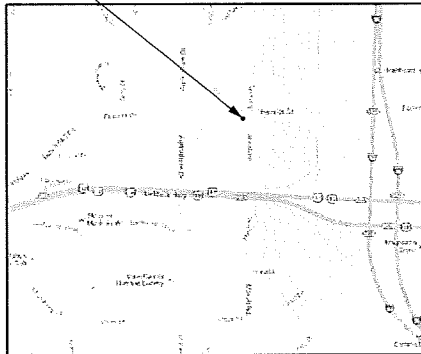


5417 FEMRITE DRIVE PARKING LOT BADGER BUS CITY OF MADISON, DANE COUNTY

APPLICATION REVIEW DRAWINGS DECEMBER 2014



SITE LOCATION



SITE LOCATION MAP
SCALE: NTS

PROJECT DIRECTORY:

ENGINEER:
EDGE CONSULTING ENGINEERS, INC.
624 WATER STREET
PRAIRIE DU SAC, WI 53578
CONTACT: BRIAN BEAULIEU
PHONE: (608) 644-1449

OWNER:
5513 FEMRITE, LLC
5501 FEMRITE DRIVE
MADISON, WI 53718
CONTACT: DAVID MEIER
PHONE: (608) 255-1511

PROJECT INFO:

SITE LOCATION:
5417 FEMRITE DRIVE
MADISON, WI 53718

PLSS LOCATION:
SE 1/4 OF THE SE 1/4,
SEC 22, T7N, R10E,
CITY OF MADISON,
DANE COUNTY,
WISCONSIN

ZONING:
EXISTING - IL (INDUSTRIAL LIMITED)
PROPOSED - IL (INDUSTRIAL LIMITED)

PARCEL NO:
071022400924

PROJECT AREAS:
TOTAL LOT AREA - 9.427 ACRES - 18,615 SF
TOTAL DISTURBED AREA - 17,220 SF
EXISTING IMPERVIOUS AREA - 4,720 SF
ADDITIONAL IMPERVIOUS AREA - 7,992 SF
TOTAL IMPERVIOUS AREA - 12,712 SF (68.3%)
TOTAL PERVIOUS AREA - 5,903 SF (31.7%)

SHEET INDEX:

NO.: PAGE TITLE

G001	TITLE SHEET
C101	DEMOLITION PLAN
C102	SITE PLAN
C103	GRADING PLAN
C501	CONSTRUCTION DETAILS
C502	CONSTRUCTION DETAILS
L100	LANDSCAPING PLAN



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

CALL DIGGERS' HOTLINE
1-800-242-8511
TOLL FREE
FAX A LOCATE 1-800-338-3860
TDD/VOICED (HEARING IMPAIRED) 1-800-542-2289
WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

ENGINEER SEAL:

PRELIMINARY
NOT FOR CONSTRUCTION

I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY
ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A
DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF WISCONSIN.

SIGNATURE: _____

DATE: _____



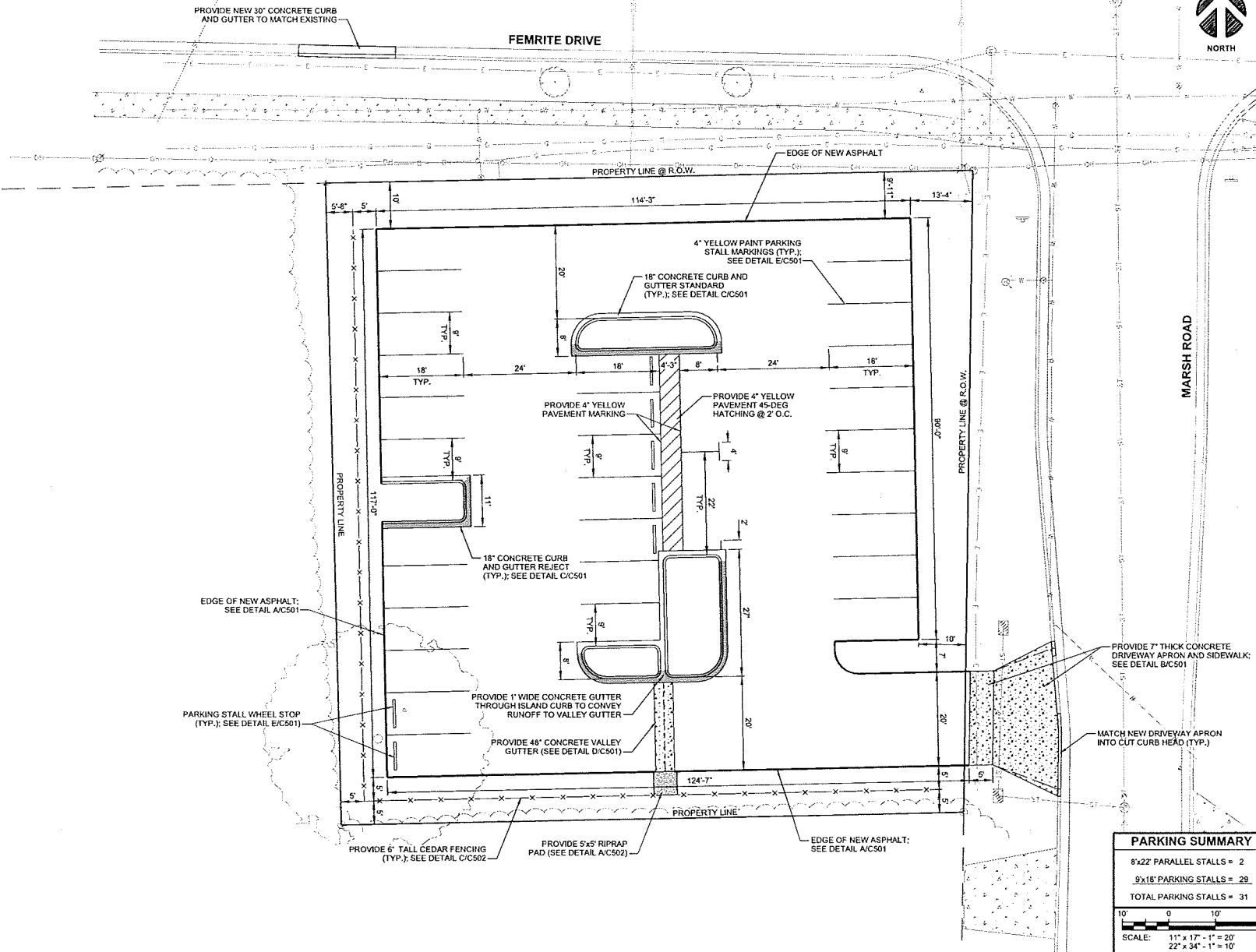
5417 FEMRITE DRIVE PARKING LOT
BADGER BUS
CITY OF MADISON, DANE COUNTY
TITLE SHEET

REVISIONS:	DESCRIPTION:
NO.	DATE

ISSUE DATE:
12/03/2014
SET TYPE:
PR

GRAPHIC SCALE:
2,000' = 1" / 1" = 2,000'
DRAWN BY:
BJB
CHECKED BY:
AJC
PLOT DATE:
12/3/2014
PROJECT NUMBER:
11455
FILE NAME:
G001.dgn

SHEET
IDENTIFICATION:
G001



Edge
Consulting Engineers, Inc.
524 Weber Street
Phone 608.255.1449
www.edgeconsult.com

5417 FEMRITE DRIVE PARKING LOT
BADGER BUS
CITY OF MADISON, DANE COUNTY
SITE PLAN

REVISIONS:	DESCRIPTION:
DATE:	
DATE:	
DATE:	
DATE:	
DATE:	

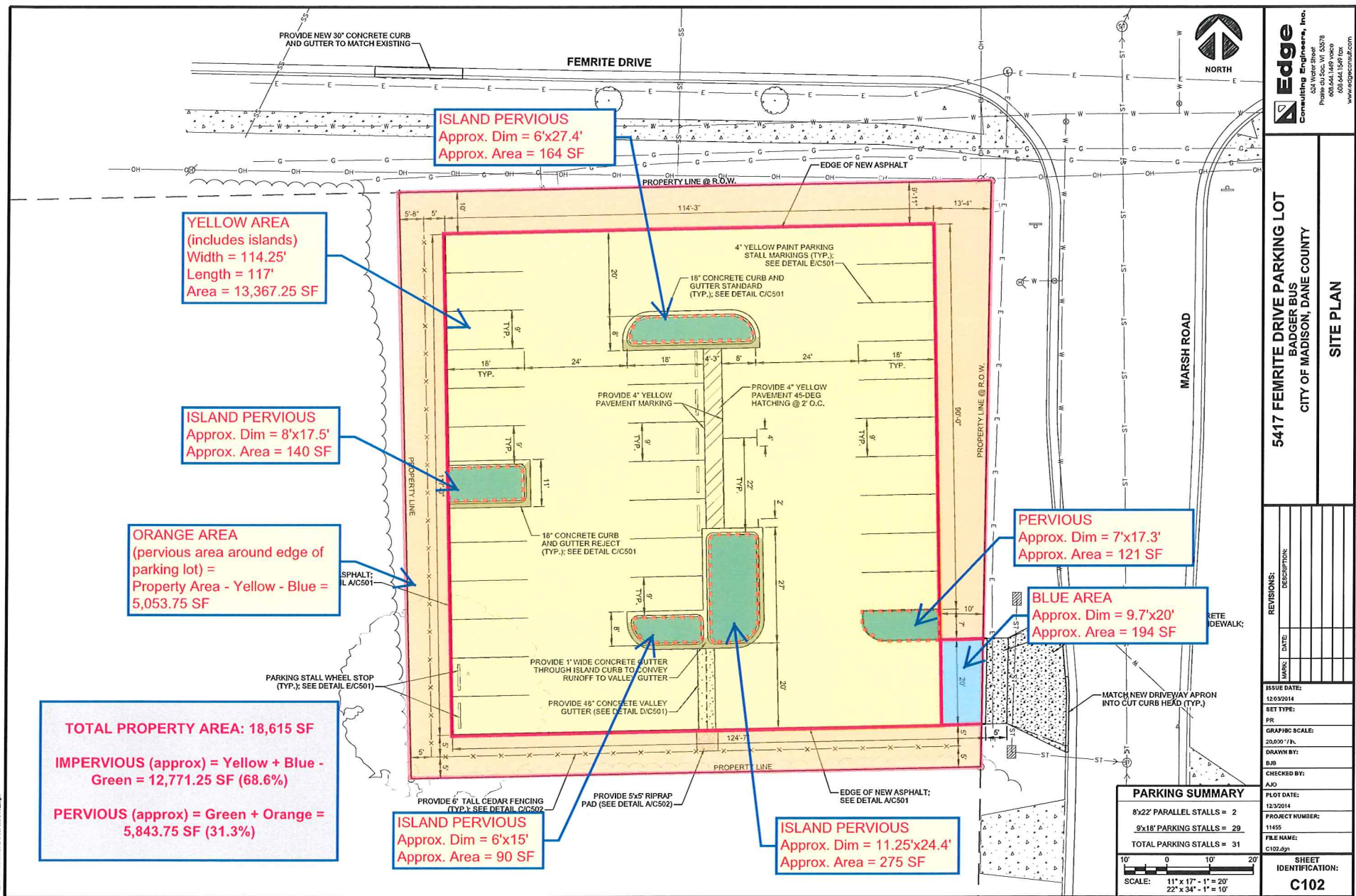
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DRAWN BY:	BJB
CHECKED BY:	AJO
PLOT DATE:	12/3/2014
PROJECT NUMBER:	11455
FILE NAME:	C102.dgn

PARKING SUMMARY

8'x22' PARALLEL STALLS = 2
 9'x18' PARKING STALLS = 29
 TOTAL PARKING STALLS = 31

SCALE: 11" x 17" - 1" = 20'
 22" x 34" - 1" = 10'

SHEET IDENTIFICATION:
C102



MATCH INTO EXISTING
CURB AND ASPHALT

FEMRITE DRIVE



APPROXIMATE
GRADING LIMIT (TYP.)

PROPERTY LINE @ R.O.W.

MARSH ROAD

GRADING PLAN GENERAL NOTES

1. FINISHED SITE TO BE GRADED TO MAINTAIN POSITIVE DRAINAGE IN ALL AREAS.
2. RESTORE ALL TURF AREAS (INCLUDING STAGING AREAS) TO LAWN TYPE GRASS. PREPARE SUBGRADE BY TILLING UP COMPACTED SOILS. INSTALL 6" MIN. TOPSOIL, SEED AND MULCH OR EROSION MAT.
3. GRADING PLAN ELEVATIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE STATED.
4. ALL PAVED AREA SUBGRADE AND BASE COURSE SHALL BE PROOF ROLLED WITH A LOADED QUAD-AXLE DUMP TRUCK, OR OTHER APPROVED VEHICLE, PRIOR TO PAVEMENT OR CURB INSTALLATION.
5. FILL AREAS WITH IMPERVIOUS AREAS SHALL BE BUILT UP IN LAYERS NOT TO EXCEED 12-INCHES AND COMPACTED TO 95% MAXIMUM DRY DENSITY (MODIFIED PROCTOR).

EROSION CONTROL GENERAL NOTES

1. ALL CONTRACTORS SHALL COMPLY WITH APPROVED PERMIT REQUIREMENTS FROM THE CITY OF MADISON.
2. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY GRADING OPERATIONS AND MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT.
3. THE CONTRACTOR SHALL INSPECT THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES ON A WEEKLY BASIS AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT 0.5 INCHES OR GREATER WHICH RESULTS IN RUNOFF.
4. THE EROSION CONTROL ITEMS SHOWN ARE THE MINIMUM REQUIRED. ACTUAL LOCATIONS AND TYPE SHALL BE ADJUSTED IN THE FIELD BY CONTRACTOR WHILE MAINTAINING PERMIT COMPLIANCE.
5. WDOT TYPE 'D' INLET PROTECTION SHALL BE INSTALLED AT ALL ON-SITE INLETS AND IMMEDIATE DOWN STREAM STORM INLETS WITHIN ADJACENT PUBLIC ROADWAYS. DEVICES TO BE INSTALLED IMMEDIATELY AFTER INLET INSTALLATION, MAINTAINED BY THE CONTRACTOR AND KEPT IN PLACE UNTIL FINAL SITE PAVING AND/OR STABILIZATION.
6. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING OPERATIONS AND MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT. SEDIMENT TO BE REMOVED FROM BEHIND SILT FENCE WHEN DEPOSITS REACH HALF HEIGHT OF BARRIERS TYP. FABRIC TO BE INSTALLED 4 INCHES (MIN) BELOW GRADE. SILL FINISH GRADED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINISH GRADING IS COMPLETE ON ANY AREA.
7. WDOT CLASS 1 TYPE B EROSION MAT SHALL BE PLACED ON ALL TURF SLOPES GREATER THAN 10:1 (H:V) AND DITCH BOTTOMS.
8. SEEDING GRASS AREAS SHALL RECEIVE FERTILIZER, SEED, AND EROSION MAT. SEED SHALL BE MIXTURE 40 IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS AND SHALL BE APPLIED AT A RATE OF FOUR POUNDS PER 1,000 SQUARE FEET. FERTILIZER SHALL MEET THE REQUIREMENTS THAT FOLLOW: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 8%; POTASH, NOT LESS THAN 8%. FERTILIZER SHALL BE APPLIED AT THE RATE OF SEVEN POUNDS PER 1,000 SQUARE FEET.
9. SOIL STOCKPILES EXISTING FOR MORE THAN 7 DAYS SHALL BE STABILIZED BY MULCHING, VEGETATIVE COVER, TARPS, OR OTHER APPROVED MEANS.

MINIMIZE GROUND
DISTURBANCE AROUND
BASE OF EXISTING TREE

PROVIDE EROSION BALES W/
2 STAKES PER BALE (TYP.)

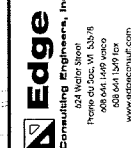
PROVIDE GRASS SWALE 3'
OFFSET FROM EDGE OF
PAVEMENT FLOWING EAST
AT 1.0% MIN SLOPE

PROVIDE STONE TRACKING PAD
AT NEW DRIVEWAY ENTRANCE;
SEE DETAIL B/C502

GRADING LEGEND

- 963'- = EXIST. CONTOURS
- 967'- = PRO. CONTOURS
- = DRAINAGE PATH
- FL: = SWALE FLOWLINE ELEVATION
- [Pattern] = WDOT CLASS 1 TYPE B EROSION MAT
- [Line] = SILT FENCE
- [Symbol] = EROSION BALES
- [Symbol] = WDOT TYPE 'D' INLET PROTECTION

11" x 17" = 1" = 20'
22" x 34" = 1" = 10'



5417 FEMRITE DRIVE PARKING LOT
BADGER BUS
CITY OF MADISON, DANE COUNTY

GRADING PLAN

REVISIONS

DATE

ISSUE DATE:

12/03/2014

SET TYPE:

PR

GRAPHIC SCALE:

20,000' / IN.

DRAWN BY:

B/J

CHECKED BY:

A/J

PLOT DATE:

12/30/14

PROJECT NUMBER:

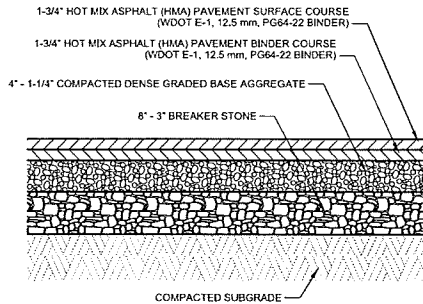
11459

FILE NAME:

C103.dgn

SHEET
IDENTIFICATION:

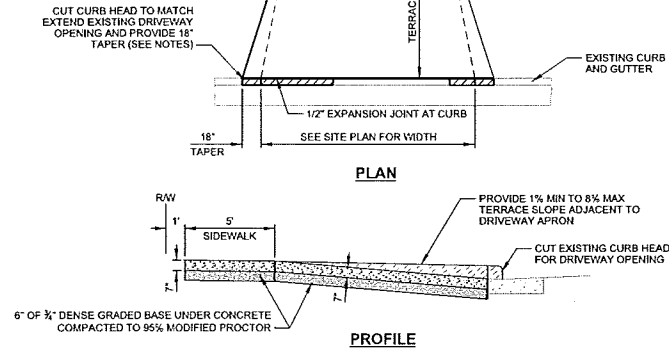
C103



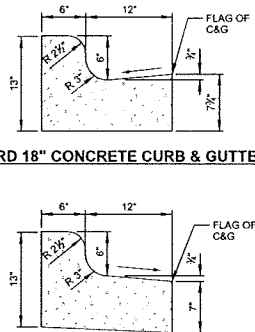
NOTES:
1. APPLY TACK COAT BETWEEN LAYERS

A ASPHALT PAVEMENT SECTION
SCALE: NTS

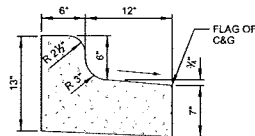
NOTES:
1. CURB HEAD CUTTING SHALL BE PERFORMED USING EQUIPMENT CAPABLE OF CUTTING THROUGH ENTIRE CURB HEAD THICKNESS IN ONE PASS. CUTTING EQUIPMENT SHALL BE MOUNTED ON A VEHICLE OR SECURED TO THE GROUND PRIOR TO OPERATING. CUT CURB SECTION SHALL MATCH ADJACENT DRIVEWAY OPENING.



B CONCRETE DRIVEWAY APRON DETAIL
SCALE: NTS



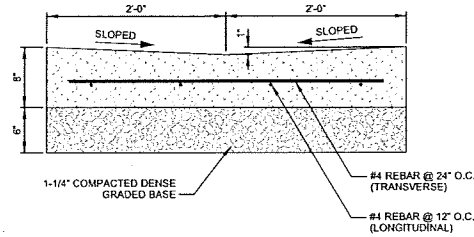
STANDARD 18" CONCRETE CURB & GUTTER



REJECT 18" CONCRETE CURB & GUTTER

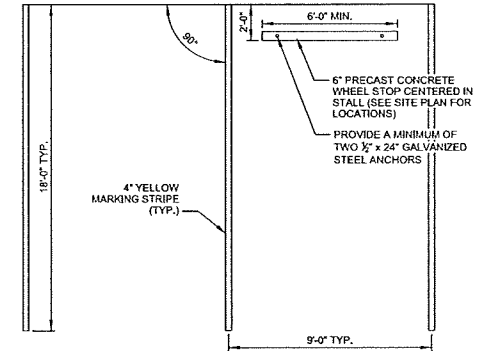
NOTES:
1. LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH.
2. EXPANSION JOINTS SHALL BE PLACED TRANSVERSELY AT RADIUS POINTS ON CURVES OF 200' OF LESS, AND AT ANGLE POINTS, OR AS DIRECTLY BY THE ENGINEER. 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.
3. IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON 6" OF THOROUGHLY COMPACTED CRUSHED STONE.
4. HAND TOOL ALL JOINTS.
5. MEDIUM BROOM FINISH.
6. SEE SITE PLAN FOR LOCATION OF STANDARD VS. REJECT CURB

C CONCRETE CURB & GUTTER DETAILS
SCALE: NTS



NOTES:
1. LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 10' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH.
2. HAND TOOL ALL JOINTS.
3. MEDIUM BROOM FINISH.
4. 3" MINIMUM COVER ON ALL REBAR

D CONCRETE VALLEY GUTTER DETAIL
SCALE: NTS



NOTES:
1. PAINT TO BE TRAFFIC GRADE HIGH VISIBILITY (LATEX) PAINT.
2. MARKINGS SHALL BE THICK ENOUGH TO NOT ALLOW PAVEMENT TO SHOW THROUGH PAINT SURFACE.
3. TWO COATS MIN. REQUIRED.

E TYPICAL PARKING STALL DETAIL
SCALE: NTS

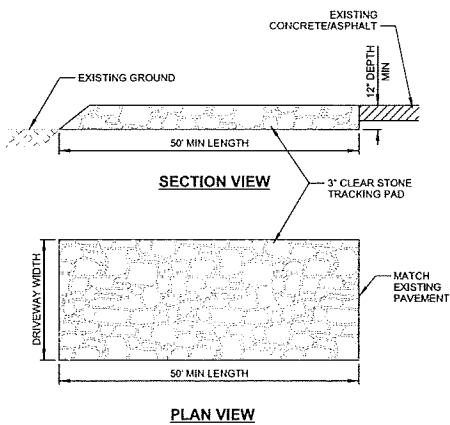
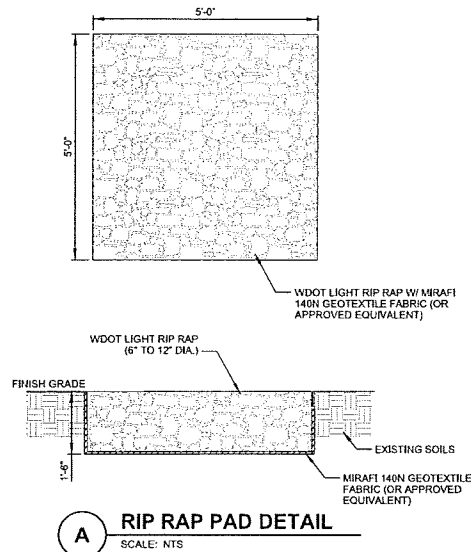
Edge
Consulting Engineers, Inc.
525 Water Street
Providence, RI 02903
Phone: 401.333.1111
Fax: 401.333.1112
www.edgecni.com

5417 FEMRITE DRIVE PARKING LOT
BADGER BUS
CITY OF MADISON, DANE COUNTY
CONSTRUCTION DETAILS

REVISIONS:	DESCRIPTION:
DATE	
BY	
DATE	
BY	
DATE	
BY	

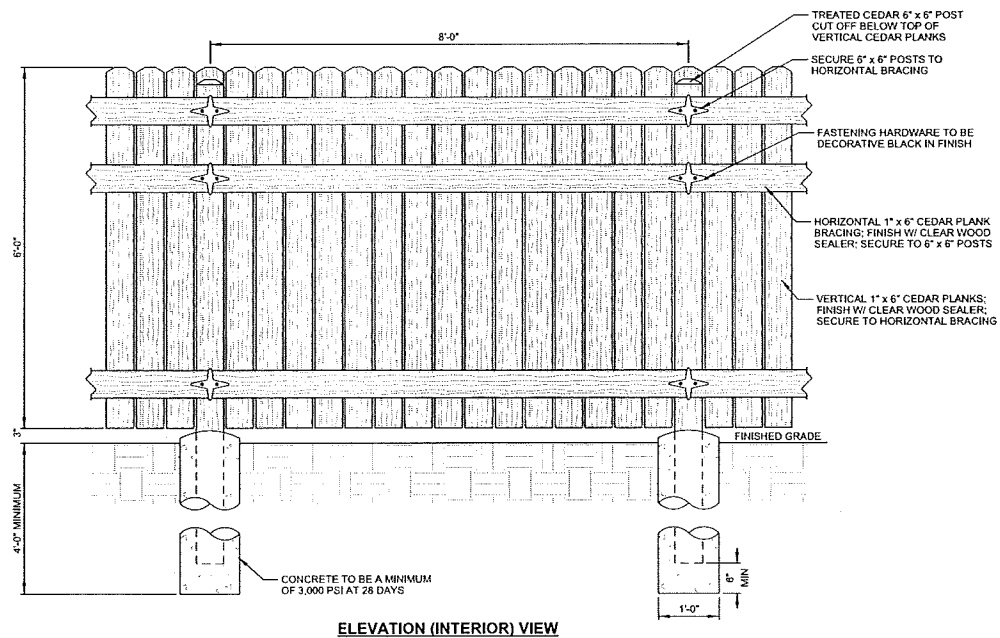
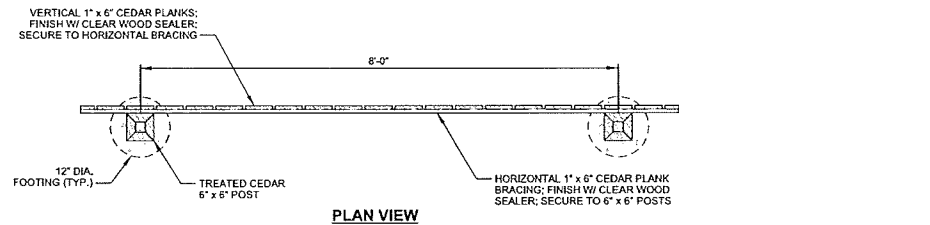
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DRAWN BY:	B.B.
CHECKED BY:	A.O.
PLOT DATE:	12/3/04
PROJECT NUMBER:	11455
FILE NAME:	C501.dgn

SHEET IDENTIFICATION:
C501



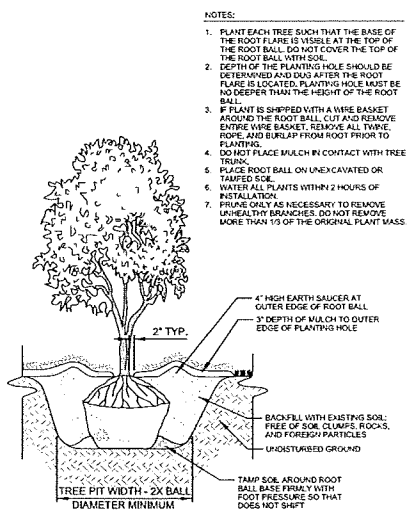
NOTES

1. TRACKING PAD WILL BE UNDERLAIN WITH A GEOTEXTILE FABRIC IN ACCORDANCE WITH WDMR TECHNICAL STANDARD 1057



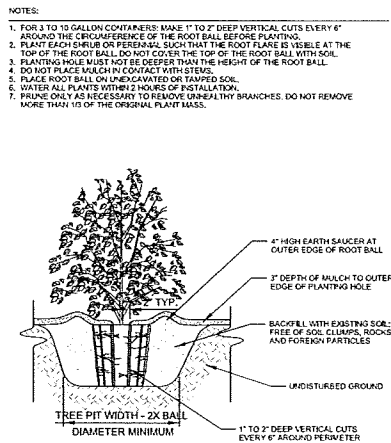
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DATE:	

ISSUE DATE:	12/03/2014
SET TYPE:	PH
GRAPHIC SCALE:	2,000' = 1"
DRAWN BY:	B.B.
CHECKED BY:	AJO
PLOT DATE:	12/3/2014
PROJECT NUMBER:	11455
FILE NAME:	C502.dgn
SHEET IDENTIFICATION:	C502



BALL & BURLAP TREE PLANTING DETAIL

SCALE: NTS



LARGE CONTAINER PLANTING DETAIL

SCALE: NTS

5417 FEMRITE DRIVE PARKING LOT

LANDSCAPING POINT SUMMARY

13,550 = Total Developed Area (SF)
136 = Overall Landscape Points Required (1/100 SF)
IL = Zoning District

275.66 = Street Frontage (LF)

12,417 = Paved Parking Area (SF)
994 = 8% Interior Island Area Required (SF)
1,024 = Interior Island Area Provided (SF)

Street Frontage

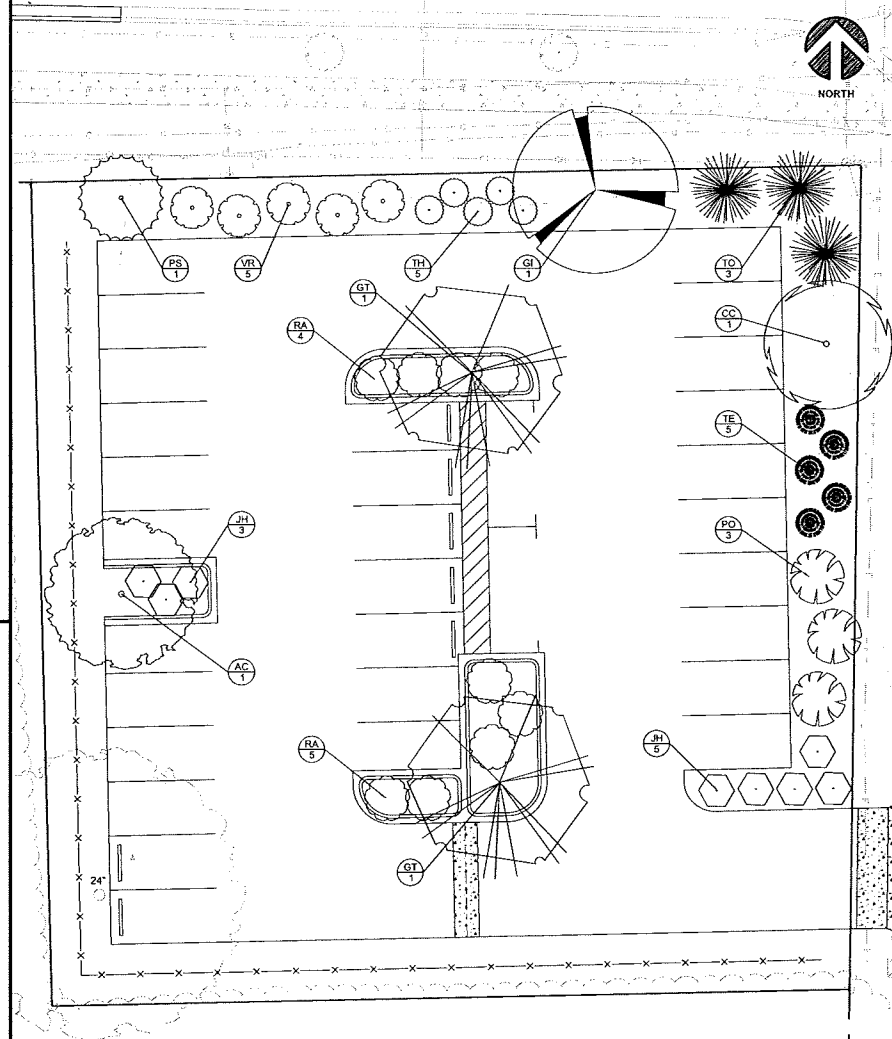
Symbol	Quantity	Scientific Name	Common Name	Height	Spread	Size	Points Each	Total Points
CC	1	<i>Carpinus caroliniana</i> 'J.N. Strain'	J.N. Strain of Muscledwood	25-30'	25-30'	1.5" BB	15	15
GI	1	<i>Gleditsia triacanthos</i> 'Impole'	Imperial Honeylocust	30-35'	30-35'	2.5" BB	35	35
JS	5	<i>Juniperus horizontalis</i> 'Wisconsin'	Wisconsin Juniper	8'	5'	3 gal.	3	15
PS	1	<i>Pinus cembra</i>	Swiss Stone Pine	25-40'	10-20'	5'	35	35
PO	3	<i>Physocarpus opulifolius</i>	Common Ninebark	8-10'	8-10'	3 gal.	3	9
TE	5	<i>Thuja occidentalis</i> 'Emerald Green'	Emerald Green Arborvitae	15'	4'	4'	10	50
TH	5	<i>Thuja occidentalis</i> 'Holmstrup'	Holmstrup Arborvitae	10'	5'	4'	10	50
TO	3	<i>Thuja occidentalis</i> 'Trautman'	Trautman Arborvitae	25-30'	10-15'	5'	35	105
VR	5	<i>Viburnum rafinesquianum</i>	Downy Arrowhead Viburnum	6-8'	5-7'	3 gal.	3	15

Points Provided: 329

Interior Islands

Symbol	Quantity	Scientific Name	Common Name	Height	Spread	Size	Points Each	Total Points
AC	1	<i>Acer campestre</i>	Hedge Maple	25-35'	25'	2.5" BB	35	35
GI	2	<i>Gleditsia triacanthos</i> 'Skycole'	Skyline Honeylocust	50-60'	35-45'	2.5" BB	35	70
JS	3	<i>Juniperus horizontalis</i> 'Wisconsin'	Wisconsin Juniper	8'	5'	3 gal.	3	9
RA	9	<i>Rhus aromatica</i> 'Gro-low'	Gro-low Sumac	2-3'	6-8'	1 gal.	2	18

Points Provided 132



NOTES:

1. EXISTING MATURE DECIDUOUS TREES TO REMAIN AND BE PROTECTED AS SHOWN ON THE DRAWINGS.
2. CONTRACTOR TO REMOVE DEAD AND DAMAGED LIMBS, AND PRUNE LOWER LIMBS TO A HEIGHT OF 10' ABOVE THE ADJACENT EDGE OF PAVEMENT TO PROVIDE VERTICAL CLEARANCE FOR PARKING STALLS.
3. TREES SHALL BE PRUNED ACCORDING TO STANDARD HORTICULTURAL PRACTICES.
4. TREE CALIPER GIVEN IN INCHES NEAR CENTER OF TREE SYMBOL.

SCALE: 11' x 17' - 1" = 20'
22' x 34' - 1" = 10'



5417 FEMRITE DRIVE PARKING LOT
BADGER BUS
CITY OF MADISON, DANE COUNTY
LANDSCAPE PLAN

REVISIONS:	DESCRIPTION:
DATE:	
DATE:	
DATE:	
DATE:	
DATE:	

ISSUE DATE:
12/03/2014
SET TYPE:
PS
GRAPHIC SCALE:
30,000' = 1"
DRAWN BY:
BJB
CHECKED BY:
AJG
PLOT DATE:
12/3/2014
PROJECT NUMBER:
11455
FILE NAME:
L100.dgn

SHEET IDENTIFICATION:
L100