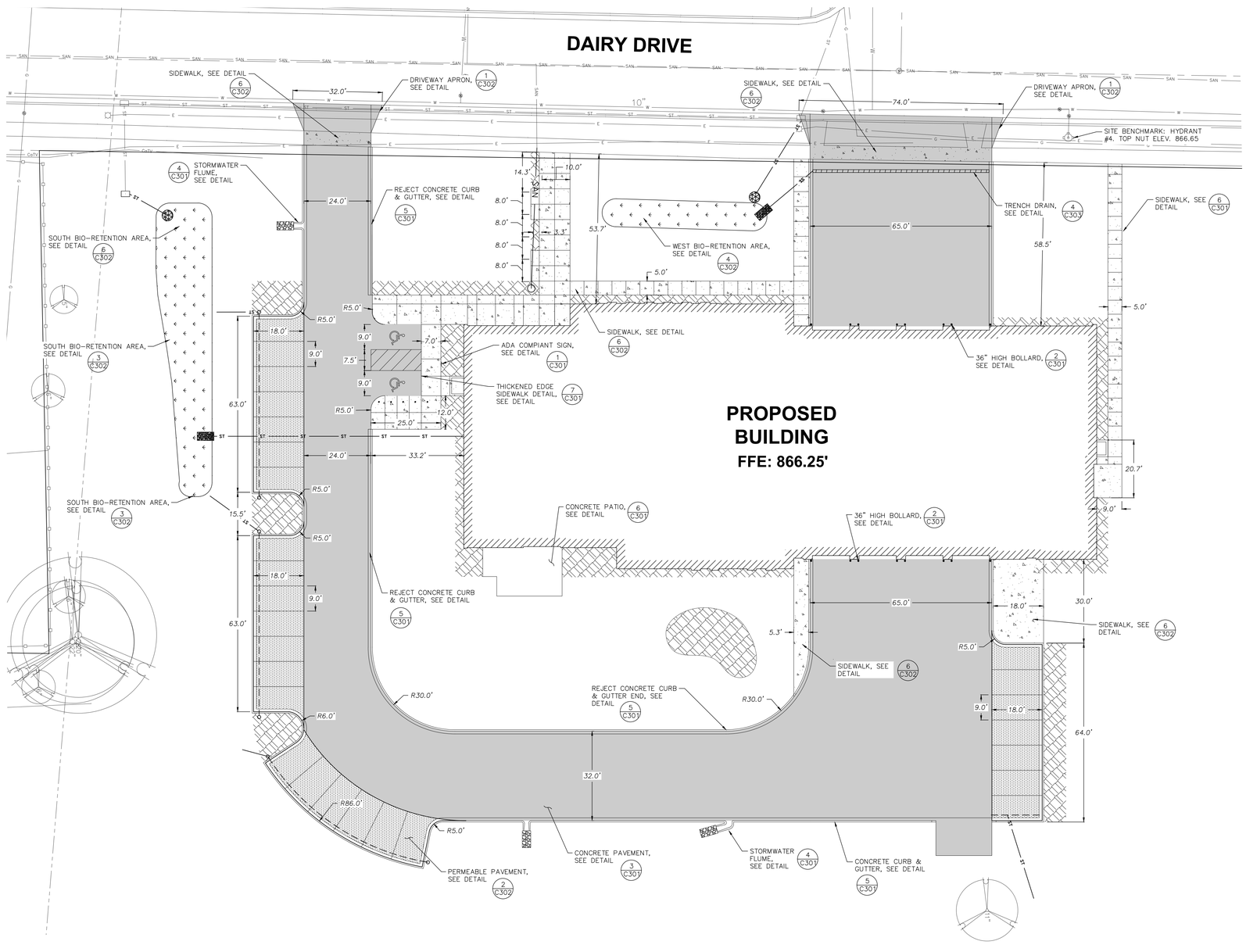
PRE - DESIGN
NOT FOR CONSTRUCTION

Drawing

Overall Grading & Erosion Control Plan

OPN Project No. 17207000

C200



NORTH

0 20 40

SCALE: 1" = 20'

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TOLL FREE

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LEGEND

- PROPOSED CONCRETE SIDEWALK
- PROPOSED CONCRETE PAVEMENT
- PROPOSED BIORETENTION AREA
- PROPOSED PERMEABLE PAVEMENT
- PROPOSED LANDSCAPE AREA
- PROPOSED BUILDING
- PROPOSED TRENCH DRAIN

NOTES:

1. ALL DIMENSIONS ARE FROM FACE OF CURB TO FACE OF CURB.
2. MADISON FIRE STATION 14
   3201 DAIRY DRIVE
   MADISON WI, 53718

SITE DATA

ZONING DISTRICT: SE SUBURBAN EMPLOYMENT DISTRICT

TOTAL SITE AREA: 481,950 SF

PRO. IMPERVIOUS: 45,218 SF
PRO. PERMEABLE PAVEMENT 4,558 SF
PROPOSED GREEN AREA: 427,616 SF

PARKING REQUIREMENTS

PARKING PROVIDED = 29
BICYCLE PARKING PROVIDED = 5

PER CODE, FOR 26-50 TOTAL PARKING STALLS
2 HANDICAP PARKING STALLS MUST BE PROVIDED

2 HANDICAP PARKING STALLS ARE SHOWN ON PLAN

BUILDING SETBACKS
FRONT = NONE
REAR = 20'
SIDE YARD = ONE STORY 5'
TWO STORY 6'
MAX LOT COVERAGE = 85%

OPN ARCHITECTS
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opn@opnarchitects.com

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Owner
City of Madison Fire Department
314 W. Dayton St
Madison, WI 53703

Project
Madison Fire Station 14
3201 Dairy Drive
Madison WI, 53718

Civil Engineer
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5010 Voges Rd
Madison, WI 53718
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Structural Engineer
IMEG
1800 Deming Way #200
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Mechanical Engineer
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Electrical Engineer
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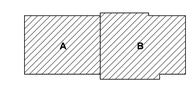
Key Plan



Sheet Issue Date
UDC FINAL - 06/13/17

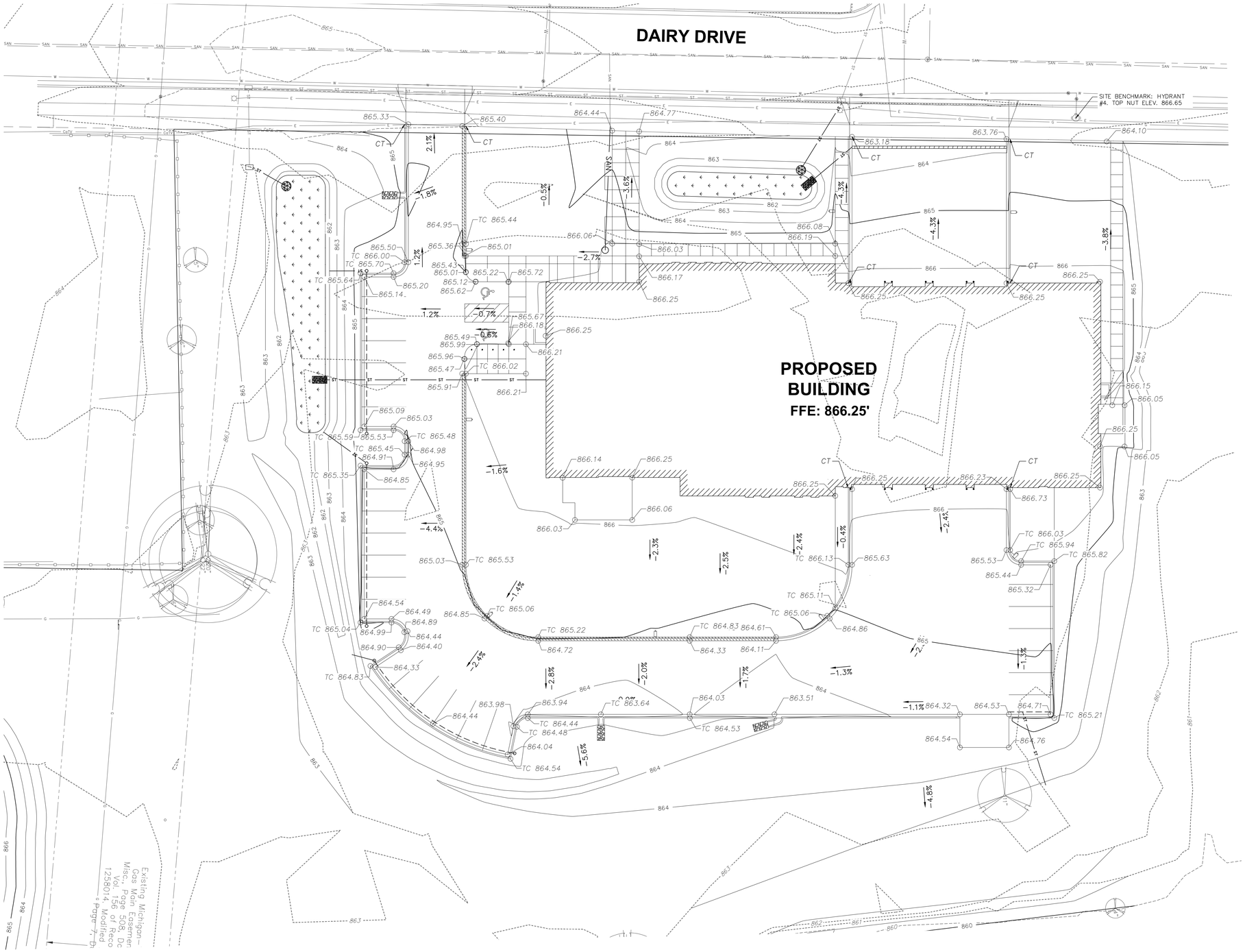
Revision	Date
DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

PRE - DESIGN
NOT FOR CONSTRUCTION

Drawing
Site Plan

OPN Project No. 17207000

C201



NORTH

0 20 40

SCALE: 1" = 20'

NOTES:

1. EXISTING SURVEY COMPLETED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL EXISTING SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
3. BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES. IF ANY EXISTING UTILITIES ARE NOT AS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR POSSIBLE REDESIGN.
4. MADISON FIRE STATION 14
   3201 DAIRY DRIVE
   MADISON WI, 53718

LEGEND

999.99	FLOWLINE ELEVATION
TC 999.99	TOP OF CURB ELEVATION
CT	3' CURB TAPER
HP	HIGH POINTS
	REJECT CURB & GUTTER

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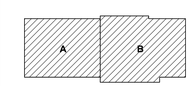

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PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

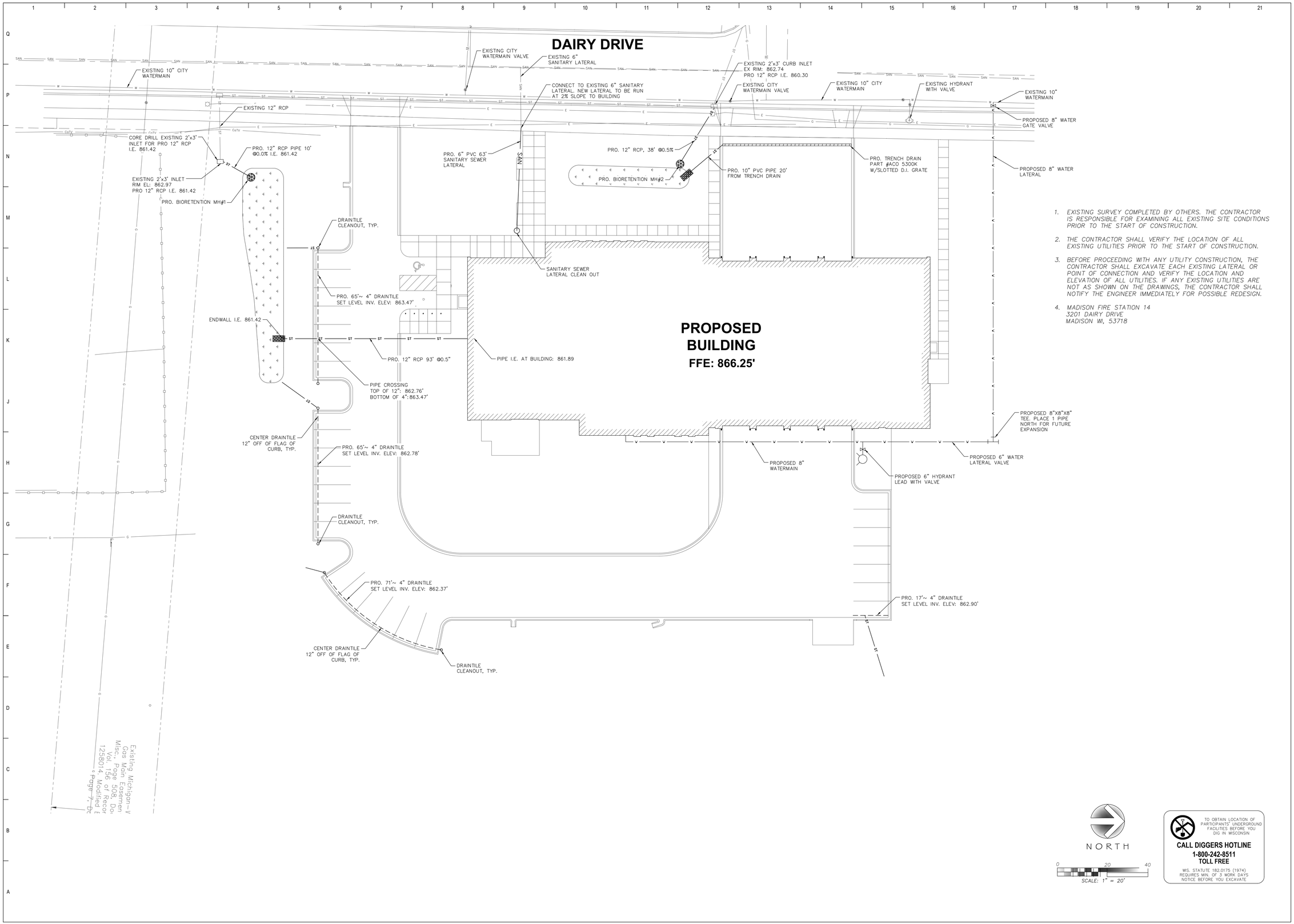
PRE - DESIGN
NOT FOR CONSTRUCTION

Drawing

Site Grading Plan

OPN Project No. 17207000

C202



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4. MADISON FIRE STATION 14
3201 DAIRY DRIVE
MADISON WI, 53718

NORTH

0 20 40
SCALE: 1" = 20'

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

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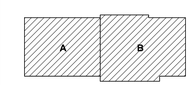

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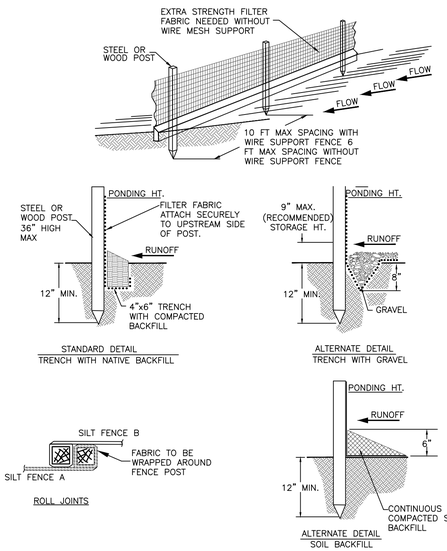
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

PRE - DESIGN
NOT FOR CONSTRUCTION

Drawing
Utility Plan

OPN Project No. 17207000

C203



CONSTRUCTION SPECIFICATIONS

THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. STORAGE HEIGHT SHALL NEVER EXCEED 18".

THE FENCE LINE SHALL FOLLOW THE CONTOUR AS CLOSELY AS POSSIBLE.

IF POSSIBLE, THE FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.

POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.

THE ENDS OF THE FENCE SHALL BE TURNED UPHILL.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.

WHEN STANDARD-STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

THE STANDARD-STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 6 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

THE TRENCH SHALL BE BACKFILLED AND/OR THE SOIL COMPACTED OVER THE TOE OF THE FILTER FABRIC. THE FILTER FABRIC SHALL NOT BE SECURED BY SAND BAGS.

SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME.

SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED, AND ANY SEDIMENT STORED BEHIND THE SILT FENCE HAS BEEN REMOVED.

INSPECTION AND MAINTENANCE

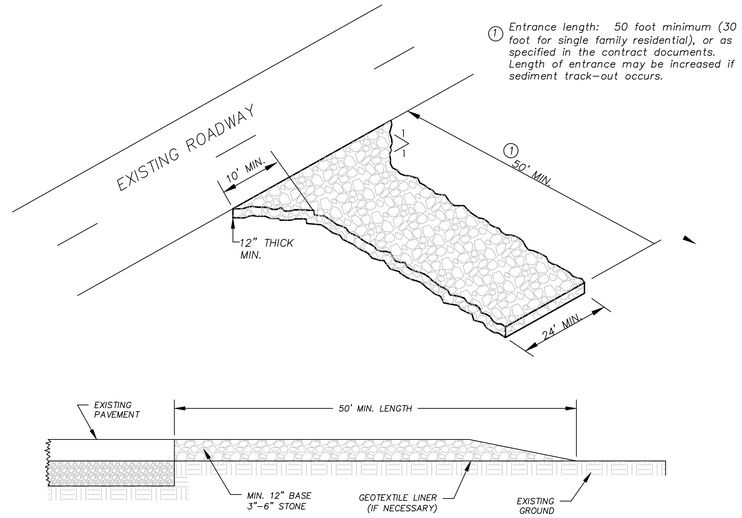
SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT STORM (1" IN 24 HR.). ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 HEIGHT OF THE FENCE OR 9 INCHES MAXIMUM.

THE REMOVED SEDIMENT SHALL BE VEGETATED OR OTHERWISE STABILIZED.

1 / C300 SILT FENCE INSTALLATION DETAILS

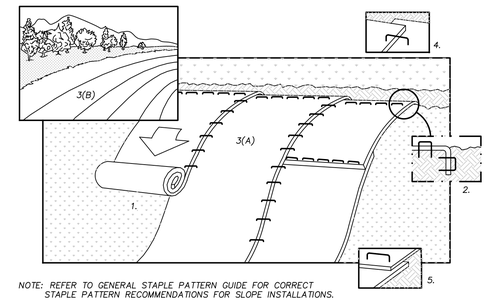
NOT TO SCALE



NOTE: MAINTAIN THE ROCK ENTRANCE TO PREVENT TRACKING ONTO PAVEMENT

3 / C300 ROCK CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

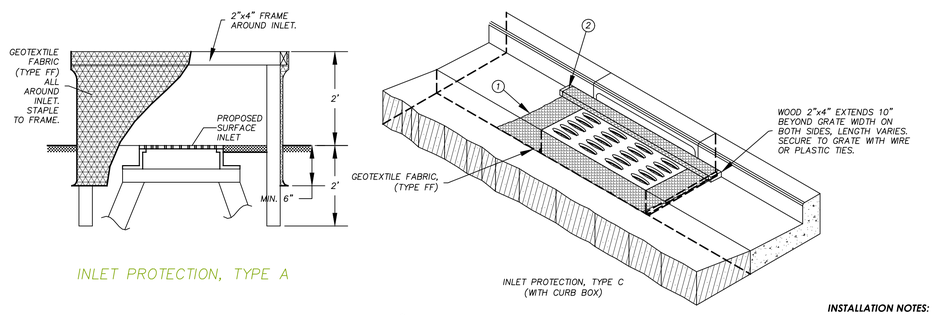


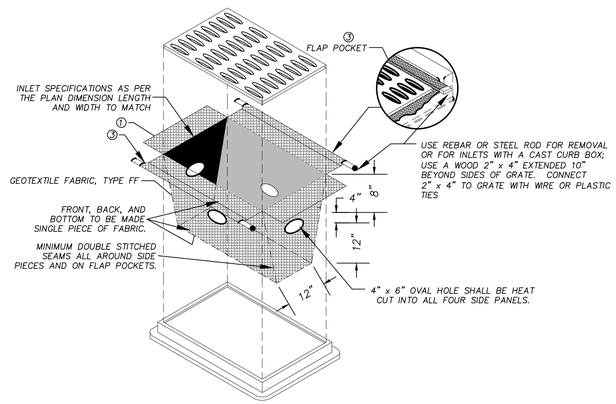
NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

4 / C300 EROSION CONTROL MAT-SLOPE INSTALLATION

NOT TO SCALE





INSTALLATION NOTES:

TYPE C

- TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
- THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

- DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
- THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH 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.

GENERAL NOTES:

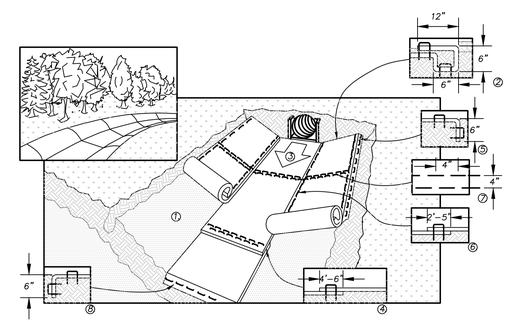
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON WIS DOT PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, ARE 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.

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (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.
3. FLAP POCKET SHALL BE LARGE ENOUGH TO ACCEPT A WOOD 2" x 4".

2 / C300 STORM WATER INLET PROTECTION

NOT TO SCALE



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.
2. 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
3. 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.
4. 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.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE 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.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 4" AND STAPLED.
7. 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.
8. 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.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

5 / C300 EROSION CONTROL MAT-CHANNEL INSTALLATION

NOT TO SCALE

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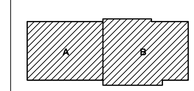

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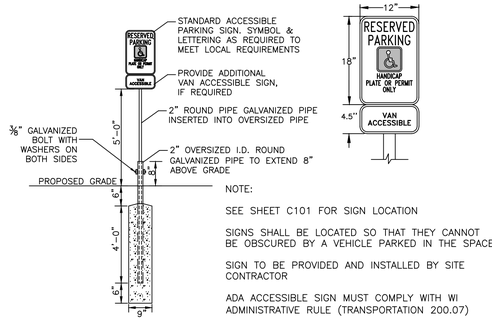
PRE - DESIGN
NOT FOR CONSTRUCTION

Drawing

Erosion Control Details

OPN Project No.17207000

C300



NOTE:

SEE SHEET C101 FOR SIGN LOCATION

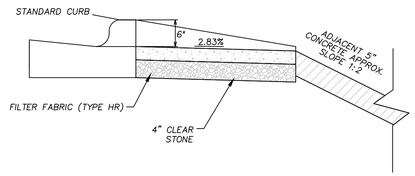
SIGNS SHALL BE LOCATED SO THAT THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE

SIGN TO BE PROVIDED AND INSTALLED BY SITE CONTRACTOR

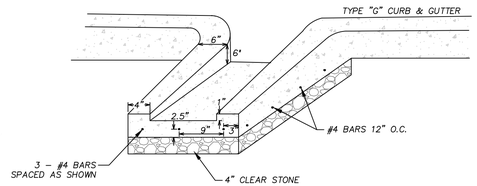
ADA ACCESSIBLE SIGN MUST COMPLY WITH WI ADMINISTRATIVE RULE (TRANSPORTATION 200.07)

1 / C301 ADA ACCESSIBLE SIGNAGE DETAIL
NOT TO SCALE

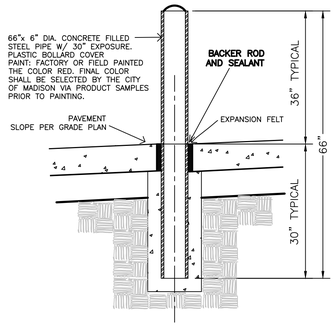
CONCRETE FLUME OPENING DETAIL (NOT TO SCALE)



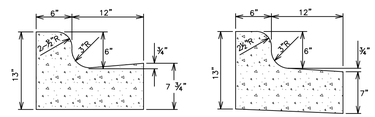
CONCRETE FLUME DETAIL (NOT TO SCALE)



4 / C301 STORMWATER FLUME
NOT TO SCALE



2 / C301 36" HIGH ~ 6" PIPE BOLLARD
NOT TO SCALE



CITY OF MADISON TYPE "G" STANDARD CONCRETE CURB & GUTTER

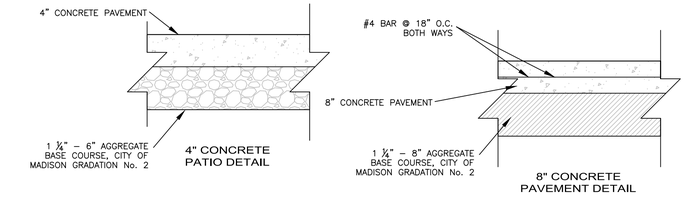
CITY OF MADISON TYPE "D" REJECT CONCRETE CURB & GUTTER

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.

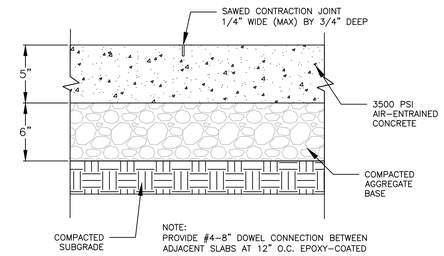
THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 1/2" THICK. IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED STONE THAT IS 6" THICK.

5 / C301 CONCRETE CURB AND GUTTER
NOT TO SCALE

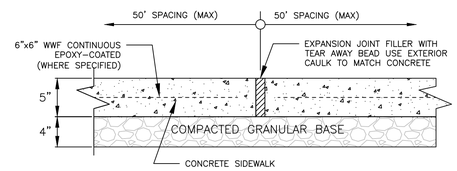


6 / C301 PATIO DETAIL
NOT TO SCALE

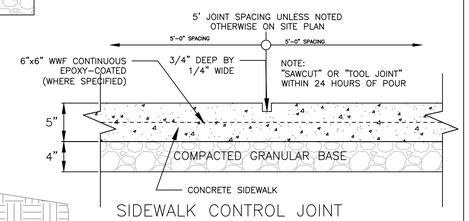
7 / C301 PAVEMENT SECTIONS
NOT TO SCALE



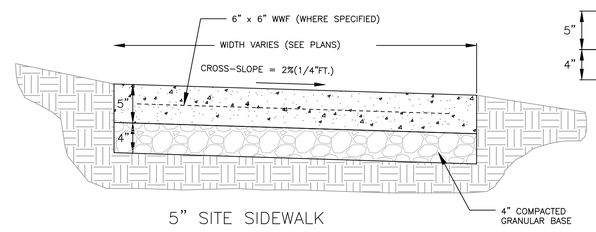
8 / C301 MEDIUM DUTY CONCRETE
NOT TO SCALE



SIDEWALK EXPANSION JOINT

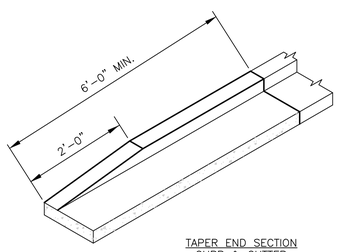


SIDEWALK CONTROL JOINT

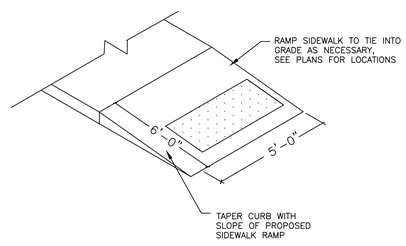


5" SITE SIDEWALK

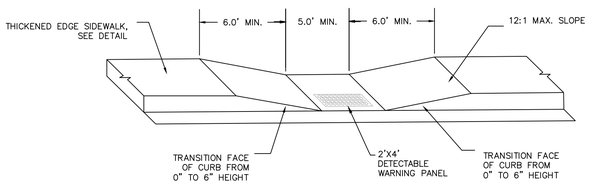
9 / C301 5" SIDEWALK
NOT TO SCALE



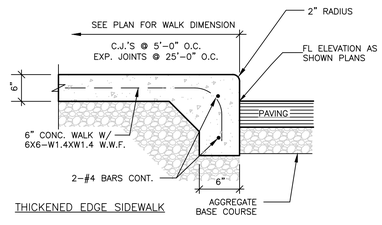
TAPER END SECTION CURB & GUTTER



TAPER END SECTION CURB & GUTTER

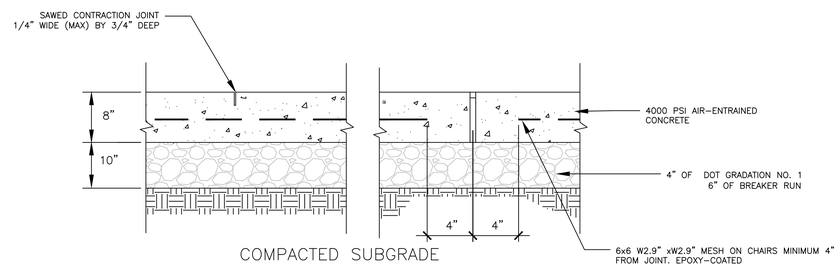


DEPRESSED SIDEWALK RAMP



THICKENED EDGE SIDEWALK

3 / C301 SIDEWALK DETAILS



COMPACTED SUBGRADE

NOTE:
PROVIDE #4 – 8" DOWEL CONNECTION BETWEEN ADJACENT SLABS AT 12" O.C. EPOXY–COATED.

10 / C301 HEAVY DUTY CONCRETE
NOT TO SCALE

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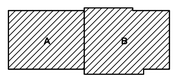
Key Plan



Sheet Issue Date
UDC FINAL - 06/13/17

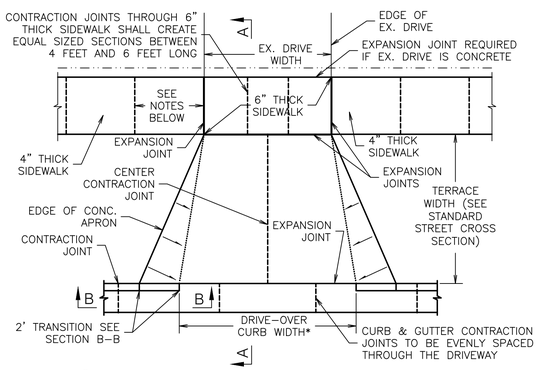
Revision	Date
DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

PRE - DESIGN
NOT FOR CONSTRUCTION

Drawing
Plan Details

OPN Project No.17207000

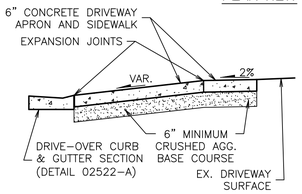
C301



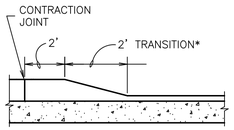
NOTES: – 6" THICK WALK WIDTH SHALL BE EQUAL TO THE EX. DRIVE WIDTH OR A MINIMUM OF 12' CENTERED ON THE EX. DRIVE. THE DRIVE–OVER CURB WIDTH SHALL BE EQUAL TO THE 6" THICK WALK WIDTH PLUS 2', CENTERED ON THE EX. DRIVE.

– CONTRACTION JOINTS IN 4" THICK SIDEWALKS SHALL BE PLACED EVERY 5'. EXPANSION JOINTS SHALL BE PLACED AT INTERVALS NOT TO EXCEED 96 FEET.

PLAN VIEW



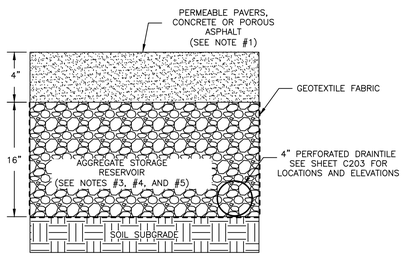
SECTION A-A



*A 4' TRANSITION IS REQUIRED IF THE TERRACE WIDTH IS LESS THAN 4 FEET

SECTION B-B

1 / C302 DRIVEWAY ENTRANCE DETAIL
NOT TO SCALE



PERVIOUS CONCRETE OR POROUS ASPHALT

NOTES:

#1. PAVEMENT SURFACE PERCENT VOIDS SHALL BE LESS THAN 25%.

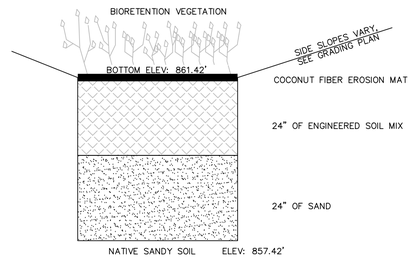
#2. JOINT STONE AND BEDDING COURSE SHALL CONSIST OF ASTM C–38, 8, 9, 89, OR 57 AGGREGATE.

#3. AGGREGATE STORAGE RESERVOIR DEPTH SHALL BE A MINIMUM OF 12 INCHES.

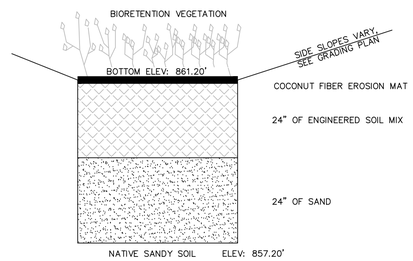
#4. BASE AND / OR SUBBASE COURSES WITH MINIMUM POROSITY OF 30% CAN BE CONSIDERED AGGREGATE STORAGE RESERVOIR. BASE COURSE FOR PERMEABLE INTERLOCKING PAVERS SHALL BE 4" IN DEPTH OF ASTM C–33, 57 AGGREGATE AND CAN BE CONSIDERED PART OF THE AGGREGATE STORAGE DEPTH.

#5. UNDERDRAINS CAN BE LOCATED WITHIN OR BELOW THE AGGREGATE STORAGE RESERVOIR. UNDERDRAINS (OR EQUIVALENT) ARE REQUIRED IF THE AGGREGATE STORAGE RESERVOIR DRAIN DRAW DOWN TIME WILL EXCEED 72 HOURS.

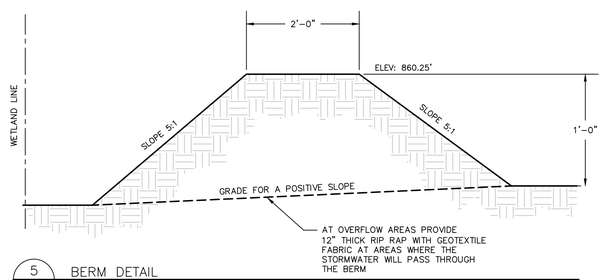
2 / C302 PERVIOUS CONCRETE DETAIL
NOT TO SCALE



3 / C302 SOUTH BIORETENTION PROFILE
NOT TO SCALE



4 / C302 WEST BIORETENTION PROFILE
NOT TO SCALE



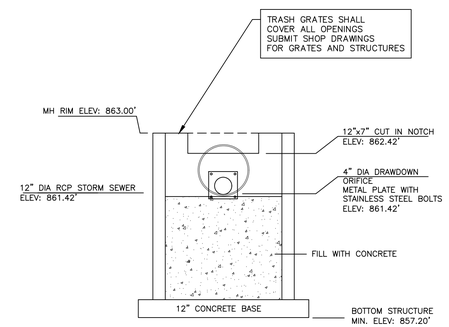
5 / C302 BERM DETAIL
NOT TO SCALE

BIORETENTION NOTES

1. BIORETENTION SHALL CONFORM TO WIS. DNR TECH STANDARD 1004.
2. ENGINEERED SOIL SHALL CONSIST OF 70%–85% SILICA SAND AND 15%–30% COMPOST WITH A PH OF 5.5–6.5
3. BIORETENTION BASINS SHALL BE EXCAVATED AND USED AS SEDIMENT TRAPS DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION AND SITE STABILIZATION, THE BASINS SHALL BE OVER–EXCAVATED 3 FEET MINIMUM AND THEN THE SAND LAYER AND ENGINEERED SOIL SHALL BE PLACED TO WITHIN THREE INCHES OF FINAL GRADE. ONCE THE ENGINEERED SOIL IS PLACED, THREE INCHES OF HARDWOOD MULCH SHALL BE ADDED ON TOP OF THE ENGINEERED SOIL.
4. SPECIFIC SPECIES OR CONTAINER SIZE SUGGESTED SUBSTITUTIONS SHALL BE PRESENTED TO CONSULTANT ALONG WITH THE REASONS FOR THE SUGGESTIONS. WITH CONSULTANT OR PROJECT ENGINEER'S APPROVAL, SUBSTITUTIONS MAY BE MADE. IF SUBSTITUTIONS ARE MADE, CONTRACT PRICES MAY NEED TO BE ADJUSTED ACCORDINGLY.
5. LIVE PLANTS CAN BE PLANTED IN THE FIELD DURING THE GROWING SEASON FROM MAY 1 THROUGH OCTOBER 1. ANY SUGGESTED PLANTING TIMES NOT IN THIS WINDOW SHALL BE APPROVED BY CONSULTANT OR ENGINEER. IF PLANTING OCCURS OUTSIDE OF THIS WINDOW ADDITIONAL MEASURES MAY NEED TO BE TAKEN (I.E. MULCH) TO ENSURE PLANT SURVIVAL. IN THESE INSTANCES, THE CONTRACT PRICE MAY NEED TO BE ADJUSTED ACCORDINGLY.
6. ALL PLANTED MATERIALS WILL BE WARRANTED BY INSTALLATION CONTRACTOR TO BE IN HEALTHY CONDITION WITH A REPLACEMENT GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF PLANTING.
7. NATIVE PLANTS SHOULD BE WATERED IN AFTER INSTALLATION TO ENSURE THEIR SURVIVAL. THIS TYPICALLY INVOLVES WATERING AT TIME OF INSTALLATION AND 2 TIMES WEEKLY FOR A ONE MONTH PERIOD OR UNTIL GROUND FREEZE UP IF NATURAL RAINFALLS ARE INSUFFICIENT. A SINGLE WATERING EVENT INVOLVES WATERING THE SOIL IN THE PLANTED AREAS TO THE POINT OF SATURATION BUT STOPPING SHORT OF SOIL DISPLACEMENT. SHOULD VERY DRY CONDITIONS DEVELOP WITHIN ONE YEAR OF PLANTING, ADDITIONAL WATERINGS MAY BE NECESSARY. CONSULTANT OR PROJECT ENGINEER WILL DETERMINE THIS AND CONTRACT PRICES MAY BE ADJUSTED TO ACCOMMODATE THIS ACTION.
8. ACCEPTABLE SPECIES INCLUDE:
   LAVENDER HYSSOP, HEATH ASTER, HAIRY WOOD MINT, BRISTLY SEDGE,PORCUPINE SEDGE, BROWN FOX SEDGE, PURPLE CONEFLOWER, BONESET, RATTLESNAKE GRASS, SOUTHERN BLUE FLAG IRIS, MARSH BLAZING STAR, GREAT BLUE LOBELIA, MOUNTAIN MINT, OHIO GOLDENROD, BLUE VERVAIN, HEART–LEAVED GOLDEN ALEXANDERS.

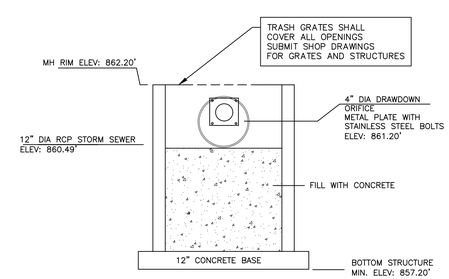
   FORBS: MARSH MILKWEED, HEATH ASTER, NEW ENGLAND ASTER WILD WHITE INDIGO, SPOTTED JOE PYE WEED, BONESET PRAIRIE BLAZING STAR, MARSH BLAZING STAR, CARDINAL FLOWER, GREAT BLUE LOBELIA, WILD BERGAMOT, OBEDIENT PLANT, MOUNTAIN MINT, YELLOW CONEFLOWER, BLACK–EYED SUSAN, SWEET BLACK–EYED SUSAN, OHIO GOLDENROD, SPIDERWORT, BLUE VERVAIN AND IRONWEED.

   GRASSES, SEDGES & RUSHES: FRINGED BROME, BLUE JOINT GRASS, BEBB–S SEDGE CRAWFORD'S SEDGE FRINGED SEDGE, COMMON FOX SEDGE, CANADA WILD RYE, VIRGINIA WILD RYE, REED MANNA GRASS, SWITCH GRASS, DARK–GREEN BULLRUSH, WOOL GRASS, INDIAN GRASS PRAIRIE CORD GRASS.
9. PLANTS SHALL BE PLANTED IN THE BIORETENTION AREA AT A MINIMUM OF ONE PLANT PER EVERY SQUARE FOOT.



SOUTH BIORETENTION

6 / C302 SOUTH BIORETENTION OVERFLOW MH#1
NOT TO SCALE



WEST BIORETENTION

7 / C302 WEST BIORETENTION OVERFLOW MH#2
NOT TO SCALE

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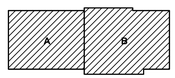
Key Plan



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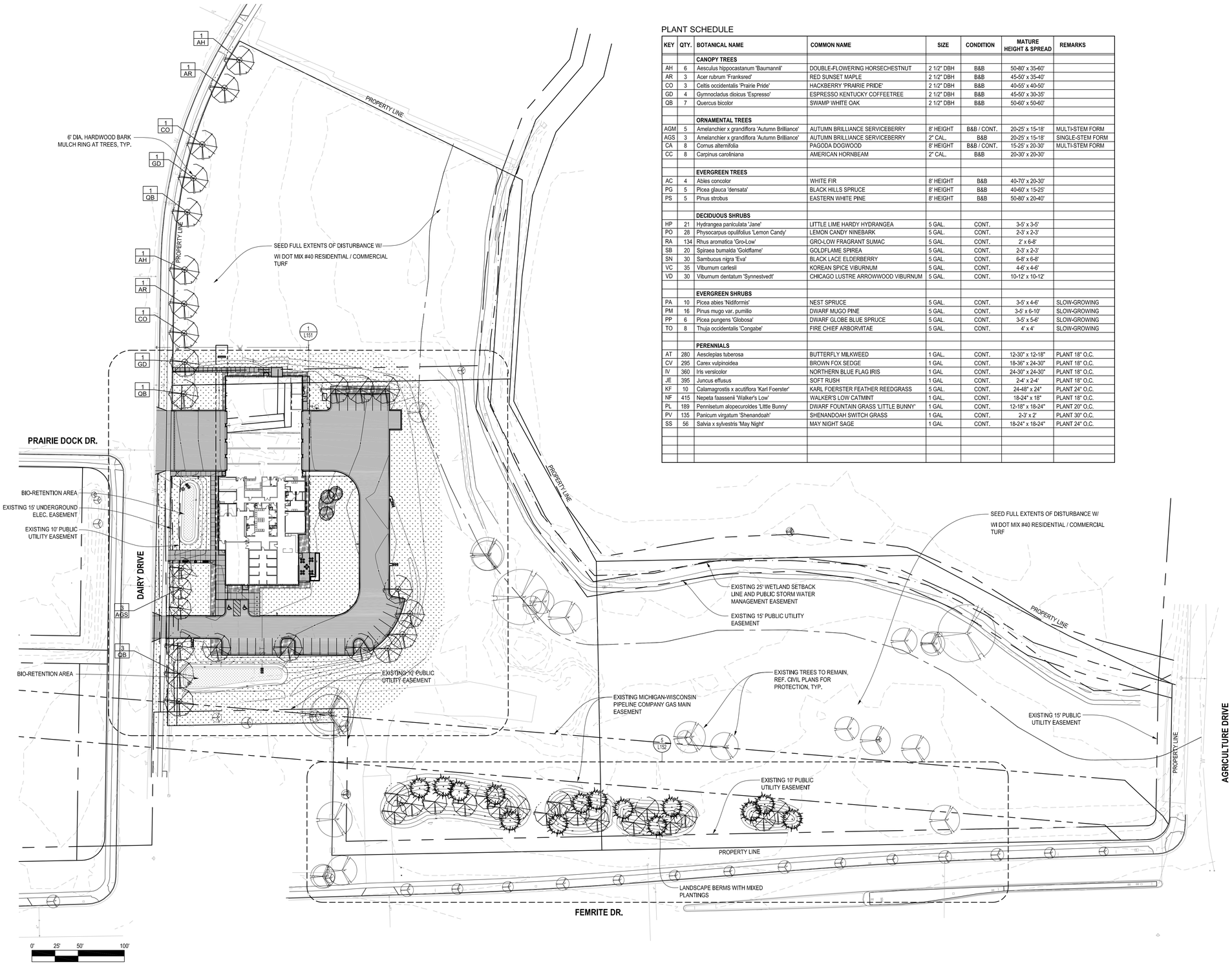
Drawing
Plan Details

OPN Project No.17207000

C302



1 SITE PLAN
1" = 50'-0"

PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	MATURE HEIGHT & SPREAD	REMARKS
		CANOPY TREES					
AH	6	Aesculus hippocastanum 'Baumannii'	DOUBLE-FLOWERING HORSECHESTNUT	2 1/2" DBH	B&B	50-80' x 35-60'	
AR	3	Acer rubrum 'Frankered'	RED SUNSET MAPLE	2 1/2" DBH	B&B	45-50' x 35-40'	
CO	3	Celtis occidentalis 'Prairie Pride'	HACKBERRY 'PRAIRIE PRIDE'	2 1/2" DBH	B&B	40-55' x 40-50'	
GD	4	Gymnocladus dioicus 'Espresso'	ESPRESSO KENTUCKY COFFEETREE	2 1/2" DBH	B&B	45-50' x 30-35'	
QB	7	Quercus bicolor	SWAMP WHITE OAK	2 1/2" DBH	B&B	50-60' x 50-60'	
		ORNAMENTAL TREES					
AGM	5	Amelanchier x grandiflora 'Autumn Brilliance'	AUTUMN BRILLIANCE SERVICEBERRY	8' HEIGHT	B&B / CONT.	20-25' x 15-18'	MULTI-STEM FORM
AGS	3	Amelanchier x grandiflora 'Autumn Brilliance'	AUTUMN BRILLIANCE SERVICEBERRY	2" CAL.	B&B	20-25' x 15-18'	SINGLE-STEM FORM
CA	8	Cornus alternifolia	PAGODA DOGWOOD	8' HEIGHT	B&B / CONT.	15-25' x 20-30'	MULTI-STEM FORM
CC	8	Carpinus caroliniana	AMERICAN HORNBEAM	2" CAL.	B&B	20-30' x 20-30'	
		EVERGREEN TREES					
AC	4	Abies concolor	WHITE FIR	8' HEIGHT	B&B	40-70' x 20-30'	
PG	5	Picea glauca 'densata'	BLACK HILLS SPRUCE	8' HEIGHT	B&B	40-60' x 15-25'	
PS	5	Pinus strobus	EASTERN WHITE PINE	8' HEIGHT	B&B	50-80' x 20-40'	
		DECIDUOUS SHRUBS					
HP	21	Hydrangea paniculata 'Jane'	LITTLE LIME HARDY HYDRANGEA	5 GAL.	CONT.	3-5' x 3-5'	
PO	28	Physocarpus opulifolius 'Lemon Candy'	LEMON CANDY NINEBARK	5 GAL.	CONT.	2-3' x 2-3'	
RA	134	Rhus aromatica 'Gro-Low'	GRO-LOW FRAGRANT SUMAC	5 GAL.	CONT.	2' x 6-8'	
SB	20	Spiraea bumalda 'Goldflame'	GOLDFLAME SPIREA	5 GAL.	CONT.	2-3' x 2-3'	
SN	30	Sambucus nigra 'Eva'	BLACK LACE ELDERBERRY	5 GAL.	CONT.	6-8' x 6-8'	
VC	35	Viburnum carlesii	KOREAN SPICE VIBURNUM	5 GAL.	CONT.	4-6' x 4-6'	
VD	30	Viburnum dentatum 'Synnestvedt'	CHICAGO LUSTRE ARROWWOOD VIBURNUM	5 GAL.	CONT.	10-12' x 10-12'	
		EVERGREEN SHRUBS					
PA	10	Picea abies 'Nidiformis'	NEST SPRUCE	5 GAL.	CONT.	3-5' x 4-6'	SLOW-GROWING
PM	16	Pinus mugo var. pumilio	DWARF MUGO PINE	5 GAL.	CONT.	3-5' x 6-10'	SLOW-GROWING
PP	6	Picea pungens 'Globosa'	DWARF GLOBE BLUE SPRUCE	5 GAL.	CONT.	3-5' x 5-6'	SLOW-GROWING
TO	8	Thuja occidentalis 'Congabe'	FIRE CHIEF ARBORVITAE	5 GAL.	CONT.	4' x 4'	SLOW-GROWING
		PERENNIALS					
AT	280	Aescleplas tuberosa	BUTTERFLY MILKWEED	1 GAL.	CONT.	12-30" x 12-18"	PLANT 18" O.C.
CV	295	Carex vulpinoidea	BROWN FOX SEDGE	1 GAL	CONT.	18-36" x 24-30"	PLANT 18" O.C.
IV	360	Iris versicolor	NORTHERN BLUE FLAG IRIS	1 GAL	CONT.	24-30" x 24-30"	PLANT 18" O.C.
JE	395	Juncus effusus	SOFT RUSH	1 GAL	CONT.	2-4' x 2-4'	PLANT 18" O.C.
KF	10	Calamagrostis x acutiflora 'Karl Foerster'	KARL FOERSTER FEATHER REEDGRASS	5 GAL.	CONT.	24-48" x 24"	PLANT 24" O.C.
NF	415	Nepeta faassenii 'Walker's Low'	WALKER'S LOW CATMINT	1 GAL.	CONT.	18-24" x 18"	PLANT 18" O.C.
PL	189	Pennisetum alopecuroides 'Little Bunny'	DWARF FOUNTAIN GRASS 'LITTLE BUNNY'	1 GAL	CONT.	12-18" x 18-24"	PLANT 20" O.C.
PV	135	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCH GRASS	1 GAL	CONT.	2-3' x 2'	PLANT 30" O.C.
SS	56	Salvia x sylvestris 'May Night'	MAY NIGHT SAGE	1 GAL	CONT.	18-24" x 18-24"	PLANT 24" O.C.

PRELIMINARY LANDSCAPE CALCULATIONS AND DISTRIBUTION

TOTAL DEVELOPED AREA
...FIVE (5) LANDSCAPE POINTS SHALL BE PROVIDED FOR EACH THREE HUNDRED (300) SQUARE FEET OF DEVELOPED AREA.

49,696 SF OF DEVELOPED AREA / 300 = 166 x 5 = **830 POINTS**

DEVELOPMENT FRONTAGE LANDSCAPING
SEC. 28.142 (5): *LANDSCAPING AND/OR ORNAMENTAL FENCING SHALL BE PROVIDED BETWEEN BUILDINGS OR PARKING AREAS AND THE ADJACENT STREET(S), EXCEPT WHERE BUILDINGS ARE PLACED AT THE SIDEWALK.*

DAIRY DRIVE DEVELOPMENT FRONTAGE: 425 LF

SEC. 28.142 (5)(c): *IN CASES WHERE DEVELOPMENT FRONTAGE LANDSCAPE CANNOT BE PROVIDED DUE TO SITE CONSTRAINTS, THE ZONING ADMINISTRATOR MAY WAIVE THE REQUIREMENT OR SUBSTITUTE ALTERNATIVE SCREENING METHODS FOR THE REQUIRED LANDSCAPING.*

NORTH DRIVE APRON: 66 LF
SOUTH DRIVE APRON: 25 LF
GAS MAIN EASEMENT: 25 LF

ONE (1) OVERSTORY DECIDUOUS TREE AND FIVE (5) SHRUBS SHALL BE PLANTED FOR EACH THRITY (30) LINEAL FEET OF LOT FRONTAGE.

DAIRY DRIVE: 309 LF /30 = 10.3
1 x 11 = **11 TREES**
5 x 11 **= 55 SHRUBS**

INTERIOR PARKING LOT LANDSCAPING
...A MINIMUM OF EIGHT PERCENT (8%) OF THE ASPHALT OR CONCRETE AREA OF THE PARKING LOT SHALL BE DEVOTED TO INTERIOR PLANTING ISLANDS, PENINSULAS, OR LANDSCAPED STRIPS.

20,223 SF x 8% **= 1,618 SF LANDSCAPE AREA**

THE PRIMARY PLANT MATERIAL SHALL BE SHADE TREES WITH AT LEAST ONE (1) DECIDUOUS CANOPY TREE FOR EVERY ONE HUNDRED SIXTY (160) SF OF REQUIRED LANDSCAPE AREA.

1,618 /160 = **10 TREES**

FOUNDATION PLANTINGS
FOUNDATION PLANTINGS SHALL BE INSTALLED ALONG BUILDING FACADES, EXCEPT WHERE BUILDING FACADES DIRECTLY ABUT THE SIDEWALK, PLAZA, OR OTHER HARDSCAPE FEATURES.

SCREENING ALONG DISTRICT BOUNDARIES
NA

SCREENING OF OTHER SITE ELEMENTS
REFUSE DISPOSAL - INTERIOR TO BUILDING
MECHANICAL EQUIPMENT -
- TRANSFORMER SCREENED FROM VIEW OF SURROUNDING STREETS AND RESIDENTIAL DISTRICTS BY BUILDING FORM.
- GENERATOR TO BE A MOBILE UNIT NOT STORED ON SITE

BICYCLE PARKING CALCULATIONS
PER ZONING CODE TABLE 28I-3 OFF-STREET PARKING REQUIREMENTS
BUILING USE
- PUBLIC SAFETY FACILITY - BICYCLE MINIMUM DETERMINED BY ZONING ADMINISTRATOR
- MEETING ROOM W/ 60 PERSON CAPACITY (LODGE, PRIVATE CLUB, RECEPTION HALL) - BICYCLE MINIMUM AT 5% OF CAPACITY = 3

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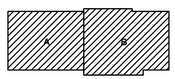
Key Plan



Sheet Issue Date
UDC FINAL - 06/13/17

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DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
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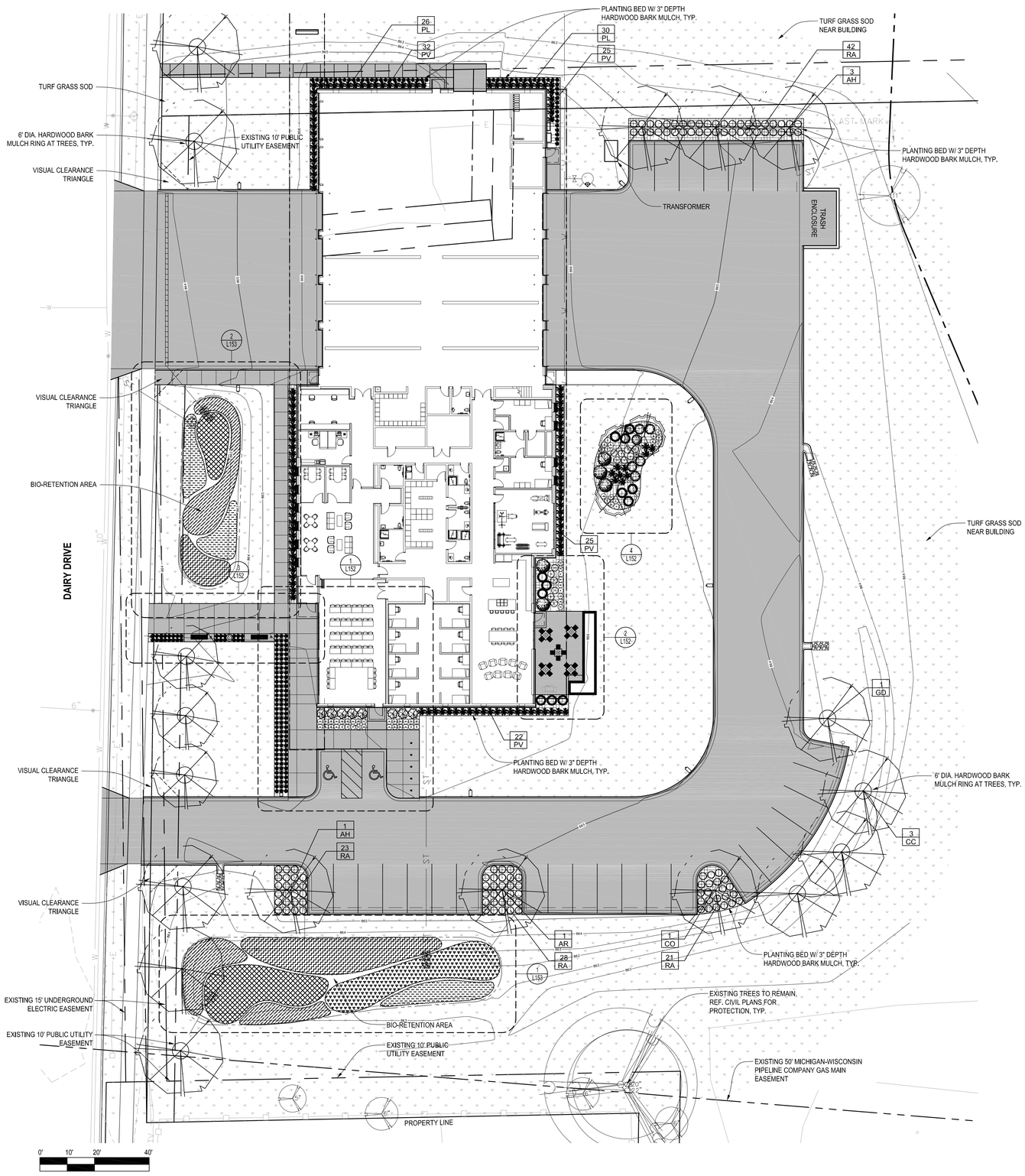
Drawing
LANDSCAPE PLAN

OPN Project No. 17207000

L101



1 SITE PLAN ENLARGEMENT

1" = 20'-0"

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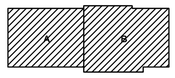

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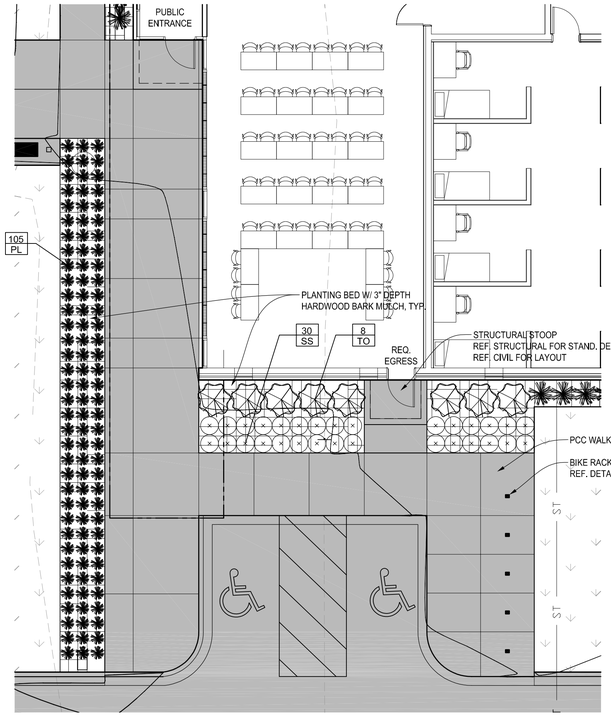
Drawing

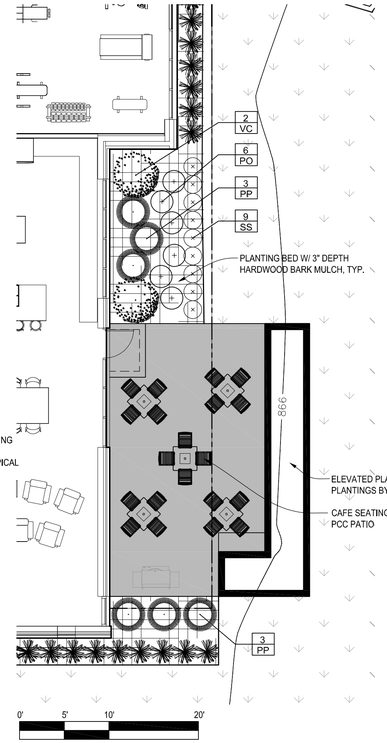
LANDSCAPE PLAN ENLARGEMENTS

OPN Project No. 17207000

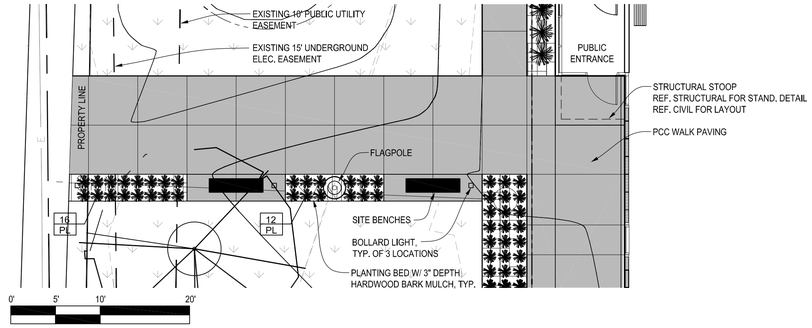
L151



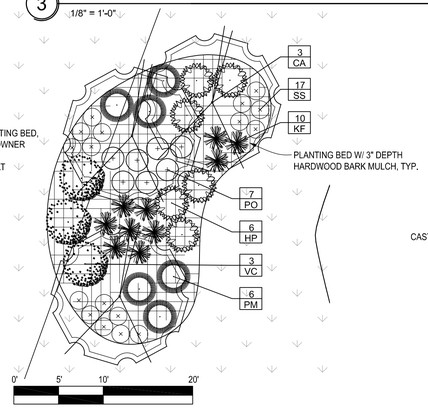
1 SITE PLAN ENLARGEMENT
1/8" = 1'-0"



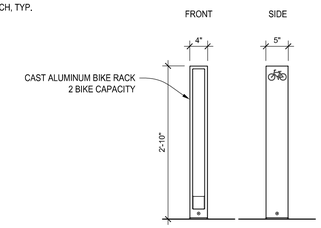
2 SITE PLAN ENLARGEMENT
1/8" = 1'-0"



3 SITE PLAN ENLARGEMENT
1/8" = 1'-0"



4 SITE PLAN ENLARGEMENT
1/8" = 1'-0"

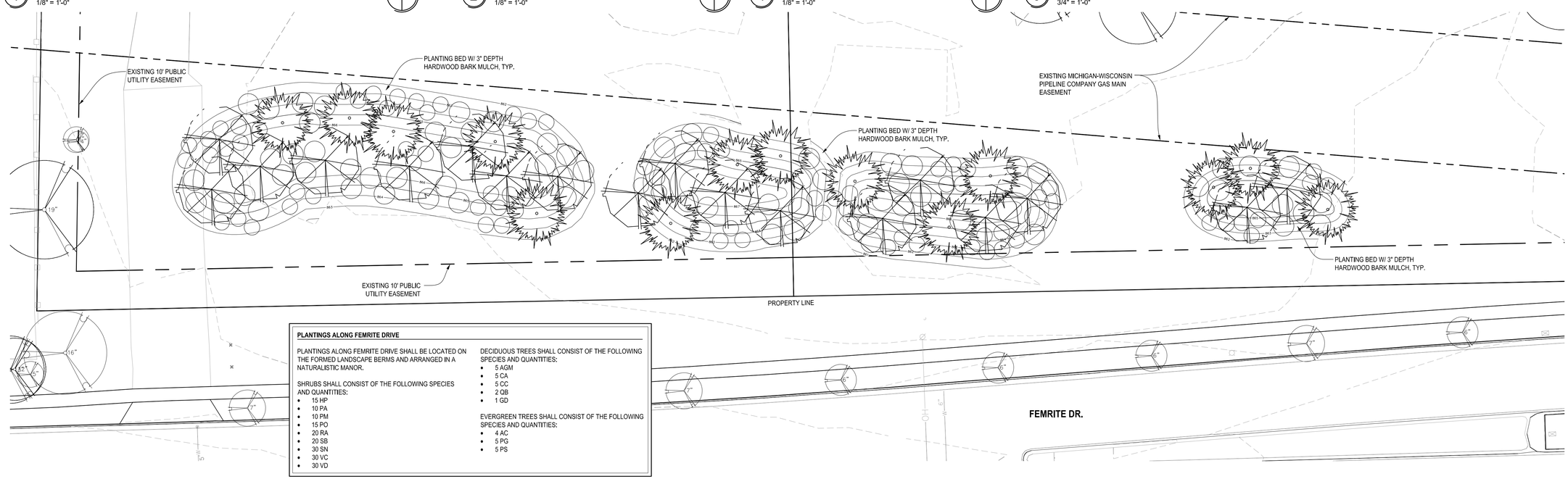


BICYCLE RACK SPECIFICATION

MANUFACTURER	FORMS + SURFACES 800.451.0410 www.forms-surfaces.com
STYLE	CAPITOL
MODEL #	SKCAP
COLOR	ALUMINUM TEXTURE

NOTE:
BICYCLE RACK MEETS ASSOCIATION OF PEDESTRIAN AND BICYCLE PROFESSIONALS (APBP) GUIDELINES FOR SECURITY AND FUNCTIONALITY. ALLOWS FOR STANDARD U-LOCK USE.

6 BICYCLE RACKS
3/4" = 1'-0"



PLANTINGS ALONG FEMRITE DRIVE

PLANTINGS ALONG FEMRITE DRIVE SHALL BE LOCATED ON THE FORMED LANDSCAPE BERMS AND ARRANGED IN A NATURALISTIC MANOR.

SHRUBS SHALL CONSIST OF THE FOLLOWING SPECIES AND QUANTITIES:
- 15 HP
- 10 PA
- 10 PM
- 15 PO
- 20 RA
- 20 SB
- 30 SN
- 30 VC
- 30 VD

DECIDUOUS TREES SHALL CONSIST OF THE FOLLOWING SPECIES AND QUANTITIES:
- 5 AGM
- 5 CA
- 5 CC
- 2 QB
- 1 GD

EVERGREEN TREES SHALL CONSIST OF THE FOLLOWING SPECIES AND QUANTITIES:
- 4 AC
- 5 PG
- 5 PS

0' 10' 20' 40'

5 SITE PLAN ENLARGEMENT - FEMRITE DRIVE FRONTAGE
1" = 20'-0"

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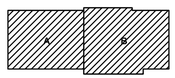

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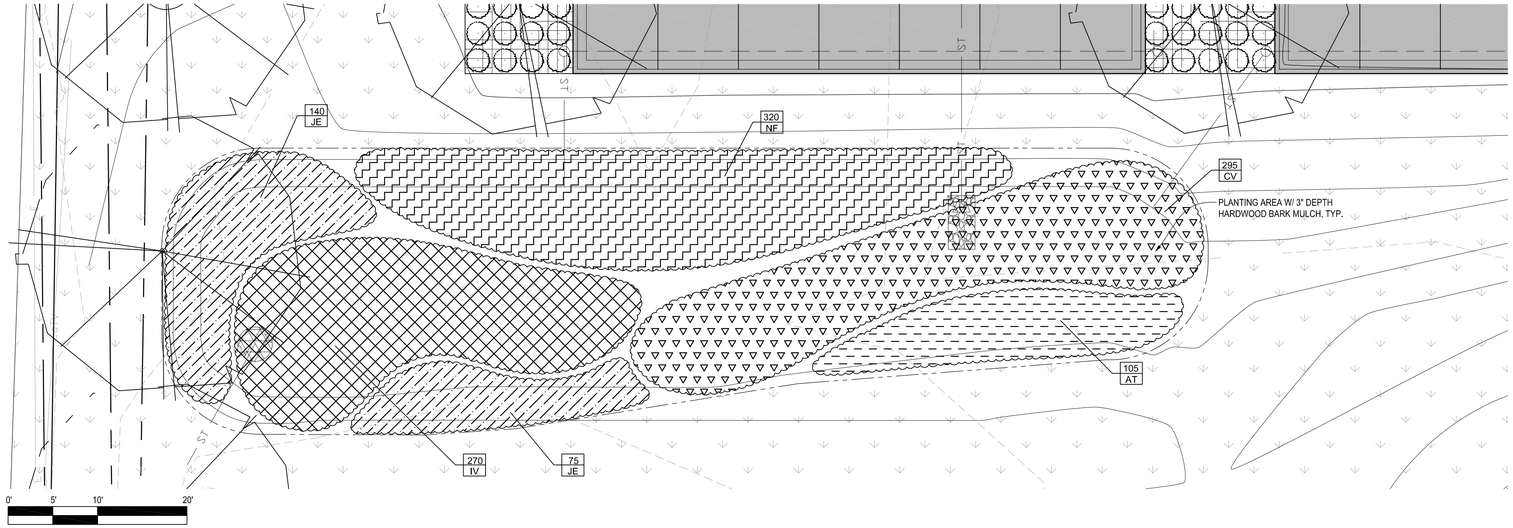
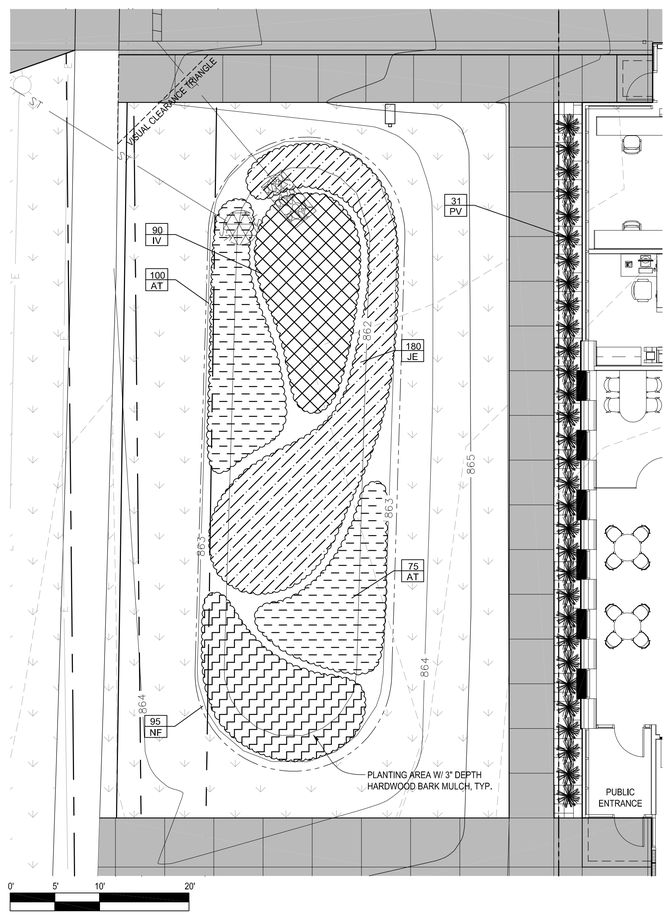
Drawing
LANDSCAPE PLAN ENLARGEMENTS

OPN Project No. 17207000

L152



1 SITE PLAN ENLARGEMENT
1/8" = 1'-0"



2 SITE PLAN ENLARGEMENT
1/8" = 1'-0"

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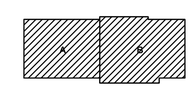

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LANDSCAPE PLAN ENLARGEMENTS

OPN Project No. 17207000

L153

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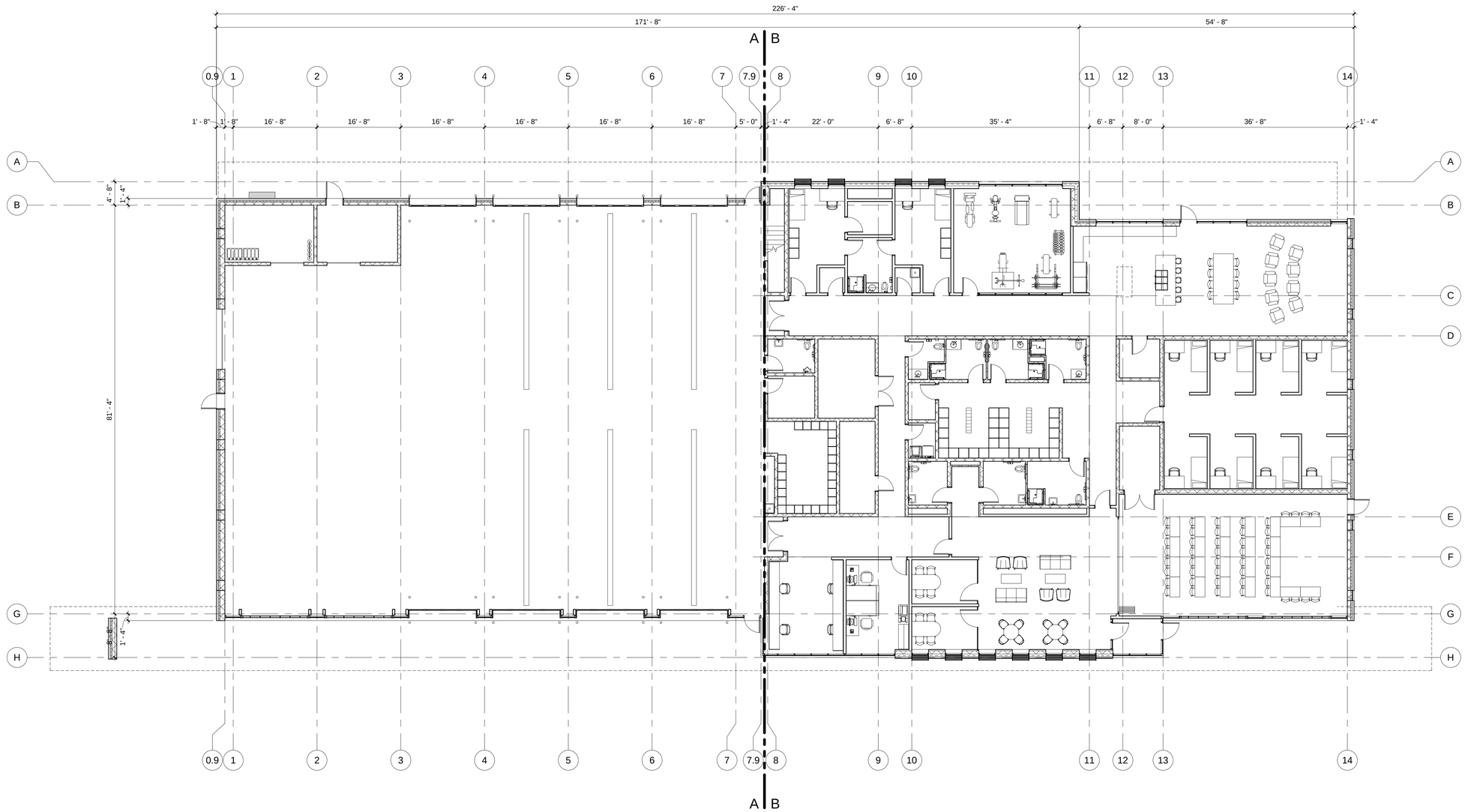

1 LEVEL 1 FLOOR PLAN
3/32" = 1'-0"

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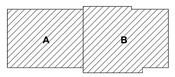

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FLOOR PLAN LEVEL 1

OPN Project No. 17207000

A101

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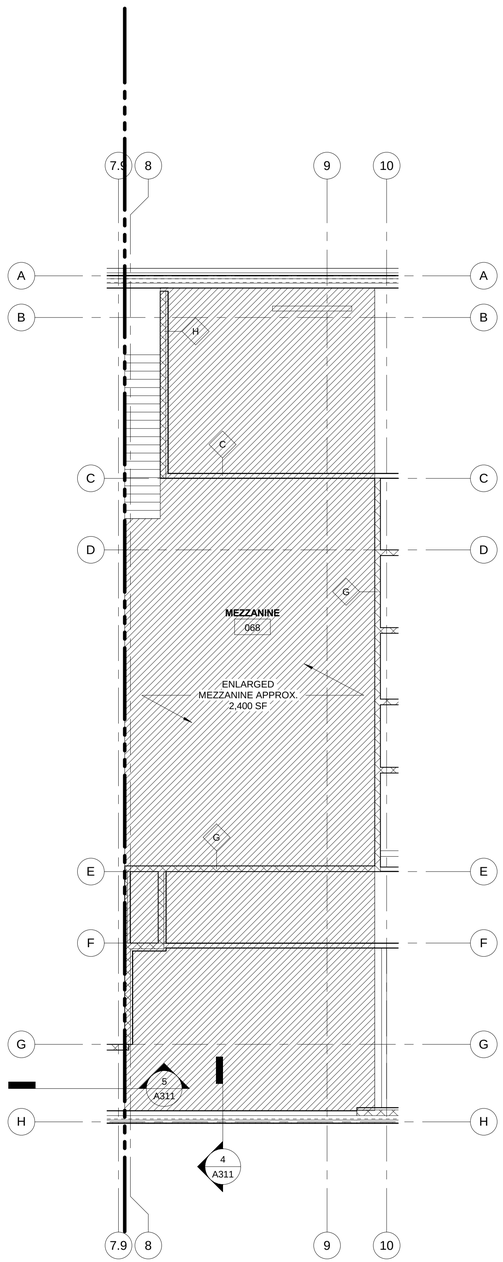
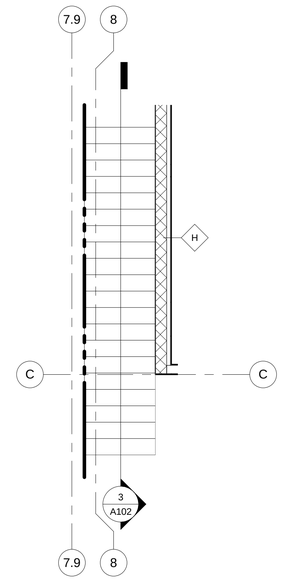
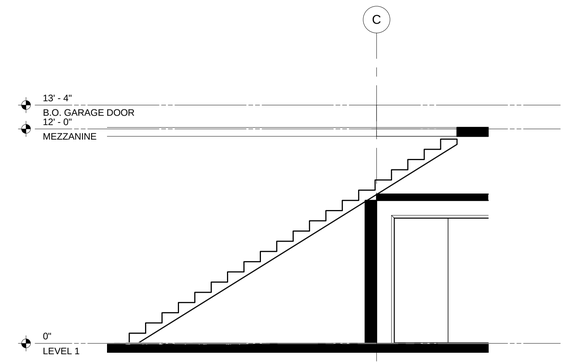


1 MEZZANINE PLAN
1/8" = 1'-0"



2 MEZZANINE - Callout 1
1/4" = 1'-0"



3 Section 5
1/4" = 1'-0"

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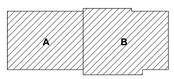

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MEZZANINE PLAN

OPN Project No. 17207000

A102

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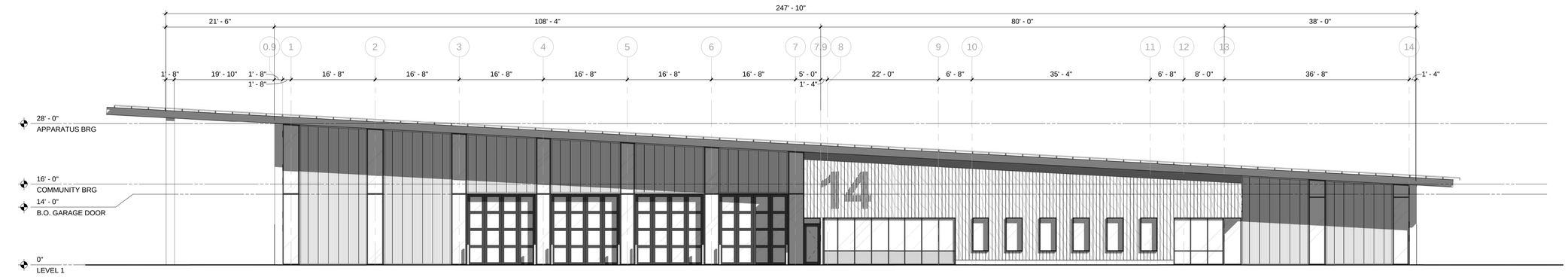
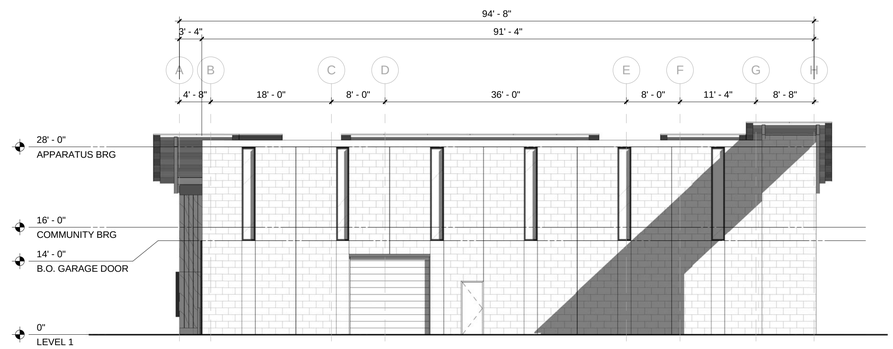
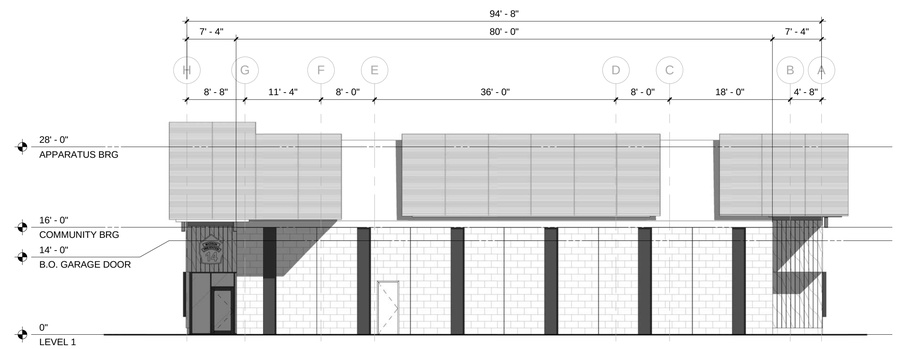


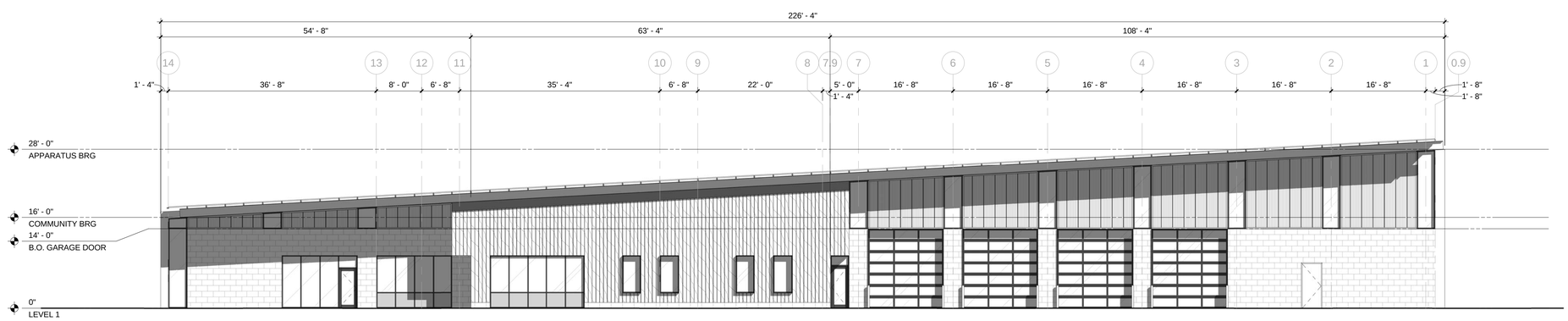
1 BUILDING ELEVATION - WEST
3/32" = 1'-0"



2 BUILDING ELEVATION - NORTH
3/32" = 1'-0"



3 BUILDING ELEVATION - SOUTH
3/32" = 1'-0"



4 BUILDING ELEVATION - EAST
3/32" = 1'-0"

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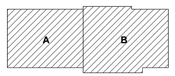

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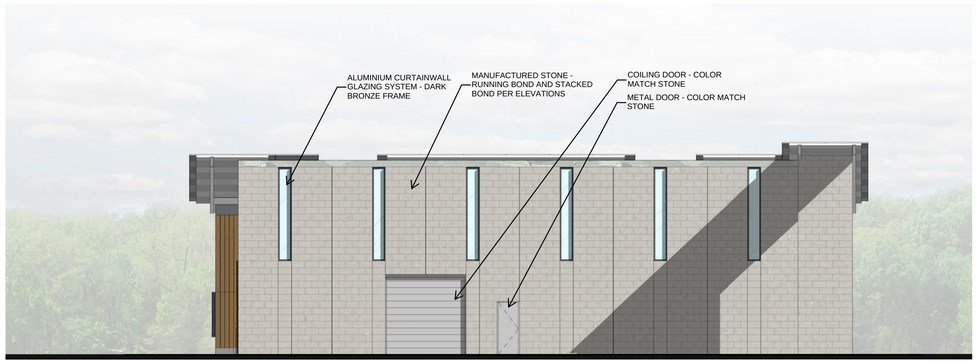
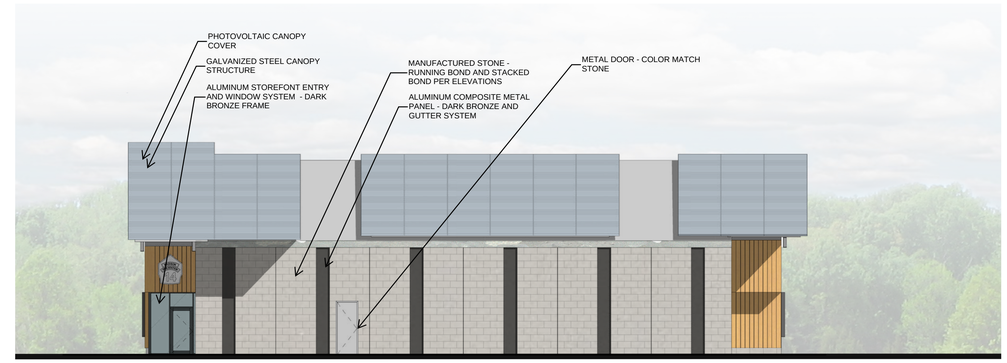
EXTERIOR ELEVATIONS

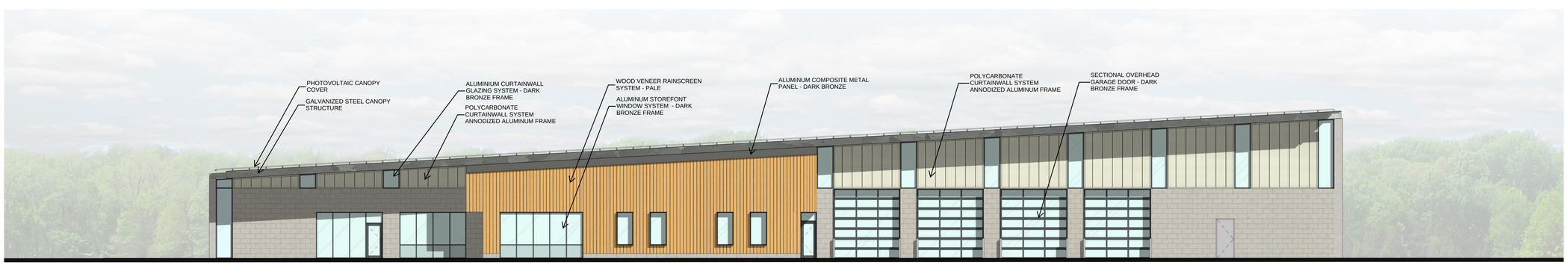
OPN Project No. 17207000

A200

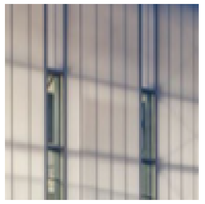
PRINTED: 6/9/2017 12:28:54 AM







MATERIAL: MANUFACTURED STONE
COLOR: MONTECITO RENAISSANCE
MANUFACTURER: ARRISCRAFT BUILDING STONE



MATERIAL: POLYCARBONATE
COLOR: CLEAR / WHITE
MANUF: CPI DAYLIGHTING

MATERIAL: WOOD VENEER
COLOR: RUSTIC
MANUF: PRODEMA (EXTERIOR)

MATERIAL: MTL. PANEL
COLOR: CNC CHARCOAL
MANUF: ALPOLIC

MATERIAL: GLAVANIZED STEEL
COLOR: GLAVANIZED
MANUF: N/A

MATERIAL: GLASS
TYPE: 1/4" SLB60 AN ST, 1/2" AIR SPACE, 1/4" CLEAR
MANUF: OLDCASTLE

PRELIMINARY. NOT FOR CONSTRUCTION.

OPN ARCHITECTS

301 N BROOM STREET #100
MADISON, WI 53703
608-819-0260 PHONE
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Owner

City of Madison Fire Department

314 W. Dayton St
Madison, WI 53703

Project

Madison Fire Station 14

3201 Dairy Drive
Madison WI, 53718

Civil Engineer

Snyder & Associates, Inc

5010 Voges Rd
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P. 608-838-0444

Structural Engineer

IMEG

1800 Deming Way #200
Middleton, WI 53562
P. 608-223-9600

Mechanical Engineer

IMEG

1800 Deming Way #200
Middleton, WI 53562
P. 608-223-9600

Electrical Engineer

IMEG

1800 Deming Way #200
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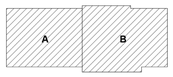
P. 608-223-9600

Key Plan



Sheet Issue Date
UDC FINAL - 06/13/17

Revision	Date
DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

SCHEMATIC DESIGN
NOT FOR CONSTRUCTION

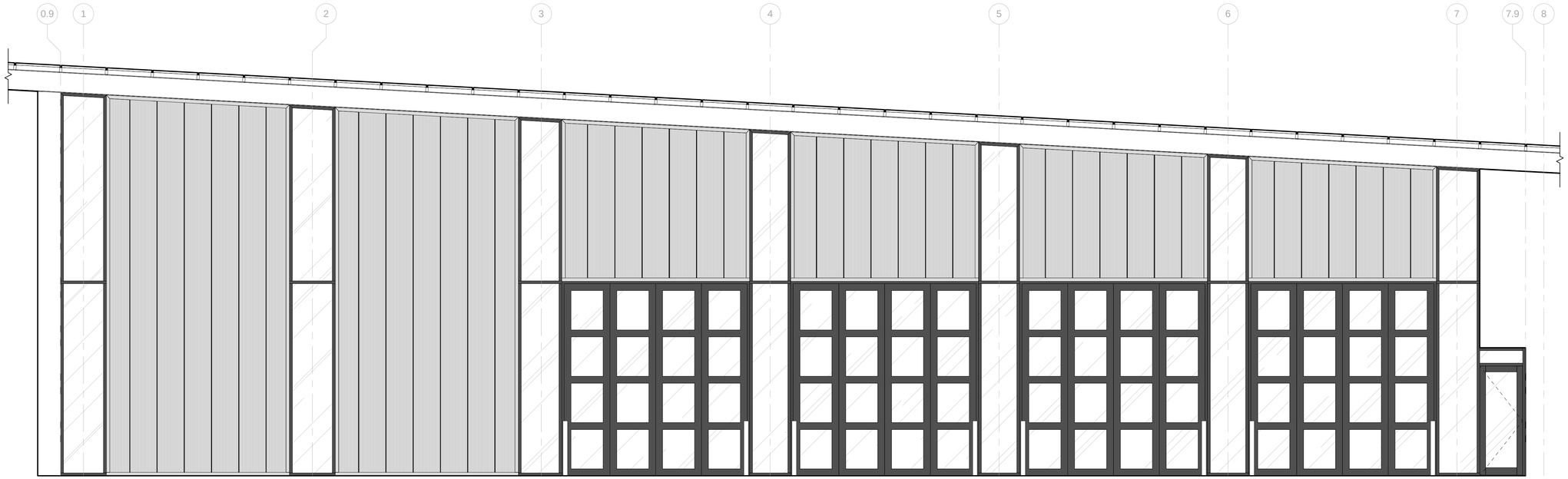
Drawing

EXTERIOR ELEVATIONS

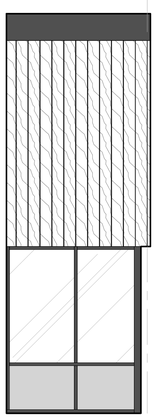
OPN Project No. 17207000

A201

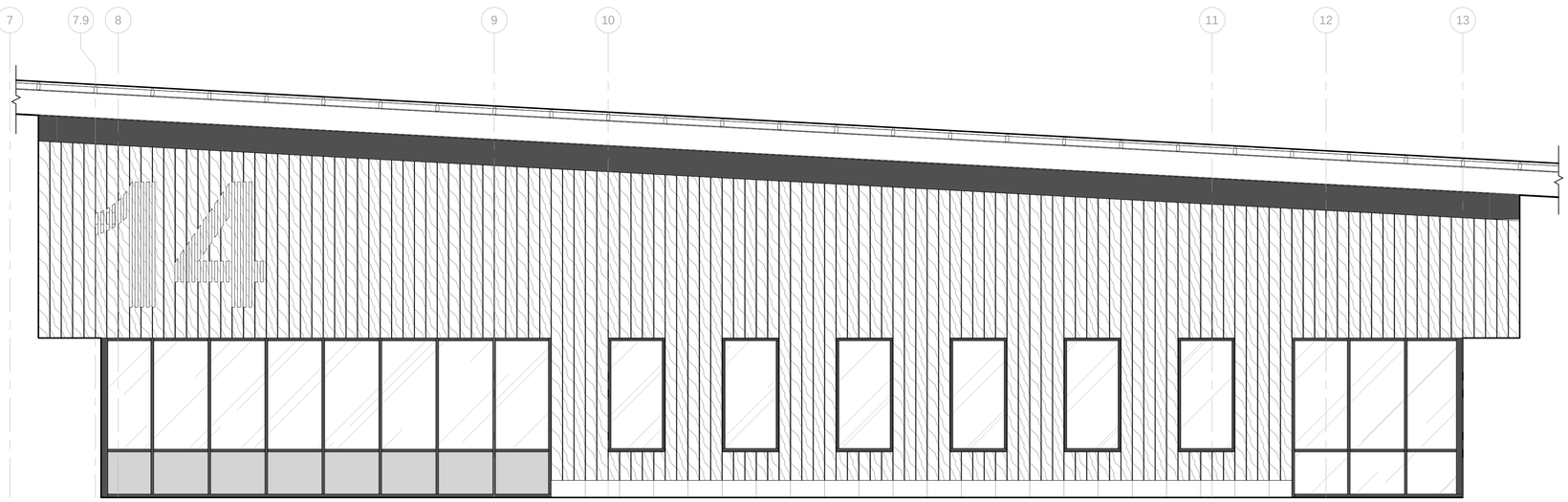
PRINTED: 6/12/2017 10:06:07 AM



1 ENLARGED ELEVATION
1/4" = 1'-0"



2 ENLARGED ELEVATION
1/4" = 1'-0"



3 ENLARGED ELEVATION
1/4" = 1'-0"

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OPN ARCHITECTS

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Owner

Awesome Incorporated

710 9TH ST
DES MOINES, IOWA 50309

Project

Awesome Inc Headquarters

710 9TH ST
DES MOINES, IOWA 50309

General Contractor

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DES MOINES, IA 50309
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F. 515-309-XXXX

Civil Engineer

Contractor Name

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Key Plan

Sheet Issue Date
UDC FINAL - 06/13/17

Revision	Date
DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

DESIGN DEVELOPEMENT NOT FOR CONSTRUCTION

Drawing

ENLARGED EXTERIOR ELEVATIONS

OPN Project No. xxxxxxxx

A210

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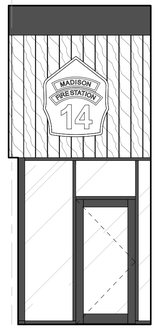

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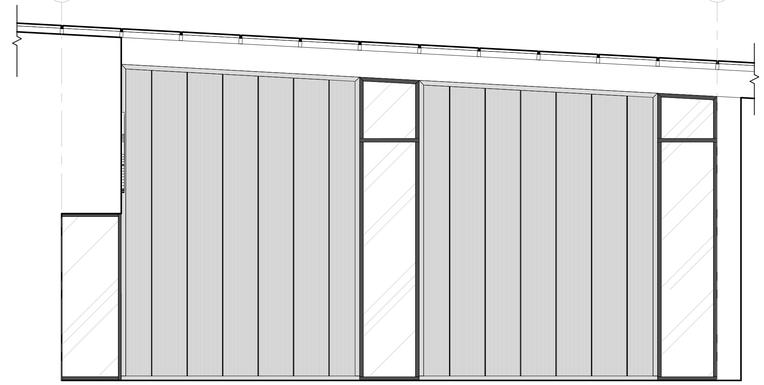
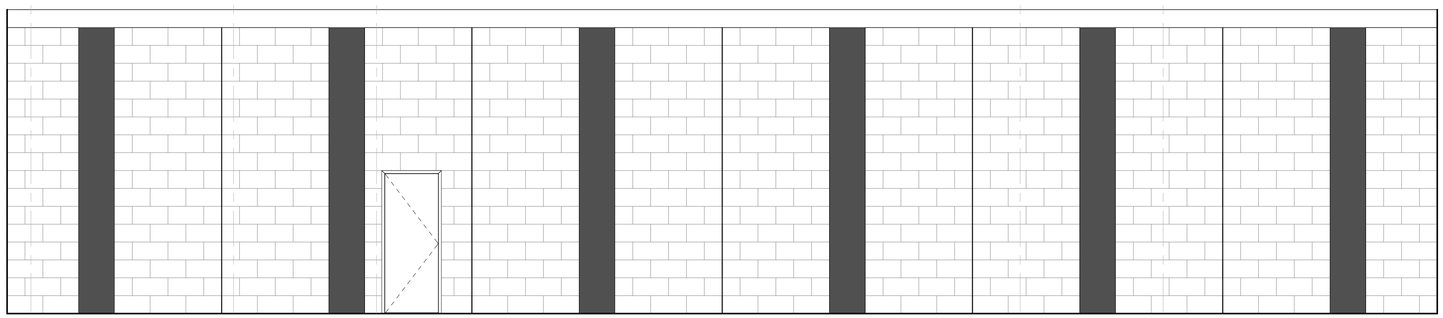
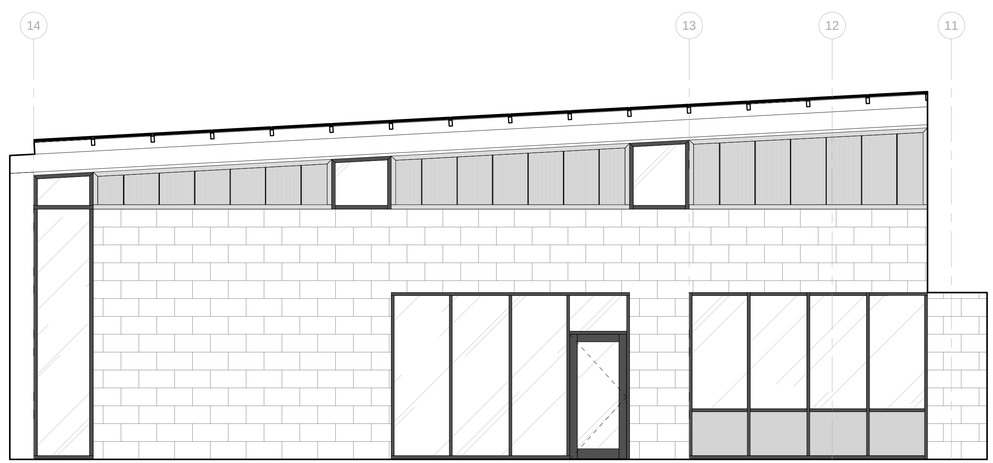


2 ENLARGED ELEVATION
1/4" = 1'-0"



3 ENLARGED ELEVATION



4 ENLARGED ELEVATION
1/4" = 1'-0"

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Key Plan

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PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

DESIGN DEVELOPEMENT NOT FOR CONSTRUCTION

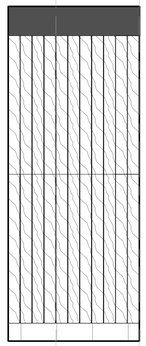
Drawing

ENLARGED EXTERIOR ELEVATIONS

OPN Project No. xxxxxxxx

A211

PRINTED: 6/12/2017 10:06:09 AM



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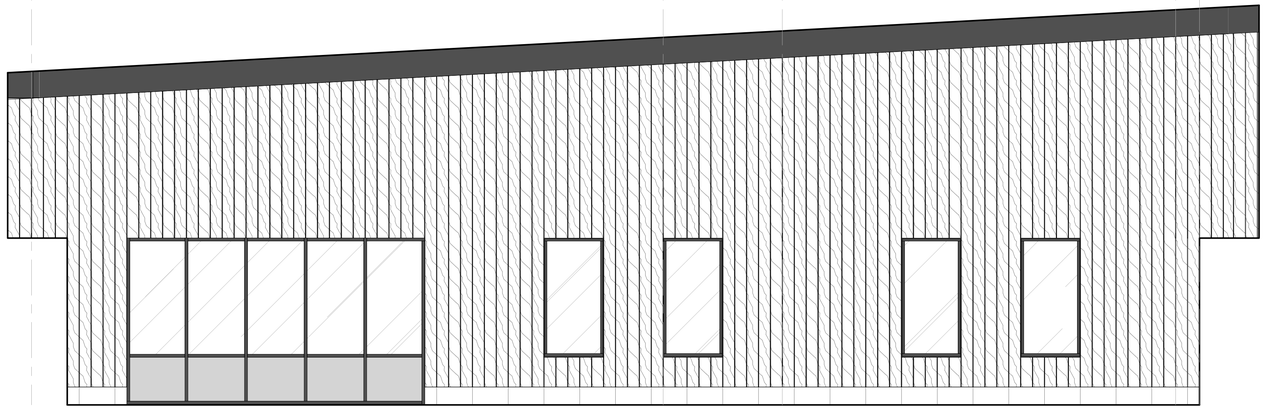
1/4" = 1'-0"



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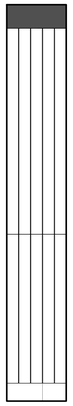
1/4" = 1'-0"



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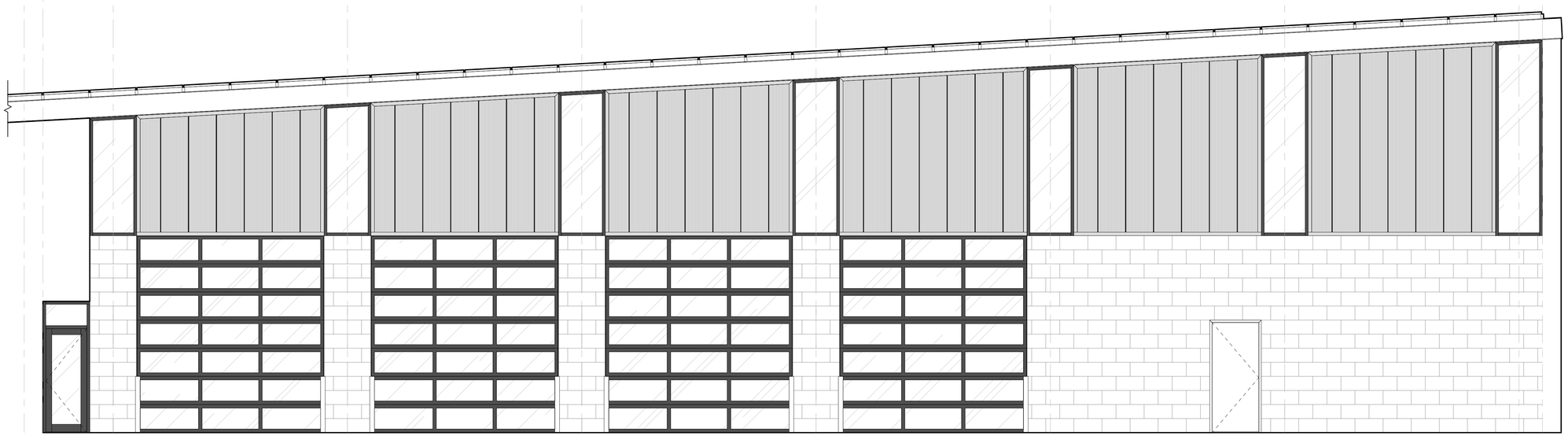
1/4" = 1'-0"



4 ENLARGED ELEVATION
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Key Plan

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PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

DESIGN DEVELOPEMENT
NOT FOR CONSTRUCTION

Drawing

ENLARGED EXTERIOR ELEVATIONS

OPN Project No. xxxxxxxx

A212

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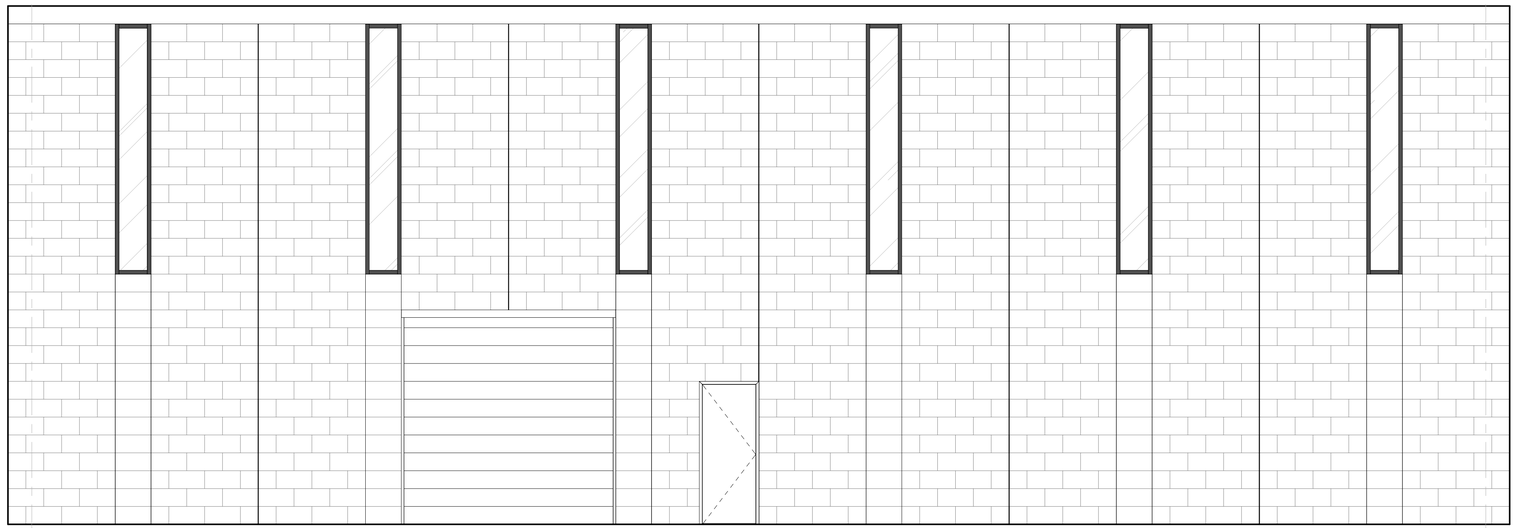

1 ENLARGED ELEVATION
1/4" = 1'-0"

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OPN ARCHITECTS

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UDC INFORMATIONAL	05/24/17

DESIGN DEVELOPEMENT
NOT FOR CONSTRUCTION

Drawing

ENLARGED EXTERIOR ELEVATIONS

OPN Project No. xxxxxxxx

A213

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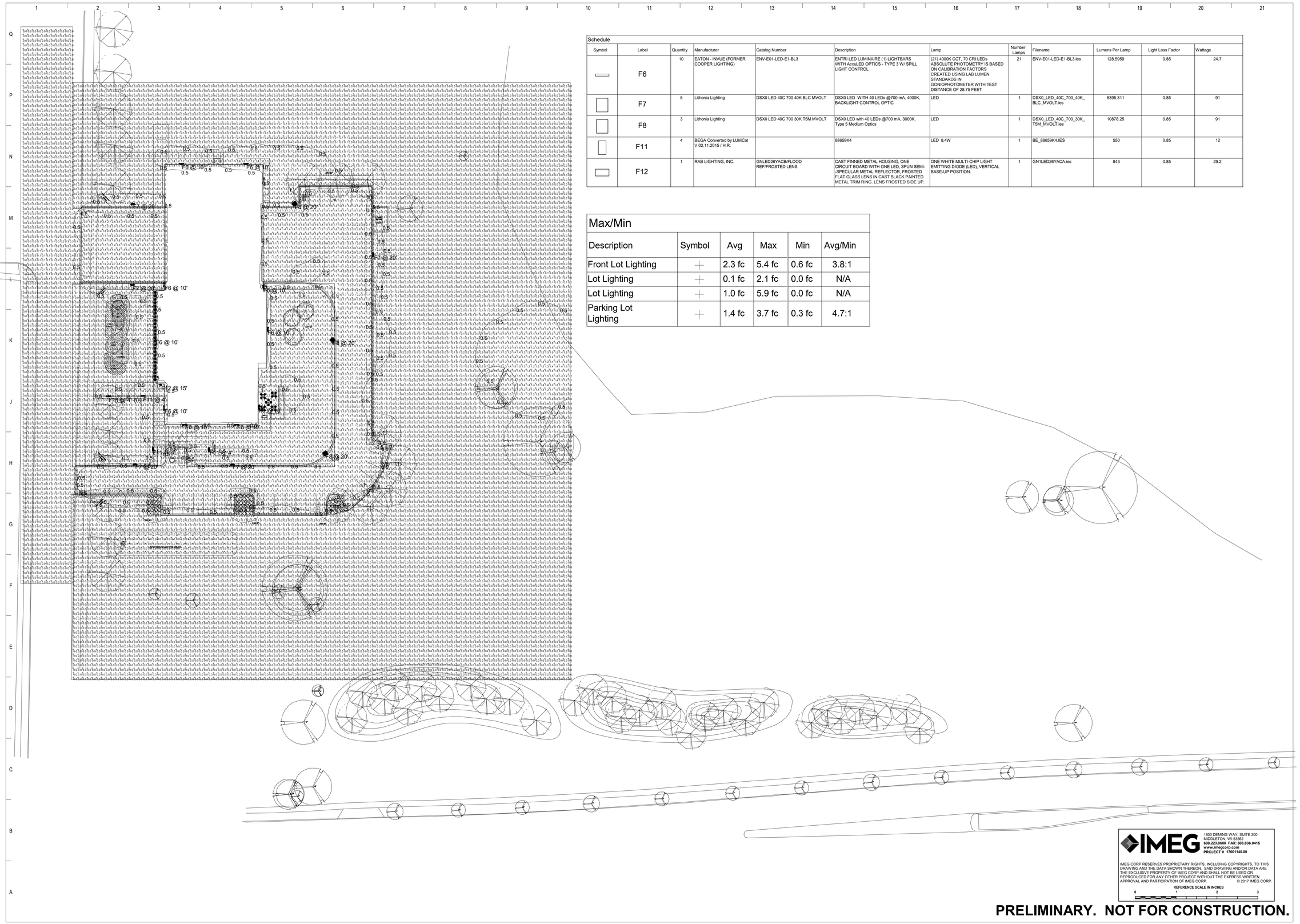

Schedule												
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	F6	10	EATON - INVUE (FORMER COOPER LIGHTING)	ENV-E01-LED-E1-BL3	ENTRI LED LUMINAIRE (1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL	(21) 4000K CCT, 70 CRI LEDs ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET	21	ENV-E01-LED-E1-BL3.ies	128.5959	0.85	24.7
	F7	5	Lithonia Lighting	DSX0 LED 40C 700 40K BLC MVOLT	DSX0 LED WITH 40 LEDs @700 mA, 4000K, BACKLIGHT CONTROL OPTIC	LED	1	DSX0_LED_40C_700_40K_BLC_MVOLT.ies	8395.311	0.85	91
	F8	3	Lithonia Lighting	DSX0 LED 40C 700 30K T5M MVOLT	DSX0 LED with 40 LEDs @700 mA, 3000K, Type 5 Medium Optics	LED	1	DSX0_LED_40C_700_30K_T5M_MVOLT.ies	10878.25	0.85	91
	F11	4	BEGA Converted by LUMCat V 02.11.2015 / H.R.	88659K4	88659K4	LED 8.4W	1	BE_88659K4.IES	550	0.85	12
	F12	1	RAB LIGHTING, INC.	GNLED26YACB/FLOOD REF:FROSTED LENS	CAST FINNED METAL HOUSING, ONE CIRCUIT BOARD WITH ONE LED, SPUN SEMI-.SPECULAR METAL REFLECTOR, FROSTED FLAT GLASS LENS IN CAST BLACK PAINTED METAL TRIM RING. LENS FROSTED SIDE UP.	ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), VERTICAL BASE-UP POSITION.	1	GN1LED26YACA.ies	843	0.85	29.2

Max/Min					
Description	Symbol	Avg	Max	Min	Avg/Min
Front Lot Lighting		2.3 fc	5.4 fc	0.6 fc	3.8:1
Lot Lighting		0.1 fc	2.1 fc	0.0 fc	N/A
Lot Lighting		1.0 fc	5.9 fc	0.0 fc	N/A
Parking Lot Lighting		1.4 fc	3.7 fc	0.3 fc	4.7:1

IMEG
1800 DEMING WAY, SUITE 200
MIDDLETON, WI 53562
608.223.9600 FAX: 608.836.0415
www.imegcorp.com
PROJECT # 17001140.00

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0 1 2 3

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Owner
City of Madison Fire Department
314 W. Dayton St
Madison, WI 53703

Project
Madison Fire Station 14
3201 Dairy Drive
Madison WI, 53718

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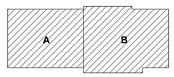
Key Plan



Sheet Issue Date
UDC FINAL - 06/13/17

Revision	Date
DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

PRE - DESIGN
NOT FOR CONSTRUCTION

Drawing
UDC Submittal

OPN Project No. 17207000

E001

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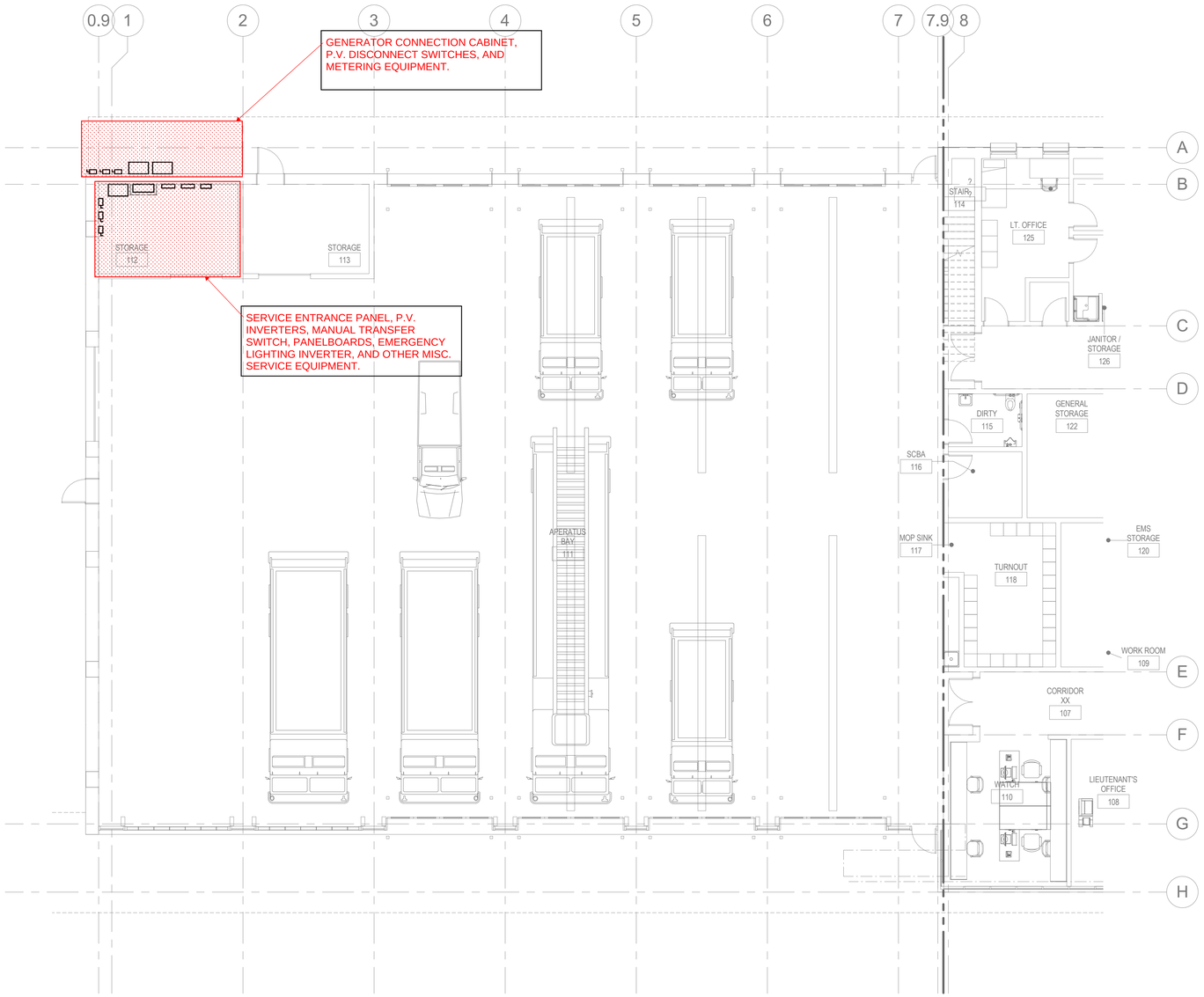

NORTH

1 FLOOR PLAN LEVEL 1 - POWER - A

1/8" = 1'-0"

IMEG
1800 DEMING WAY, SUITE 200
MIDDLETON, WI 53562
608.223.9600 FAX: 608.836.0415
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REFERENCE SCALE IN INCHES
0 1 2 3

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PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

PRE - DESIGN
NOT FOR CONSTRUCTION

Drawing
FLOOR PLAN LEVEL 1 - A - POWER

OPN Project No. 17207000

EP101.A

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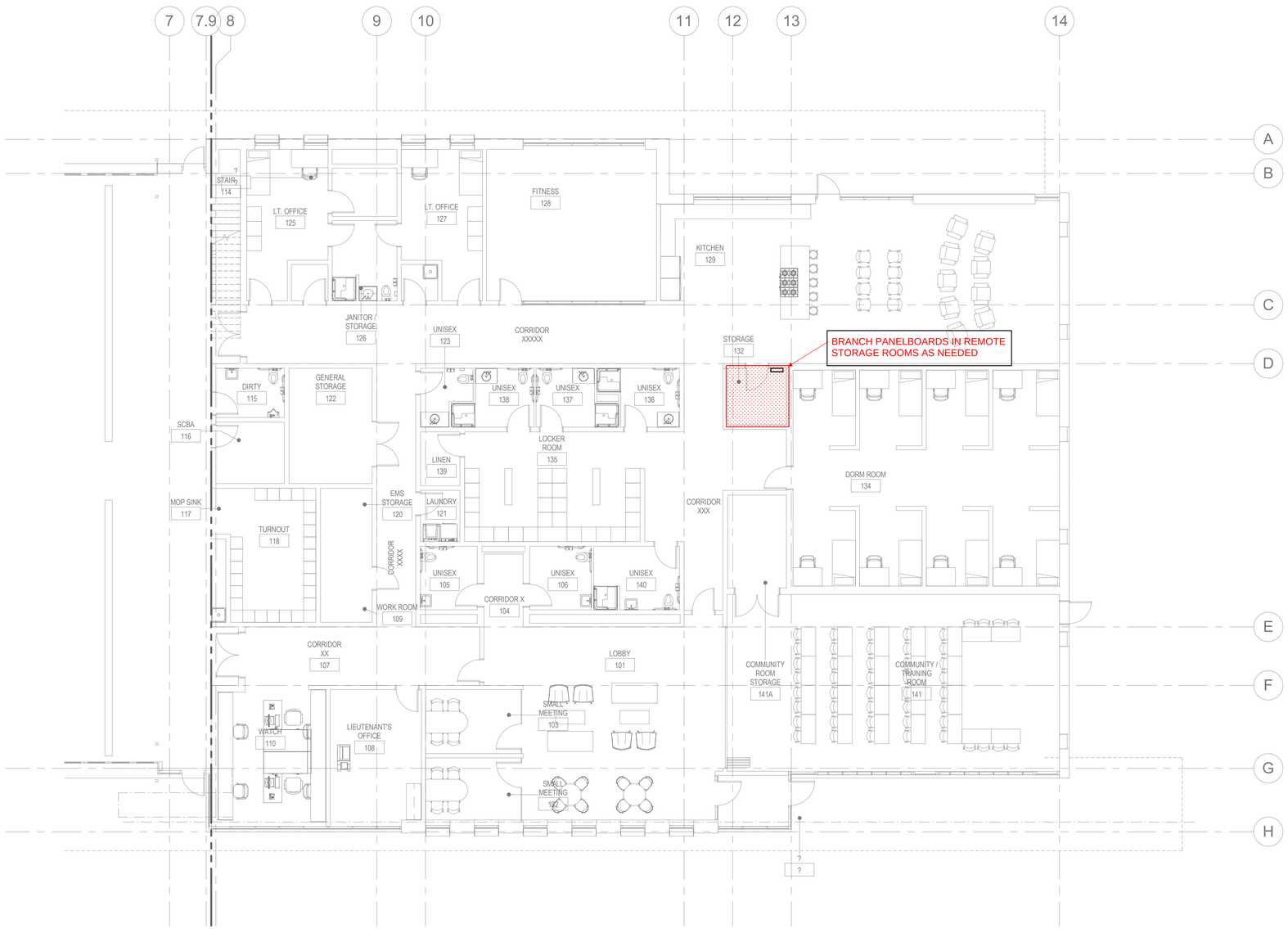

NORTH

1 **FLOOR PLAN LEVEL 1 - POWER - B**

1/8" = 1'-0"

IMEG
1800 DEMING WAY, SUITE 200
MIDDLETON, WI 53562
608.223.9600 FAX: 608.836.0415
www.imegcorp.com
PROJECT # 17001140.00

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REFERENCE SCALE IN INCHES

0 1 2 3

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OPN ARCHITECTS

301 N BROOM STREET #100
MADISON, WI 53703
608-819-0260 PHONE
www.opnarchitects.com
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Owner

City of Madison Fire Department

314 W. Dayton St
Madison, WI 53703

Project

Madison Fire Station 14

3201 Dairy Drive
Madison WI, 53718

Civil Engineer

Snyder & Associates, Inc

5010 Voges Rd
Madison, WI 53718
P. 608-838-0444

Structural Engineer

IMEG

1800 Deming Way #200
Middleton, WI 53562
P. 608-223-9600

Mechanical Engineer

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1800 Deming Way #200
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P. 608-223-9600

Electrical Engineer

IMEG

1800 Deming Way #200
Middleton, WI 53562
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Key Plan

Sheet Issue Date

UDC FINAL - 06/13/17

Revision	Date
DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

PRE - DESIGN
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Drawing

FLOOR PLAN LEVEL 1 - B - POWER

OPN Project No. 17207000

EP101.B

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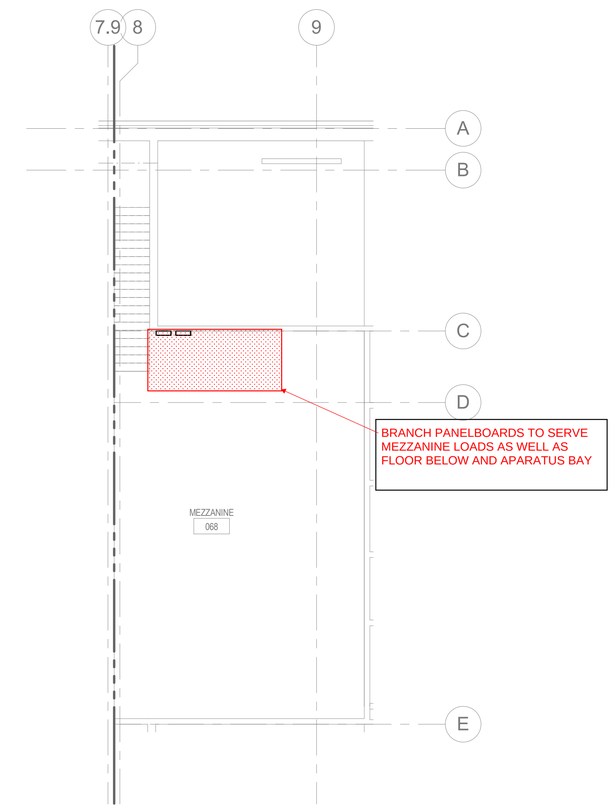

NORTH

1 **MEZZANINE PLAN - POWER**

1/8" = 1'-0"

OPN ARCHITECTS

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MADISON, WI 53703
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Madison, WI 53703

Project

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3201 Dairy Drive
Madison WI, 53718

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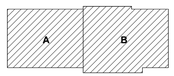
Key Plan



Sheet Issue Date
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PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

PRE - DESIGN
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Drawing

MEZZANINE PLAN - POWER

OPN Project No. 17207000

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PROJECT # 17001140.00

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REFERENCE SCALE IN INCHES
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EP102

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Invue

Catalog #		Type
Project		
Comments		Date
Prepared by		

DESCRIPTION

The Entri LED luminaire features a classic and stylish design with the added benefits of solid state lighting technology, offering outstanding uniformity and energy savings. Using Eaton's proprietary LED LightBAR™ technology and AccuLED Optics™ system, the Entri LED luminaire offers designers vast versatility in system design, function and performance. Use Entri LED for wall mount architectural lighting applications and egress lighting requirements. UL/cUL listed for use in wet locations.

SPECIFICATION FEATURES

Construction
HOUSING: Heavy wall, one-piece, die-cast aluminum construction for precise tolerance control and repeatability in manufacturing. Integral extruded aluminum heat sink provides superior thermal heat transfer in +40°C ambient environments. FACEPLATE / DOOR: One-piece, die-cast aluminum construction. Captive, side hinged faceplate swings open via release of one flush mount die-cast aluminum latch on housing side panel. GASKET: One-piece molded silicone gasket mates perfectly between the door and housing for repeatable seal. LENS: Uplight lens is impact-resistant, 5/32" thick tempered frosted glass sealed to housing with continuous bead silicone gasket. Downlight lens is LED board integrated acrylic over-optics, each individually sealed for IP66 rating. HARDWARE: Stainless steel mounting screws and latch hardware allow access to electrical components for installation and servicing.

Optics
Choice of six patented, high-efficiency AccuLED Optic distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optic technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT.

Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightBARs feature and IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments, occupancy sensor and dimming options available.

Mounting
JUNCTION BOX: Standard with zinc-plated, quick-mount junction box plate that mounts directly to 4" J-Box. LightBARs mount facing downward. Fixture slides over mounting plate and is secured with two stainless steel fasteners. Mounting plate features a one-piece EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates. Optional mounting arrangements utilize a die-cast mounting adaptor box to allow for LED battery pack, surface conduit and through branch wiring. The Entri LED luminaire is approved for mounting on combustible surfaces.

Finish
Housing is finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. LightBAR cover plates are standard white and may be specified to match finish of luminaire housing. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult Outdoor Architectural Colors brochure for a complete selection.

Warranty
Five-year warranty.

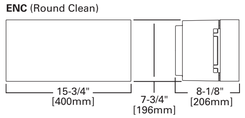
ENC/ENT/ENV
ENTRI LED

1 - 2 LightBARs
Solid State LED

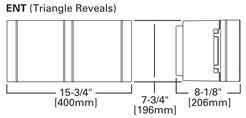
ARCHITECTURAL WALL LUMINAIRE

DIMENSIONS

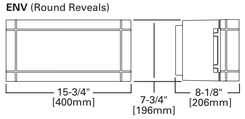
ENC (Round Clean)



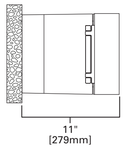
ENT (Triangle Reveals)



ENV (Round Reveals)



CONDUIT MOUNT / BATTERY BACK BOX



CERTIFICATION DATA
UL/cUL Listed
ISO 9001
IP66 LightBARs
LM79 / LM80 Compliant
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-30°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA
Approximate Net Weight:
16 lbs. (7.3 kgs.)

TD514003EN
2015-06-03 10:00:53

Powering Business Worldwide

*www.designlights.org

ENC/ENT/ENV ENTRI LED

POWER AND LUMENS BY BAR COUNT

Number of LightBARs		E01	E02	F01	F02
		21 LED LightBAR		7 LED LightBAR	
Drive Current		350mA		1A	
Power (Watts)	120-277V	25W	47W	26W	50W
Current (A)	120V	0.22	0.40	0.22	0.42
	277V	0.10	0.18	0.10	0.19
Power (Watts)	347V or 480V	31W	52W	32W	55W
Current (A)	347V	0.11	0.16	0.11	0.17
	480V	0.16	0.18	0.16	0.18
Optics					
BL2	Lumens	2,738	5,476	2,260	4,521
	Bug Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
BL3	Lumens	2,702	5,405	2,231	4,462
	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G1
BL4	Lumens	2,613	5,225	2,157	4,313
	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G1
GZW	Lumens	2,785	5,570	2,299	4,598
	Bug Rating	B2-U0-G2	B3-U0-G3	B1-U0-G1	B2-U0-G2
SLR/SLL	Lumens	2,435	4,869	2,010	4,020
	Bug Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2

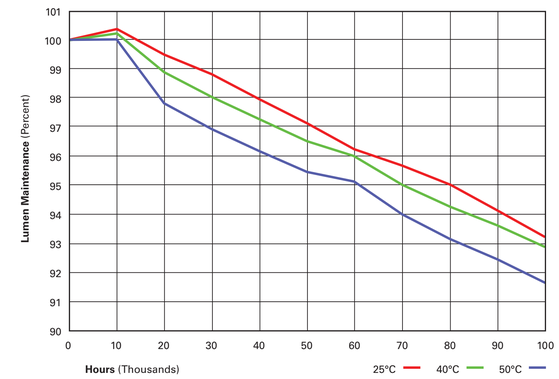
LUMEN MAINTENACE

Ambient Temperature	25,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours	Theoretical L70 (Hours)
25°C	> 99%	> 97%	> 96%	> 93%	> 450,000
40°C	> 98%	> 97%	> 96%	> 92%	> 425,000
50°C	> 97%	> 96%	> 95%	> 91%	> 400,000

* Per IESNA TM-21 data.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99



ORDERING INFORMATION

Sample Number: ENC-E02-LED-E1-BL3-GM

Product Family [1]	Number of LightBARs [2]	Lamp Type	Voltage	Distribution	Color [4]
ENC=Entri Round Clean **ENT**=Entri Triangle Reveals **ENV**=Entri Round Reveals	**E01**=(1) 21 LED LightBAR **E02**=(2) 21 LED LightBARs **F01**=(1) 7 LED LightBAR **F02**=(2) 7 LED LightBARs	**LED**=Solid State Light Emitting Diodes	**E1**=Electronic (120-277V) **347**=347V **480**=480V [3]	**BL2**=Type II w/Back Light Control **BL3**=Type III w/Back Light Control **BL4**=Type IV w/Back Light Control **GZW**=Wall Grazer Wide **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	Accessories (Order Separately) [9]
ULG=Uplight Glow (For Uplight Only) **PC**=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) **WG**=Wire Guard **TP**=Tamper Resistant Hardware **LCF**=LightBAR Cover Plate Matches Housing Finish **7030**=70 CRI / 3000K CCT [5] **7050**=70 CRI / 5000K CCT [5] **7060**=70 CRI / 5700K CCT [5] **8030**=80 CRI / 3000K CCT [5] **OSB**=Occupancy Sensor with Back Box (Specify 120V or 277V) [6] **BBB**=Battery Pack with Back Box (Specify 120V or 277V) [7] **CWB**=Cold Weather Battery Pack with Back Box (Specify 120V or 277V) [8] **DIM**=0-10V Dimming Driver	**VA2001-XX**=Thru-Way Conduit Box **VA6172**=Wire Guard **VA6173**=Tamper-Resistant Driver Bit **MA1253**=10kV Circuit Module Replacement

NOTES:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Standard 4000K CCT and greater than 70 CRI. LightBARs for downlight use only.
3. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems)
4. Custom and RAL color matching available upon request. Consult your lighting representative at Eaton for more information.
5. Extended lead times apply.
6. Available with E02 or F02, only one bar on street side will be wired to sensor. Time delay factory setting 15-minutes. When ordered with PC option, both bars are connected to photocontrol as primary switching means. Standard sensor lens covers 8' mounting height, 360° coverage, maximum 48' diameter. Not available in all configurations or with BBB or CWB options.
7. Specify 120V or 277V. LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates one bar for 90-minutes. Not available in all configurations or with OSB option. Consult factory.
8. Specify 120V or 277V. LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates one bar for 90-minutes. Not available in all configurations or with OSB option. Consult factory.
9. Replace XX with color suffix.

Eaton
1121 Highway 74 South
Peachtree City, GA 30269

Specifications and

TD514003EN

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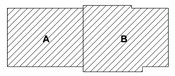
Key Plan



Sheet Issue Date
UDC FINAL - 06/13/17

Revision	Date
DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

SCHEMATIC DESIGN
NOT FOR CONSTRUCTION

Drawing
CUT SHEET

OPN Project No. 17207000

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E201

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D-Series Size 0
LED Area Luminaire

Catalog Number

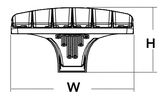
Notes

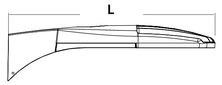
Type

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

Specifications

EPA:	0.95 ft² (.09 m²)
Length:	26″ (66.0 cm)
Width:	13″ (33.0 cm)
Height:	7″ (17.8 cm)
Weight (max):	16 lbs (7.25 kg)





Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX0 LED 40C 1000 40K T3M MVOLT SPA DDBXD

DSX0 LED

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** 20C 20 LEDs (one engine) 40C 40 LEDs (two engines) **Rotated optics**[1] 30C 30 LEDs (one engine)	530 530 mA 700 700 mA 1000 1000 mA (1 A)[2]	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted[3]	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 T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control[2] LCCO Left corner cutoff[2] RCCO Right corner cutoff[2]	MVOLT[4] 120[4] 208[4] 240[4] 277[4] 347[5] 480[5]	**Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor[6] RPUMBA Round pole universal mounting adaptor[6] **Shipped separately**[7] KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)

Control options

Shipped installed

PER	NEMA twist-lock receptacle only (no controls)[8]
PER5	Five-wire receptacle only (no controls)[8,9]
PER7	Seven-wire receptacle only (no controls)[8,9]
DMG	0-10V dimming driver (no controls)[10]
DCR	Dimmable and controllable via ROAM® (no controls)[11]
PIR	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[12]
PIRH	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[12]
PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[12]
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[12]
BL30	Bi-level switched dimming, 30%[13,14]
BL50	Bi-level switched dimming, 50%[13,14]
PNMTDD3	Part night, dim till dawn[15]
PNMT5D3	Part night, dim 5 hrs[15]
PNMT6D3	Part night, dim 6 hrs[15]
PNMT7D3	Part night, dim 7 hrs[15]

Other options

Shipped installed

HS	House-side shield[16]
SF	Single fuse (120, 277, 347V)[17]
DF	Double fuse (208, 240, 480V)[17]
L90	Left rotated optics[1]
R90	Right rotated optics[1]
DDL	Diffused drop lens[16]

Finish *(required)*

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white

Accessories
Ordered and shipped separately.

Controls & Shields

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V)[18]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V)[18]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V)[18]
SC U	Shorting cap[18]
DSX0HS 20C U	House-side shield for 20 LED unit[16]
DSX0HS 30C U	House-side shield for 30 LED unit[16]
DSX0HS 40C U	House-side shield for 40 LED unit[16]
DSX0DDL U	Diffused drop lens (polycarbonate)[16]
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish)
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish)[7]

For more control options, visit DTL and ROAM online.

NOTES

1 30 LEDs (30C option) and rotated options (L90 or R90) only available together.
2 Not available with AMBPC.
3 AMBPC only available with 530mA or 700mA.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120V, 208V, 240V or 277V options only when ordering with fusing (SF, DF options).
5 Not available with single board, 530mA product (20C 530 or 30C 530). Not available with BL30, BL50 or PNMT options.
6 Available as a separate combination accessory: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
7 Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
8 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories.
9 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR.
10 DMG option for 347V or 480V requires 1000mA.
11 Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net. N/A with PIR options PER5, PER7, BL30, BL50 or PNMT options.
12 PIR and PIR1FC3V specify the SensorSwitch SBGR-10-ODP control; PIRH and PIRH1FC3V specify the SensorSwitch SBGR-6-ODP control; see Motion Sensor Guide for details. Dimming driver standard. Not available with PER5 or PER7. Ambient sensor disabled when ordered with DCR. Separate on/off required.
13 Requires an additional switched circuit.
14 Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, PER5, PER7 or PNMT options.
15 Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, PER5, PER7, BL30 or BL50.
16 Also available as a separate accessory; see Accessories information.
17 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
18 Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.

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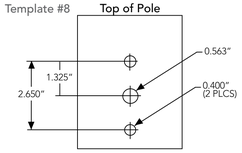
Drilling

Template #8



DSX0 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS	Single unit	**DM29AS**	2 at 90° *
DM28AS	2 at 180°	**DM39AS**	3 at 90° *
DM49AS	4 at 90° *	**DM32AS**	3 at 120° **

Example: SSA 20 4C **DM19AS** DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.
*Round pole top must be 3.25" O.D. minimum.
**For round pole mounting (RPA) only.

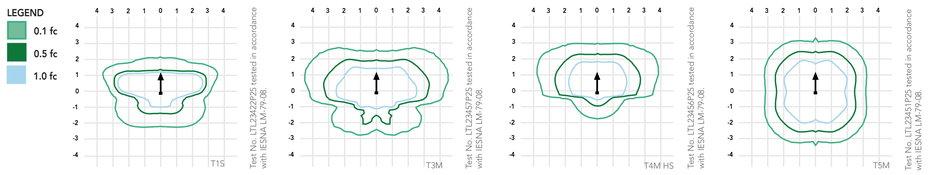
Tenon Mounting Slipfitter **

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

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area homepage.

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



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	**77°F**	**1.00**
30°C	86°F	1.00
40°C	104°F	0.99

Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A) 120	208	240	277	347	480
20C	530	35	0.34	0.22	0.21	0.20	--	--
	700	45	0.47	0.28	0.24	0.22	0.18	0.14
	1000	72	0.76	0.45	0.39	0.36	0.36	0.26
30C	530	52	0.51	0.31	0.28	0.25	--	--
	700	70	0.72	0.43	0.37	0.34	0.25	0.19
	1000	104	1.11	0.64	0.56	0.49	0.47	0.34
40C	530	68	0.71	0.41	0.36	0.33	0.25	0.19
	700	91	0.94	0.55	0.48	0.42	0.33	0.24
	1000	138	1.45	0.84	0.73	0.64	0.69	0.50

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	DSX0 LED 20C 1000			
	1	0.98	0.96	0.93
	DSX0 LED 40C 1000			
	1	0.98	0.95	0.90
	DSX0 LED 40C 700			
	1	0.99	0.99	0.99

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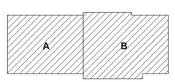
Key Plan



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PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

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Drawing
CUT SHEET

OPN Project No. 17207000

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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

LEDs	Drive Current (mA)	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
20C (20 LEDs)	530 mA	35 W	T1S	4,079	1	0	1	117	4,380	1	0	1	125	4,408	1	0	1	126	2,541	1	0	1	73
			T2S	4,206	1	0	1	120	4,516	1	0	1	129	4,544	1	0	1	130	2,589	1	0	1	74
			T2M	4,109	1	0	1	117	4,413	1	0	1	126	4,440	1	0	1	127	2,539	1	0	1	73
			T3S	4,104	1	0	1	117	4,407	1	0	1	126	4,435	1	0	1	127	2,558	1	0	1	73
			T3M	4,142	1	0	1	118	4,447	1	0	1	127	4,475	1	0	1	128	2,583	1	0	1	74
			T4M	4,198	1	0	1	120	4,508	1	0	1	129	4,536	1	0	1	130	2,570	1	0	1	73
			TFTM	4,135	1	0	1	118	4,440	1	0	2	127	4,468	1	0	2	128	2,540	1	0	1	73
			T5VS	4,368	2	0	0	125	4,691	2	0	0	134	4,720	2	0	0	135	2,650	1	0	0	76
			T5S	4,401	2	0	2	126	4,725	2	0	0	135	4,755	2	0	0	136	2,690	1	0	0	77
			T5M	4,408	2	0	1	126	4,734	3	0	1	135	4,763	3	0	1	136	2,658	2	0	0	76
			T5W	4,344	3	0	1	124	4,664	3	0	1	133	4,693	3	0	1	134	2,663	2	0	1	76
			BLC	3,071	1	0	1	88	3,297	1	0	1	94	3,318	1	0	1	95					
			LCCO	2,983	1	0	1	85	3,204	1	0	1	92	3,224	1	0	1	92					
			RCCO	2,983	1	0	1	85	3,204	1	0	1	92	3,224	1	0	1	92					
	700 mA	45 W	T1S	5,181	1	0	1	115	5,563	1	0	1	124	5,598	1	0	1	124	3,144	1	0	1	70
			T2S	5,342	1	0	1	119	5,736	1	0	1	127	5,772	1	0	1	128	3,203	1	0	1	71
			T2M	5,219	1	0	1	116	5,605	1	0	1	125	5,640	1	0	1	125	3,141	1	0	1	70
			T3S	5,213	1	0	1	116	5,598	1	0	1	124	5,633	1	0	1	125	3,165	1	0	1	70
			T3M	5,260	1	0	1	117	5,649	1	0	2	126	5,684	1	0	2	126	3,196	1	0	1	71
			T4M	5,332	1	0	1	118	5,725	1	0	2	127	5,761	1	0	2	128	3,179	1	0	1	71
			TFTM	5,252	1	0	2	117	5,640	1	0	2	125	5,675	1	0	2	126	3,143	1	0	1	70
			T5VS	5,548	2	0	0	123	5,958	2	0	0	132	5,995	2	0	0	133	3,278	2	0	0	73
			T5S	5,589	2	0	0	124	6,002	2	0	0	133	6,039	2	0	0	134	3,328	2	0	0	74
			T5M	5,599	3	0	1	124	6,012	3	0	1	134	6,050	3	0	1	134	3,288	2	0	1	73
			T5W	5,517	3	0	1	123	5,924	3	0	1	132	5,961	3	0	1	132	3,295	2	0	1	73
			BLC	3,909	1	0	1	87	4,198	1	0	1	93	4,224	1	0	1	94					
			LCCO	3,798	1	0	1	84	4,078	1	0	1	91	4,104	1	0	1	91					
			RCCO	3,798	1	0	1	84	4,078	1	0	1	91	4,104	1	0	1	91					
	1000 mA	72 W	T1S	7,085	1	0	1	98	7,608	2	0	2	106	7,656	2	0	2	106					
			T2S	7,305	1	0	1	101	7,845	2	0	2	109	7,894	2	0	2	110					
			T2M	7,138	1	0	2	99	7,665	2	0	2	106	7,713	2	0	2	107					
			T3S	7,129	1	0	1	99	7,656	2	0	2	106	7,704	2	0	2	107					
			T3M	7,194	1	0	2	100	7,725	2	0	2	107	7,773	2	0	2	108					
			T4M	7,292	1	0	2	101	7,830	2	0	2	109	7,879	2	0	2	109					
			TFTM	7,183	1	0	2	100	7,713	1	0	2	107	7,761	1	0	2	108					
			T5VS	7,588	2	0	0	105	8,148	3	0	0	113	8,199	3	0	0	114					
			T5S	7,644	2	0	0	106	8,208	2	0	0	114	8,259	2	0	0	115					
			T5M	7,657	3	0	1	106	8,222	3	0	1	114	8,274	3	0	1	115					
			T5W	7,545	3	0	1	105	8,102	3	0	2	113	8,153	3	0	2	113					
			BLC	5,162	1	0	1	72	5,543	1	0	2	77	5,578	1	0	1	77					
			LCCO	5,015	1	0	2	70	5,386	1	0	2	75	5,419	1	0	2	75					
			RCCO	5,015	1	0	2	70	5,386	1	0	2	75	5,419	1	0	2	75					

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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

LEDs	Drive Current (mA)	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
40C (40 LEDs)	530 mA	68 W	T1S	7,926	2	0	2	117	8,511	2	0	2	125	8,564	2	0	2	126	4,878	1	0	1	72
			T2S	8,172	2	0	2	120	8,775	2	0	2	129	8,830	2	0	2	130	4,969	1	0	1	73
			T2M	7,985	2	0	2	117	8,574	2	0	2	126	8,628	2	0	2	127	4,874	1	0	1	72
			T3S	7,975	1	0	2	117	8,564	2	0	2	126	8,617	2	0	2	127	4,910	1	0	1	72
			T3M	8,047	2	0	2	118	8,642	2	0	2	127	8,696	2	0	2	128	4,958	1	0	2	73
			T4M	8,157	1	0	2	120	8,759	2	0	2	129	8,813	2	0	2	130	4,932	1	0	2	73
			TFTM	8,035	1	0	2	118	8,628	2	0	2	127	8,682	2	0	2	128	4,876	1	0	2	72
			T5VS	8,488	2	0	0	125	9,115	3	0	0	134	9,172	3	0	0	135	5,086	2	0	0	75
			T5S	8,550	2	0	0	126	9,182	3	0	1	135	9,239	3	0	1	136	5,163	2	0	0	76
			T5M	8,565	3	0	1	126	9,198	3	0	2	135	9,255	3	0	2	136	5,102	3	0	1	75
			T5W	8,440	3	0	2	124	9,063	3	0	2	133	9,120	3	0	2	134	5,112	3	0	1	75
			BLC	6,142	1	0	2	90	6,595	1	0	2	97	6,636	1	0	2	98					
			LCCO	5,967	1	0	2	88	6,407	1	0	2	94	6,447	1	0	2	95					
			RCCO	5,967	1	0	2	88	6,407	1	0	2	94	6,447	1	0	2	95					
	700 mA	91 W	T1S	10,066	2	0	2	111	10,810	2	0	2	119	10,877	2	0	2	120	6,206	2	0	2	68
			T2S	10,379	2	0	2	114	11,145	2	0	2	122	11,215	2	0	2	123	6,322	2	0	2	69
			T2M	10,141	2	0	2	111	10,890	2	0	2	120	10,958	2	0	2	120	6,201	2	0	2	68
			T3S	10,129	2	0	2	111	10,877	2	0	2	120	10,945	2	0	2	120	6,247	1	0	2	69
			T3M	10,221	2	0	2	112	10,975	2	0	2	121	11,044	2	0	2	121	6,308	2	0	2	69
			T4M	10,359	2	0	2	114	11,124	2	0	2	122	11,194	2	0	2	123	6,275	1	0	2	69
			TFTM	10,205	2	0	2	112	10,958	2	0	3	120	11,027	2	0	3	121	6,203	1	0	2	68
			T5VS	10,781	3	0	0	118	11,576	3	0	1	127	11,649	3	0	1	128	6,569	2	0	0	72
			T5S	10,860	3	0	1	119	11,662	3	0	1	128	11,734	3	0	1	129	6,569	2	0	0	72
			T5M	10,879	3	0	2	120	11,682	3	0	2	128	11,755	3	0	2	129	6,491	3	0	1	71
			T5W	10,719	3	0	2	118	11,511	4	0	2	126	11,583	4	0	2	127	6,504	3	0	2	71
			BLC	7,819	1	0	2	86	8,396	1	0	2	92	8,448	1	0	2	93					
			LCCO	7,596	1	0	2	83	8,157	1	0	2	90	8,208	1	0	2	90					
			RCCCO	7,596	1	0	2	83	8,157	1	0	2	90	8,208	1	0	2	90					
	1000 mA	138 W	T1S	13,767	2	0	2	100	14,783	3	0	3	107	14,876	3	0	3	108					
			T2S	14,194	2	0	2	103	15,242	3	0	3	110	15,338	3	0	3	111					
			T2M	13,869	2	0	2	101	14,893	3	0	3	108	14,986	3	0	3	109					
			T3S	13,852	2	0	2	100	14,875	2	0	2	108	14,968	2	0	2	108					
			T3M	13,978	2	0	2	101	15,010	3	0	3	109	15,104	3	0	3	109					
			T4M	14,168	2	0	2	103	15,214	3	0	3	110	15,309	3	0	3	111					
			TFTM	13,956	2	0	3	101	14,987	2	0	3	109	15,080	2	0	3	109					
			T5VS	14,744	3	0	1	107	15,832	3	0	1	115	15,931	4	0	1	115					
			T5S	14,852	3	0	1	108	15,948	3	0	1	116	16,048	3	0	1	116					
			T5M	14,878	4	0	2	108	15,976	4	0	2	116	16,076	4	0	2	116					
			T5W	14,660	4	0	2	106	15,742	4	0	2	114	15,840	4	0	2	115					
			BLC	10,325	1	0	2	75	11,087	1	0	2	80	11,156	1	0	2	81					
			LCCO	10,031	2	0	2	73	10,771	2	0	3	78	10,839	2	0	3	79					
			RCCO	10,031	2	0	2	73	10,771	2	0	3	78	10,839	2	0	3	79					

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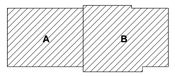
Key Plan



Sheet Issue Date
UDC FINAL - 06/13/17

Revision	Date
DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

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Drawing
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OPN Project No. 17207000

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Performance Data

L90 and R90 Rotated Optics

LEDs	Drive Current (mA)	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
30C (30 LEDs)	530 mA	52 W	T1S	6,130	2	0	2	118	6,583	2	0	2	127	6,624	2	0	2	127	3,841	2	0	2	74
			T2S	6,321	2	0	2	122	6,787	2	0	2	131	6,830	3	0	3	131	3,912	2	0	2	75
			T2M	6,176	2	0	2	119	6,632	3	0	3	128	6,673	3	0	3	128	3,837	2	0	2	74
			T3S	6,168	2	0	2	119	6,624	3	0	3	127	6,665	3	0	3	128	3,866	2	0	2	74
			T3M	6,224	3	0	3	120	6,684	3	0	3	129	6,726	3	0	3	129	3,904	2	0	2	75
			T4M	6,309	3	0	3	121	6,775	3	0	3	130	6,817	3	0	3	131	3,884	2	0	2	75
			TFTM	6,215	3	0	3	120	6,673	3	0	3	128	6,715	3	0	3	129	3,839	2	0	2	74
			T5VS	6,565	2	0	0	126	7,050	2	0	0	136	7,094	2	0	0	136	4,005	2	0	0	77
			T5S	6,613	2	0	0	127	7,102	2	0	0	137	7,146	2	0	0	137	4,065	2	0	0	78
			T5M	6,625	3	0	1	127	7,114	3	0	1	137	7,159	3	0	1	138	4,017	2	0	1	77
			T5W	6,528	3	0	1	126	7,010	3	0	2	135	7,054	3	0	2	136	4,025	3	0	1	77
			BLC	4,747	2	0	2	91	5,098	2	0	2	98	5,130	2	0	2	99					
			LCCO	4,612	1	0	2	89	4,953	1	0	2	95	4,984	1	0	2	96					
			RCCO	4,612	1	0	2	89	4,953	1	0	2	95	4,984	1	0	2	96					
	700 mA	70 W	T1S	7,786	2	0	2	111	8,361	3	0	3	119	8,413	3	0	3	120	4,783	2	0	2	68
			T2S	8,028	2	0	2	115	8,620	3	0	3	123	8,674	3	0	3	124	4,873	2	0	2	70
			T2M	7,844	3	0	3	112	8,423	3	0	3	120	8,476	3	0	3	121	4,779	2	0	2	68
			T3S	7,834	3	0	3	112	8,413	3	0	3	120	8,465	3	0	3	121	4,815	2	0	2	69
			T3M	7,905	3	0	3	113	8,489	3	0	3	121	8,542	3	0	3	122	4,862	3	0	3	69
			T4M	8,013	3	0	3	114	8,604	3	0	3	123	8,658	3	0	3	124	4,837	3	0	3	69
			TFTM	7,893	3	0	3	113	8,476	3	0	3	121	8,529	3	0	3	122	4,781	3	0	3	68
			T5VS	8,338	2	0	0	119	8,954	3	0	0	128	9,010	3	0	0	129	4,988	2	0	0	71
			T5S	8,400	2	0	0	120	9,020	3	0	1	129	9,076	3	0	1	130	5,063	2	0	0	72
			T5M	8,414	3	0	1	120	9,036	3	0	2	129	9,092	3	0	2	130	5,003	3	0	1	71
			T5W	8,291	3	0	2	118	8,903	3	0	2	127	8,959	3	0	2	128	5,013	3	0	1	72
			BLC	6,044	2	0	2	86	6,490	3	0	3	93	6,530	3	0	3	93					
			LCCO	5,872	1	0	2	84	6,305	1	0	2	90	6,345	1	0	2	91					
			RCCO	5,872	1	0	2	84	6,305	1	0	2	90	6,345	1	0	2	91					
	1000 mA	104 W	T1S	10,648	3	0	3	102	11,434	3	0	3	110	11,506	3	0	3	111					
			T2S	10,979	3	0	3	106	11,789	3	0	3	113	11,863	3	0	3	114					
			T2M	10,727	3	0	3	103	11,519	3	0	3	111	11,591	3	0	3	111					
			T3S	10,714	3	0	3	103	11,505	3	0	3	111	11,577	3	0	3	111					
			T3M	10,812	3	0	3	104	11,610	4	0	4	112	11,682	4	0	4	112					
			T4M	10,958	3	0	3	105	11,767	3	0	3	113	11,841	3	0	3	114					
			TFTM	10,795	3	0	3	104	11,592	3	0	3	111	11,664	4	0	4	112					
			T5VS	11,404	3	0	0	110	12,245	3	0	1	118	12,322	3	0	1	118					
			T5S	11,487	3	0	1	110	12,336	3	0	1	119	12,413	3	0	1	119					
			T5M	11,508	3	0	2	111	12,357	4	0	2	119	12,434	4	0	2	120					
			T5W	11,339	4	0	2	109	12,176	4	0	2	117	12,252	4	0	2	118					
			BLC	7,981	3	0	3	77	8,570	3	0	3	82	8,624	3	0	3	83					
			LCCO	7754	1	0	2	75	8326	2	0	2	80	8378	2	0	2	81					
			RCCO	7754	1	0	2	75	8326	2	0	2	80	8378	2	0	2	81					

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 streetscapes.

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 (0.8 ft^2) 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 standard 4000 K (70 minimum CRI) or optional 3000 K (70 minimum CRI) 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 L96/100,000 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 or 6kV 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. Optional terminal block, tool-less entry, 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) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY
5-year limited warranty. Complete warranty terms located at 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.

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50.16 · Technical amendments reserved

BEGA Lichttechnische Spezialfabrik
Hennenbusch · D - 58708 Menden

BEGA

Product data sheet — Bollard — IP 65 — **88 659**

Project · Reference number — Date

Application
Shielded LED bollard with square profile and broad spread light distribution.
For the illumination of squares, access roads and entry areas.
The used LED technique offers durability and optimal light output with low power consumption at the same time.

Product description
Luminaire made of aluminium profile, aluminium alloy, aluminium and stainless steel
Safety glass with optical structure
Silicone gasket
Reflectors with mirror finish coating
Luminaire with mounting plate for bolting onto a foundation or an anchorage unit
Mounting plate with two pitch circles:
ø 70 mm, 3 elongated holes 7 mm wide
ø 100 mm, 3 elongated holes 9 mm wide
Connection box for through-wiring
– for 2 cables up to 5 × 2,5□
Fuse terminal with micro fuse
6.3 A slow ø 5 × 20 mm
LED power supply unit
220-240 V ∿ 0/50-60 Hz
DC 176-280 V
Safety class I
Protection class IP 65
Dust-tight and protection against water jets
Impact strength IK07
Protection against mechanical impacts < 2 joule
– Safety mark
CE – Conformity mark
Weight: 7.0 kg

Inrush current
Inrush current: 20 A / 80 µs
Maximum number of luminaires of this type per miniature circuit breaker:
B 10 A: 35 luminaires
B 16 A: 56 luminaires
C 10 A: 58 luminaires
C 16 A: 94 luminaires

Lamp

Module connected wattage	8.2 W
Luminaire connected wattage	10.3 W
Rated temperature	t_a = 25 °C
Ambient temperature	$t_{a\,max}$ = 50 °C

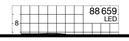
88 659

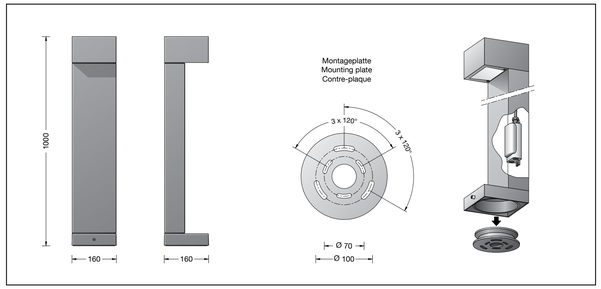
Module designation	2x LED-0233/830
Colour temperature	3000 K
Colour rendering index	R_a > 80
Module luminous flux	1130 lm
Luminaire luminous flux	550 lm
Luminaire luminous efficiency	53,4 lm/W

88 659 K4

Module designation	2x LED-0233/840
Colour temperature	4000 K
Colour rendering index	R_a > 80
Module luminous flux	1130 lm
Luminaire luminous flux	550 lm
Luminaire luminous efficiency	53,4 lm/W

Light distribution





Lifetime of the LED
Ambient temperature t_a = 15 °C
– at 50,000 h: L90 B10
– at > 500,000 h: L70 B50

Ambient temperature t_a = 25 °C
– at 50,000 h: L90 B10
– at > 500,000 h: L70 B50

max. ambient temperature t_a = 50 °C
– at 50,000 h: L90 B50
– at 149,000 h: L70 B50

Article No. 88 659
LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Colour graphite or silver
graphite – article number
silver – article number + **A**

Accessory
70 895 Anchorage unit
Anchorage unit with mounting flange made of galvanised steel. Total length 400 mm.
3 stainless steel fixing screws M 8.
Pitch circle ø 100 mm.

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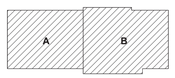
Key Plan



Sheet Issue Date
UDC FINAL - 06/13/17

Revision	Date
DAT MEETING	03/30/17
PUBLIC MEETING	05/08/17
PRE APPLICATION	05/19/17
UDC INFORMATIONAL	05/24/17

SCHEMATIC DESIGN NOT FOR CONSTRUCTION

Drawing
CUT SHEET

OPN Project No. 17207000

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E204

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GN1LED26YACA

RAB LIGHTING

13 & 26 Watt Angled Cone Shade LED Gooseneck Luminaire designed to match the architecture of Main Street storefronts and building perimeters. LED Gooseneck Cone Shade with 24" Goose Arm Style 1.

Color: Bronze Weight: 11.0 lbs

Project:	**Type:**
Prepared By:	**Date:**

Driver Info

Type:	Constant Current
120V:	0.25A
208V:	0.16A
240V:	0.14A
277V:	0.12A
Input Watts:	29W
Efficiency:	89%

LED Info

Watts:	26W
Color Temp:	3000K
Color Accuracy:	82 CRI
L70 Lifespan:	100000
Lumens:	844
Efficacy:	29 LPW

Technical Specifications

LED Characteristics

Color Accuracy (CRI):

CRI can change due to the fixture color. Please contact the RAB Lighting Design department for more details.

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

LED:

Single multi-chip, 26W high-output, long-life LED.

Correlated Color Temp. (Nominal CCT):

3000K

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.

Listings

UL Listing:

Suitable for wet locations. Suitable for mounting within 1.2m (4ft) of the ground.

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

Sensor Characteristics

Lead Time:

3 weeks expedited shipping. 6 weeks standard shipping.

Construction

Fixture:

The GN1LED26YACA comes with the GOOSE1A arm.

Housing:

Precision die-cast aluminum housing, lens frame and mounting plate.

Gaskets:

High Temperature Silicone

Mounting:

Heavy-duty mounting arm with "O" ring seal and stainless steel screw.

Cold Weather Starting:

Minimum starting temperature is -40° F (-40° C)

Finish:

Formulated for high-durability and long lasting color.

Green Technology:

Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

Electrical

Driver:

Constant Current, Class 2, 100-277V, 50/60 Hz, 0.48 A, THD≤20%, PF 97.9%.

Surge Protection:

4kv

Other

Shades:

15" Angled Cone Shade offered.

California Title 24:

Goosenecks complies with 2013 California Title 24 building and electrical codes as a commercial outdoor non-pole-mounted fixture < 30 Watts when used with a photosensor control. Select catalog number PCS900(120V) or PCS900/277 to order a photosensor.

Patents:

The design of the Gooseneck is protected by patents pending in US, Canada, China and Taiwan.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. See our full warranty

Country of Origin:

Designed by RAB in New Jersey and assembled in Taiwan.

Trade Agreements Act Compliant:

This product is a product of Taiwan and a "designated country" end product that complies with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

Equivalency:

Equivalent 120W incandescent, 75W Metal Halide or 42W CFL.

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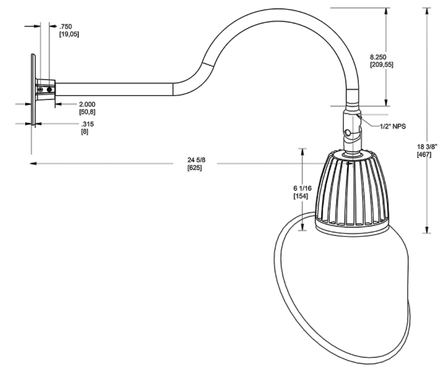
GN1LED26YACA

RAB LIGHTING

Dimensions



Features

Adjustable 45° swivel joint

Superior heat sink

Die-cast aluminum housing

5 year LED warranty

Ordering Matrix

Family	Watts	Color Temp	Reflector	Shade	ShadeSize	Finish
GN1LED	26	Y		AC		A
	13 = 13W **26** = 26W	**Y** = 3000K (Warm) **N** = 4000K (Neutral)	**Blank** = Flood **R** = Rectangular **S** = Spot	**AC** = Angled Cone	**11** = 11" **Blank** = 15"	**B** = Black **W** = White **A** = Bronze **S** = Silver **G** = Hunter Green **YL** = Yellow **LB** = Light Blue **BL** = Royal Blue **BWN** = Brown **I** = Ivory **R** = Red

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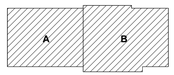
Key Plan



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E205

WEST ELEVATION

NORTH ELEVATION

SOUTH ELEVATION

EAST ELEVATION

MADISON FIRE DEPARTMENT
FIRE STATION 14

OPN ARCHITECTS