

640 WEST APARTMENTS

640 West Wilson St.
Madison, WI 53703



URBAN DESIGN COMMISSION AND PLAN COMMISSION SUBMITTAL NOT FOR CONSTRUCTION

640 WEST APARTMENTS
640 West Wilson St.
Madison, WI 53703

LT McGrath, LLC
Lana McGrath
3849 Conroy Rd.
Vernon, WI 53593
Project No. 112157.00

Issued For:
No. Description Date
01 City of Madison Submittal 02-08-2012

URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
SUBMITTED FEBRUARY 8, 2012 FOR:
FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
APRIL 9, 2012 PLAN COMMISSION MEETING
NOT FOR CONSTRUCTION

Drawn by: mds
Checked by: MDS
File: 2157CitySubmittal-SheetLayouts.dwg

Title Sheet

T1

PROJECT

CONSULTANTS

DRAWINGS

SITE LOCATION MAP

Civil/Landscape

SAA Design Group, Inc.
717 John Nolen Drive
Madison, Wisconsin 53713

Ph 608-255-0800
Fx 608-255-7750

- Site Survey (by others)
- C101 - Demolition and Erosion Control Plan
- C201 - Grading and Utility Plan
- C301 - Site Plan
- C302 - Fire Access Plan
- C401 - Landscape Plan
- C501 - Site Details
- C502 - Site Details
- C601 - Site Photometrics
- Lighting Cutsheets (attached to set)

Architectural

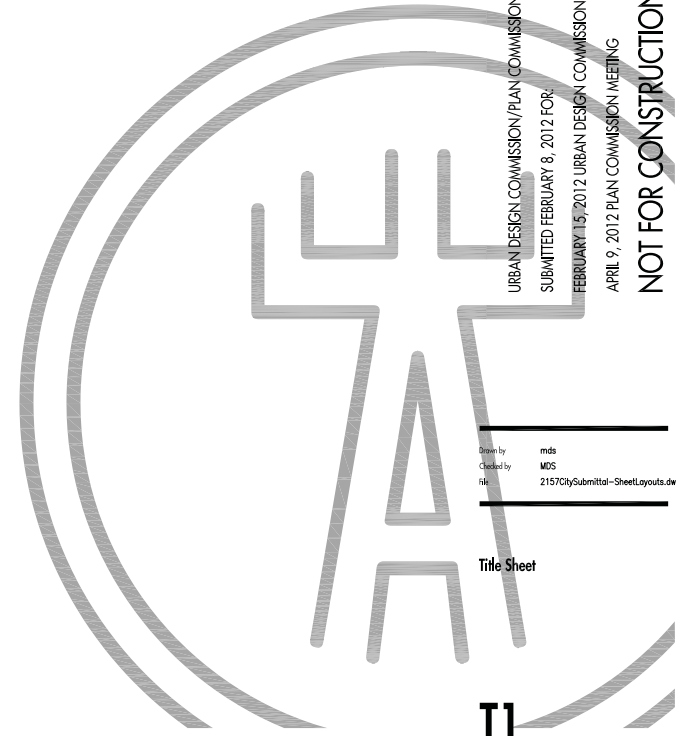
Engberg Anderson
1 North Pickney Street
Madison, Wisconsin 53703

Ph 608-250-0100
Fx 608-250-0200

- T1 - Title Sheet
- A001 - Building Information and Existing Conditions
- A101 - Basement, Grade, and Second Level Plans
- A102 - Third - Fifth Level Plans
- A401 - Building Elevations
- A402 - Signage Diagrams and Photo Montages

Structural

Pierce Engineers, Inc.
10 West Mifflin Street
Suite 205
Madison, Wisconsin 53703
Ph 608-256-7304
Fx 608-256-7306



Architectural Survey

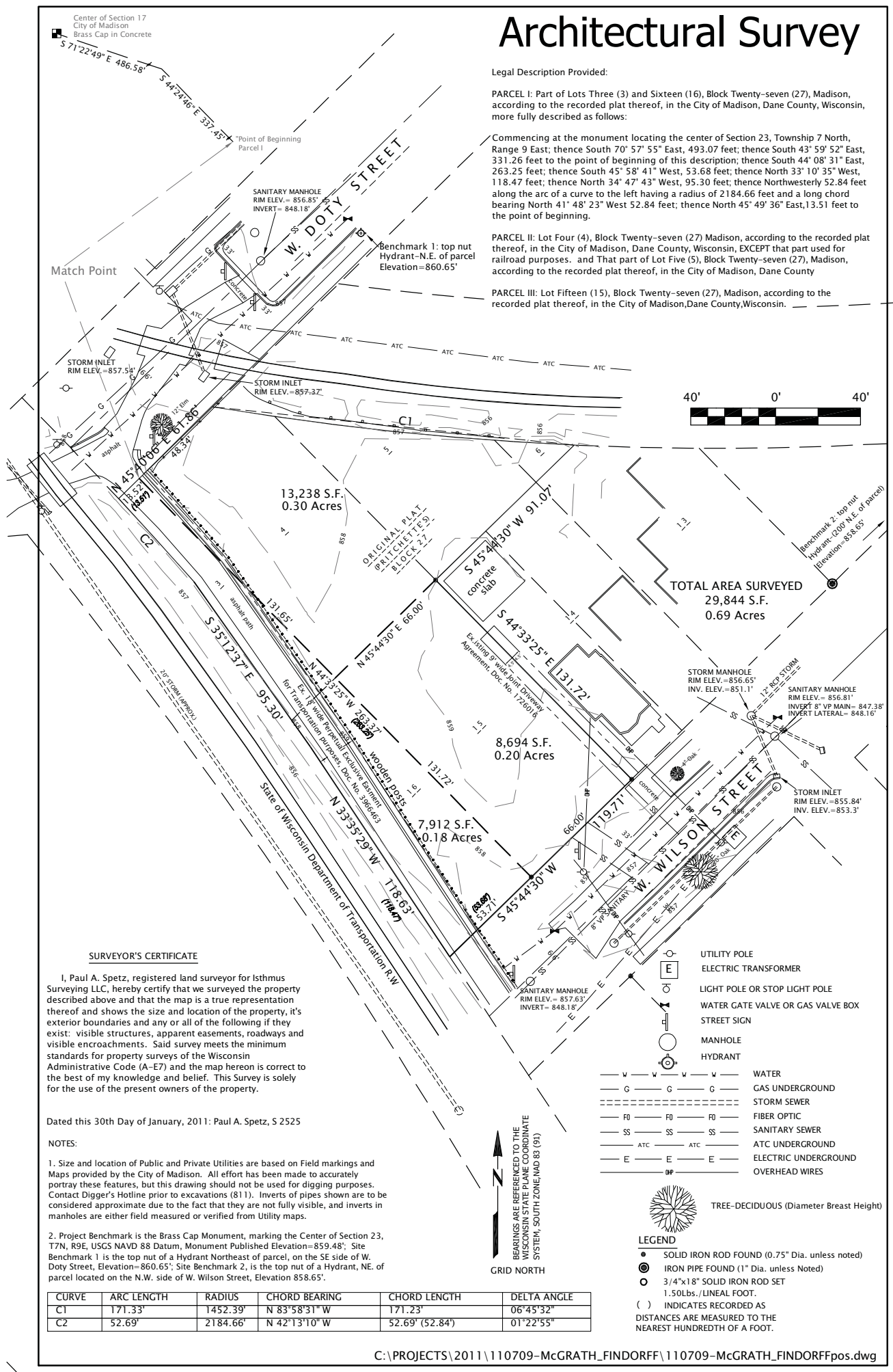
Legal Description Provided:

PARCEL I: Part of Lots Three (3) and Sixteen (16), Block Twenty-seven (27), Madison, according to the recorded plat thereof, in the City of Madison, Dane County, Wisconsin, more fully described as follows:

Commencing at the monument locating the center of Section 23, Township 7 North, Range 9 East; thence South 70° 57' 55" East, 493.07 feet; thence South 43° 59' 52" East, 331.26 feet to the point of beginning of this description; thence South 44° 08' 31" East, 263.25 feet; thence South 45° 58' 41" West, 53.68 feet; thence North 33° 10' 35" West, 118.47 feet; thence North 34° 47' 43" West, 95.30 feet; thence Northwesterly 52.84 feet along the arc of a curve to the left having a radius of 2184.66 feet and a long chord bearing North 41° 48' 23" West 52.84 feet; thence North 45° 49' 36" East, 13.51 feet to the point of beginning.

PARCEL II: Lot Four (4), Block Twenty-seven (27) Madison, according to the recorded plat thereof, in the City of Madison, Dane County, Wisconsin, EXCEPT that part used for railroad purposes. and That part of Lot Five (5), Block Twenty-seven (27), Madison, according to the recorded plat thereof, in the City of Madison, Dane County

PARCEL III: Lot Fifteen (15), Block Twenty-seven (27), Madison, according to the recorded plat thereof, in the City of Madison, Dane County, Wisconsin.



TOTAL AREA SURVEYED
29,844 S.F.
0.69 Acres

SURVEYOR'S CERTIFICATE

I, Paul A. Spetz, registered land surveyor for Isthmus Surveying LLC, hereby certify that we surveyed the property described above and that the map is a true representation thereof and shows the size and location of the property, it's exterior boundaries and any or all of the following if they exist: visible structures, apparent easements, roadways and visible encroachments. Said survey meets the minimum standards for property surveys of the Wisconsin Administrative Code (A-E7) and the map hereon is correct to the best of my knowledge and belief. This Survey is solely for the use of the present owners of the property.

Dated this 30th Day of January, 2011: Paul A. Spetz, S 2525

NOTES:

- Size and location of Public and Private Utilities are based on Field markings and Maps provided by the City of Madison. All effort has been made to accurately portray these features, but this drawing should not be used for digging purposes. Contact Digger's Hotline prior to excavations (811). Inverts of pipes shown are to be considered approximate due to the fact that they are not fully visible, and inverts in manholes are either field measured or verified from Utility maps.
- Project Benchmark is the Brass Cap Monument, marking the Center of Section 23, T7N, R9E, USGS NAVD 88 Datum, Monument Published Elevation=859.48'; Site Benchmark 1 is the top nut of a Hydrant Northeast of parcel, on the SE side of W. Doty Street, Elevation=860.65'; Site Benchmark 2, is the top nut of a Hydrant, NE. of parcel located on the N.W. side of W. Wilson Street, Elevation 858.65'.

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1	171.33'	1452.39'	N 83°58'31" W	171.23'	06°45'32"
C2	52.69'	2184.66'	N 42°13'10" W	52.69' (52.84)	01°22'55"

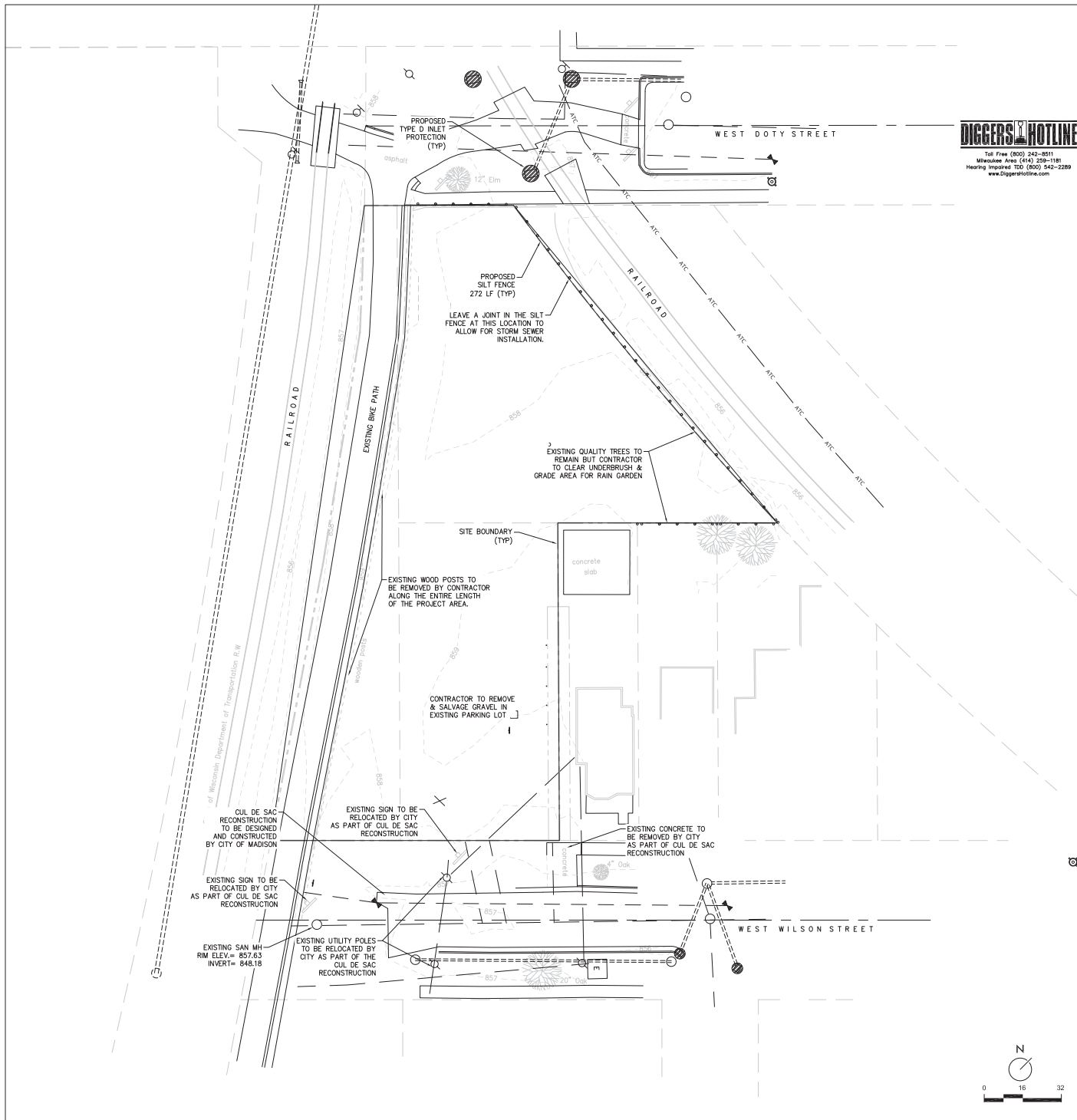
- UTILITY POLE
- ELECTRIC TRANSFORMER
- LIGHT POLE OR STOP LIGHT POLE
- WATER GATE VALVE OR GAS VALVE BOX
- STREET SIGN
- MANHOLE
- HYDRANT
- WATER
- GAS UNDERGROUND
- STORM SEWER
- FIBER OPTIC
- SANITARY SEWER
- ATC UNDERGROUND
- ELECTRIC UNDERGROUND
- OVERHEAD WIRES



TREE-DECIDUOUS (Diameter Breast Height)

- ### LEGEND
- SOLID IRON ROD FOUND (0.75" Dia. unless noted)
 - IRON PIPE FOUND (1" Dia. unless Noted)
 - 3/4" x 18" SOLID IRON ROD SET
 - 1.50Lbs./LINEAL FOOT.
 - () INDICATES RECORDED AS DISTANCES ARE MEASURED TO THE NEAREST HUNDREDTH OF A FOOT.

BEARINGS ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (91)
GRID NORTH



DIGGERS HOTLINE
 Toll Free (800) 242-8511
 Milwaukee Area (414) 299-1181
 Hearing Impaired TDD (800) 542-2289
 www.DiggerHotline.com

- EROSION NOTES:**
- A. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBED AREA.
 - B. THERE ARE A LIMITED NUMBER OF DOWNSTREAM INLETS IN OR ADJACENT TO THE SITE. CONTRACTOR IS TO USE TYPE D INLET PROTECTION ON EXISTING AND PROPOSED INLETS ONCE THEY ARE CONSTRUCTED.
 - C. SUGGESTED LOCATIONS FOR INSTALLATION OF EROSION CONTROL ITEMS ARE SHOWN IN THE PLANS. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. EROSION CONTROL ITEMS SHALL BE IN PLACE PRIOR TO DEMOLITION/CONSTRUCTION. EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL SUCH TIME THAT THE ENGINEER DEEMS THE DEVICES NO LONGER NECESSARY.
 - D. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES. ALL DISTURBED AREAS OF LAWN SHALL BE PATCHED WITH SEED FERTILIZER AND MULCH/MAT.
 - E. ALL DISTURBED AREAS SHALL BE STABILIZED WITH SOIL STABILIZER TYPE B IF THERE IS A DELAY OF MORE THAN 7 CALENDAR DAYS BETWEEN INITIAL GRADING AND FINAL TOPSOIL AND SEEDING. SOIL STABILIZER APPLICATION SHALL BE AT THE CONTRACTOR'S EXPENSE.
 - F. ALL DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR RE-DISTURBANCE. THE CONTRACTOR SHALL USE EROSION MATTING ON ALL SLOPES STEEPER THAN 5:1 (20%).
 - G. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
 - H. A TRACKING MAT WILL NOT BE REQUIRED DUE TO THE LIMITED NATURE OF DISTURBANCE FOR THIS BUILDING. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
 - I. CONTRACTOR TO STOCKPILE ENOUGH DIRT FROM THE BUILDING EXCAVATION TO PROVIDE FOR BACKFILLING. ALL TOPSOIL WILL NEED TO BE IMPORTED AND MUST BE REASONABLY FREE OF DEBRIS OR STONES. TOPSOIL DEPTH SHALL BE 4" MINIMUM.

- ANTICIPATED CONSTRUCTION SCHEDULE:**
1. INSTALL INLET PROTECTION AS DETAILED ON THE DEMOLITION PLAN. CONTRACTOR SHALL INSTALL SILT FENCE AS NEEDED IF DEEMED NECESSARY.
 2. REMOVE EXISTING ITEMS AS DETAILED IN THE DEMOLITION PLAN.
 3. CONSTRUCT BUILDING AND UTILITIES AS PRESCRIBED IN THE PLAN.
 4. GRADE AREA IMMEDIATELY ADJACENT TO THE NEW BUILDING FOR PAVEMENT AND SIDEWALK CONSTRUCTION.
 5. CONSTRUCT PAVEMENT, CURB & SIDEWALK.
 6. RESTORE DISTURBED AREAS WITH TEMPORARY SEEDING ON SOUTHWEST SIDE OF PARCEL. FINAL RESTORATION MAY BE COMPLETED ALONG NORTHWEST, SOUTH AND SOUTHWEST PROPERTY LINES.
 7. TOPSOIL, SEED AND MULCH/EROSION MAT ALL DISTURBED AREAS.
 8. INSTALL RAIN GARDEN AND LANDSCAPING PLANTS.
 9. REMOVE EROSION CONTROL ITEMS ONCE THE SITE HAS BEEN STABILIZED.
- *SEEDING AND STABILIZATION INFORMATION & DEADLINES ARE AS FOLLOWS:
 -CONTRACTOR TO USE HWY MIX #20 AT A RATE OF 2.5 LBS/1000 SF
 -CONTRACTOR TO APPLY FERTILIZER AT A RATE OF 2 LBS/1000 SF
 AFTER SEPTEMBER 15TH, A COOL WEATHER SEEDING COVER CROP MUST BE APPLIED (I.E. OATS @ 2 LBS/1000 SF)
 AFTER OCTOBER 15TH, A DORMANT SEEDING COVER CROP MUST BE APPLIED (I.E. WINTER WHEAT @ 2 LBS/1000 SF)
 AFTER NOVEMBER 15TH, A DORMANT SEEDING MUST BE APPLIED WITH AN ACCEPTABLE SOIL STABILIZER. (POLYACRYLAMIDE)

640 WEST APARTMENTS
 640 West Wilson St.
 Madison, WI 53703

LT McGroff, LLC
 Lance McGroff
 3849 Corbin Rd.
 Verona, WI 53593
 Project No. 11212700

Issued For	Date
No. Description	
01 City of Madison Licensed	05/28/2012

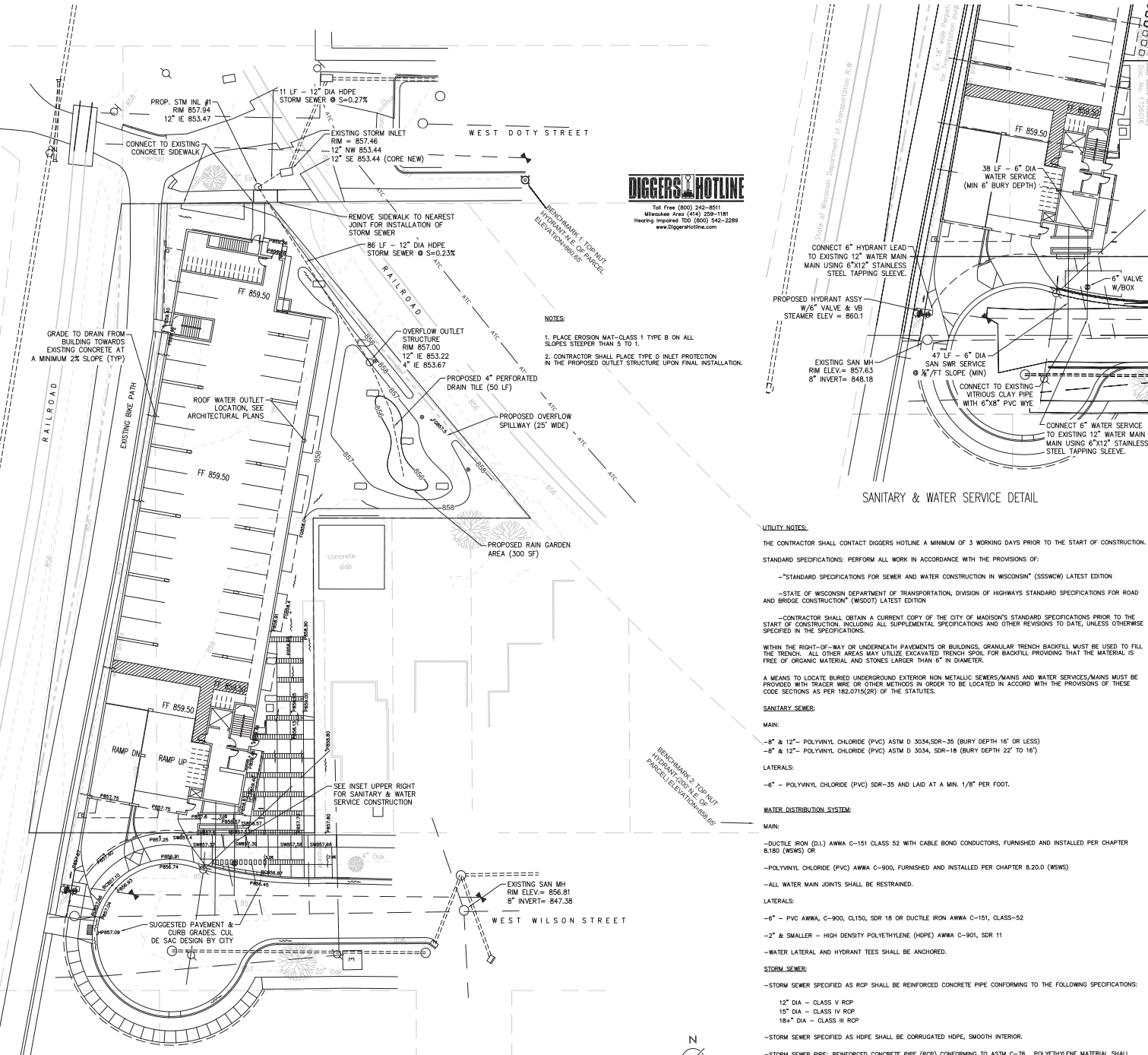
URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
 SUBMITTED FEBRUARY 8, 2012 FOR:
 FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
 APRIL 9, 2012 PLAN COMMISSION MEETING

Drawn by P.JH
 Checked by JAL
 File P-DEMO.dwg

Demolition and Erosion Control Plan

- ANTICIPATED CONSTRUCTION SCHEDULE:**
1. INSTALL INLET PROTECTION AS DETAILED ON THE DEMOLITION PLAN. CONTRACTOR SHALL INSTALL SILT FENCE AS NEEDED IF DETERMINED NECESSARY.
 2. REMOVE EXISTING ITEMS AS DETAILED IN THE DEMOLITION PLAN.
 3. CONSTRUCT BUILDING AND UTILITIES AS PRESCRIBED IN THE PLAN.
 4. GRADE AREA IMMEDIATELY ADJACENT TO THE NEW BUILDING FOR PAVEMENT AND SIDEWALK CONSTRUCTION.
 5. CONSTRUCT PAVEMENT, CURB & SIDEWALK.
 6. RESTORE DISTURBED AREAS WITH TEMPORARY SEEDING ON SOUTHWEST SIDE OF PARCEL. FINAL RESTORATION MAY BE COMPLETED ALONG NORTHWEST, SOUTH AND SOUTHWEST PROPERTY LINES.
 7. TOPSOIL, SEED AND MULCH/EROSION MAT ALL DISTURBED AREAS.
 8. INSTALL RAIN GARDEN AND LANDSCAPING PLANTS.
 9. REMOVE EROSION CONTROL ITEMS ONCE THE SITE HAS BEEN STABILIZED.
- *SEEDING AND STABILIZATION INFORMATION & DEADLINES ARE AS FOLLOWS:
 -CONTRACTOR TO USE HWY MIX #20 AT A RATE OF 2.5 LBS/1000 SF
 -CONTRACTOR TO APPLY FERTILIZER AT A RATE OF 2 LBS/1000 SF
 AFTER SEPTEMBER 15TH, A COOL WEATHER SEEDING COVER CROP MUST BE APPLIED (I.E. OATS @ 2 LBS/1000 SF)
 AFTER OCTOBER 15TH, A DORMANT SEEDING COVER CROP MUST BE APPLIED (I.E. WINTER WHEAT @ 2 LBS/1000 SF)
 AFTER NOVEMBER 15TH, A DORMANT SEEDING MUST BE APPLIED WITH AN ACCEPTABLE SOIL STABILIZER. (POLYACRYLAMIDE)

- SPOT ELEVATION ABBREVIATIONS:**
- P = PAVEMENT
 - C = CONCRETE
 - EP = EXISTING PAVEMENT
 - EC = EXISTING CONCRETE
 - EW = EXISTING SIDEWALK
 - FS = FINISHED GRADE
 - FT = FINISHED GRADE
 - TS = TOP OF STAIRS
 - BS = BOTTOM OF STAIRS
 - TC = TOP OF CURB
 - TW = TOP OF WALL
 - BW = BOTTOM OF WALL
 - IE = INVERT ELEVATION



DIGGERS HOTLINE
 Toll Free (800) 242-8011
 Milwaukee Area (414) 220-1181
 Hearing Impaired TDD (800) 542-2299
 www.diggershotline.com

- NOTES:**
1. PLACE EROSION MAT-CLASS 1 TYPE B ON ALL SLOPES STEEPER THAN 5 TO 1.
 2. CONTRACTOR SHALL PLACE TYPE D INLET PROTECTION IN THE PROPOSED OUTLET STRUCTURE UPON FINAL INSTALLATION.

- UTILITY NOTES:**
- THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE A MINIMUM OF 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
 - STANDARD SPECIFICATIONS: PERFORM ALL WORK IN ACCORDANCE WITH THE PROVISIONS OF:
 - "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN" (SSSWC) LATEST EDITION
 - STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (WISDOT) LATEST EDITION
 - CONTRACTOR SHALL OBTAIN A CURRENT COPY OF THE CITY OF MADISON'S STANDARD SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND OTHER REVISIONS TO DATE, UNLESS OTHERWISE SPECIFIED IN THE SPECIFICATIONS.

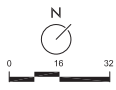
A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORD WITH THE PROVISIONS OF THESE CODE SECTIONS AS PER 182.071(2)(b) OF THE STATUTES.

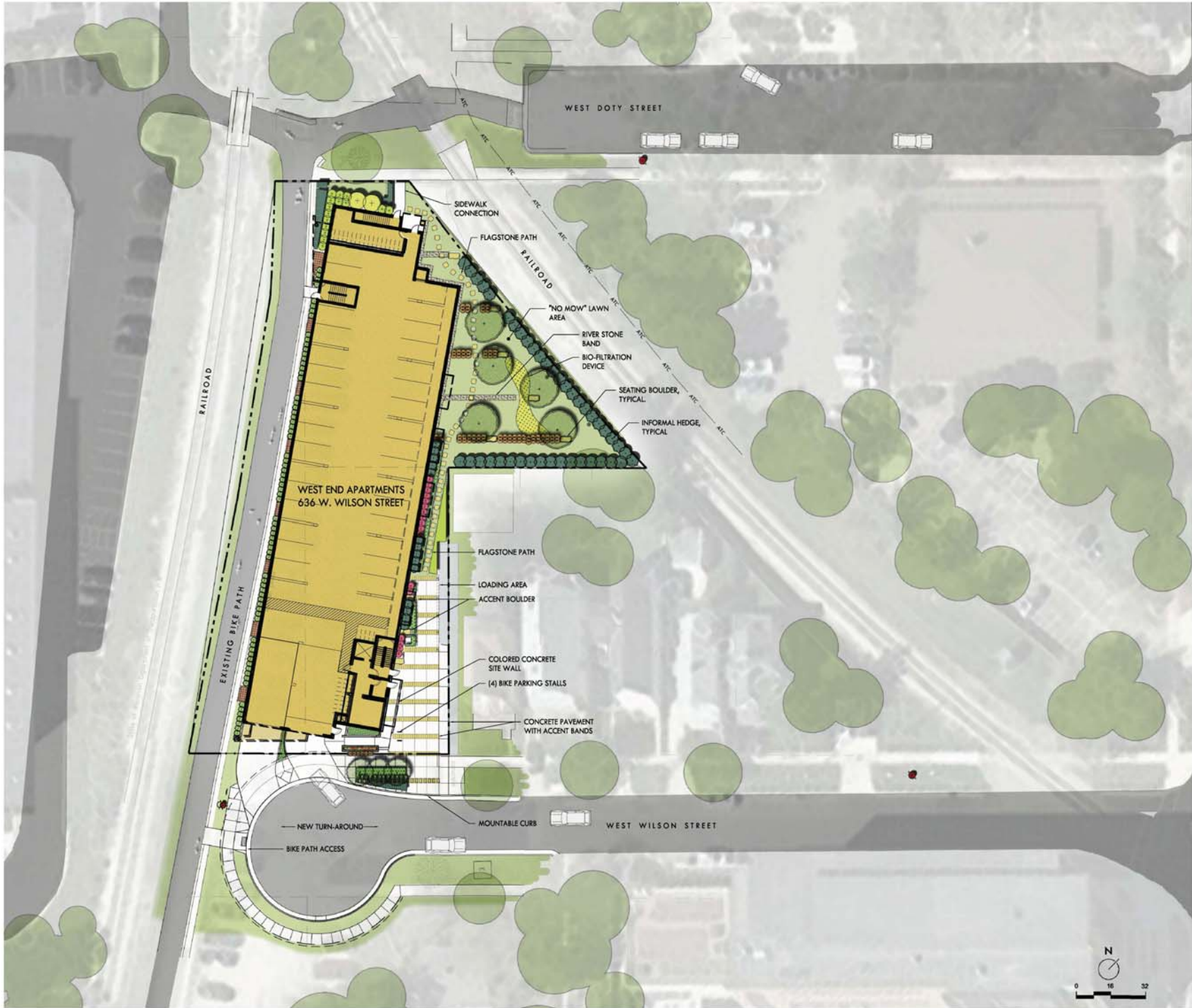
- SANITARY SEWER:**
- MAIN:
- 8" & 12" - POLYVINYL CHLORIDE (PVC) ASTM D 3034-SDR-35 (BURY DEPTH 16" OR LESS)
 - 8" & 12" - POLYVINYL CHLORIDE (PVC) ASTM D 3034, SDR-18 (BURY DEPTH 22" TO 16")
- LATERALS:
- 6" - POLYVINYL CHLORIDE (PVC) SDR-35 AND LAID AT A MIN. 1/8" PER FOOT.

- WATER DISTRIBUTION SYSTEM:**
- MAIN:
- DUCTILE IRON (D.I.) AWWA C-151 CLASS 52 WITH CABLE BOND CONDUCTORS, FURNISHED AND INSTALLED PER CHAPTER 8.180 (WSWS) OR
 - POLYVINYL CHLORIDE (PVC) AWWA C-900, FURNISHED AND INSTALLED PER CHAPTER 8.20.0 (WSWS)
- ALL WATER MAIN JOINTS SHALL BE RESTRAINED.

- LATERALS:
- 6" - PVC AWWA, C-900, CL150, SDR 18 OR DUCTILE IRON AWWA C-151, CLASS-52
 - 2" & SMALLER - HIGH DENSITY POLYETHYLENE (HDPE) AWWA C-901, SDR 11
- WATER LATERAL AND HYDRANT TEES SHALL BE ANCHORED.

- STORM SEWER:**
- STORM SEWER SPECIFIED AS RCP SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO THE FOLLOWING SPECIFICATIONS:
 - 12" DIA - CLASS V RCP
 - 15" DIA - CLASS IV RCP
 - 18" DIA - CLASS III RCP
 - STORM SEWER SPECIFIED AS HDPE SHALL BE CORRUGATED HDPE, SMOOTH INTERIOR.
 - STORM SEWER PIPE: REINFORCED CONCRETE PIPE (RCP) CONFORMING TO ASTM C-76, POLYETHYLENE MATERIAL SHALL CONFORM TO ASTM D3350. AN APPROVED RUBBER GASKET JOINT SHALL BE USED FOR EITHER OPTION. JOINTS FOR RCP SHALL CONFORM TO ASTM D-471. JOINTS FOR HDPE SHALL CONFORM TO ASTM F-877.
 - ALL PERFORATED DRAIN TILE SHALL BE PLASTIC WITHOUT A FILTER SOCK.
 - AT EACH POINT WHERE A STORM SEWER "DAYLIGHTS", A MARKER POST EQUIVALENT TO THOSE SPECIFIED BY WSDOT, SHALL BE INSTALLED AT THE END TO MARK THE LOCATION.





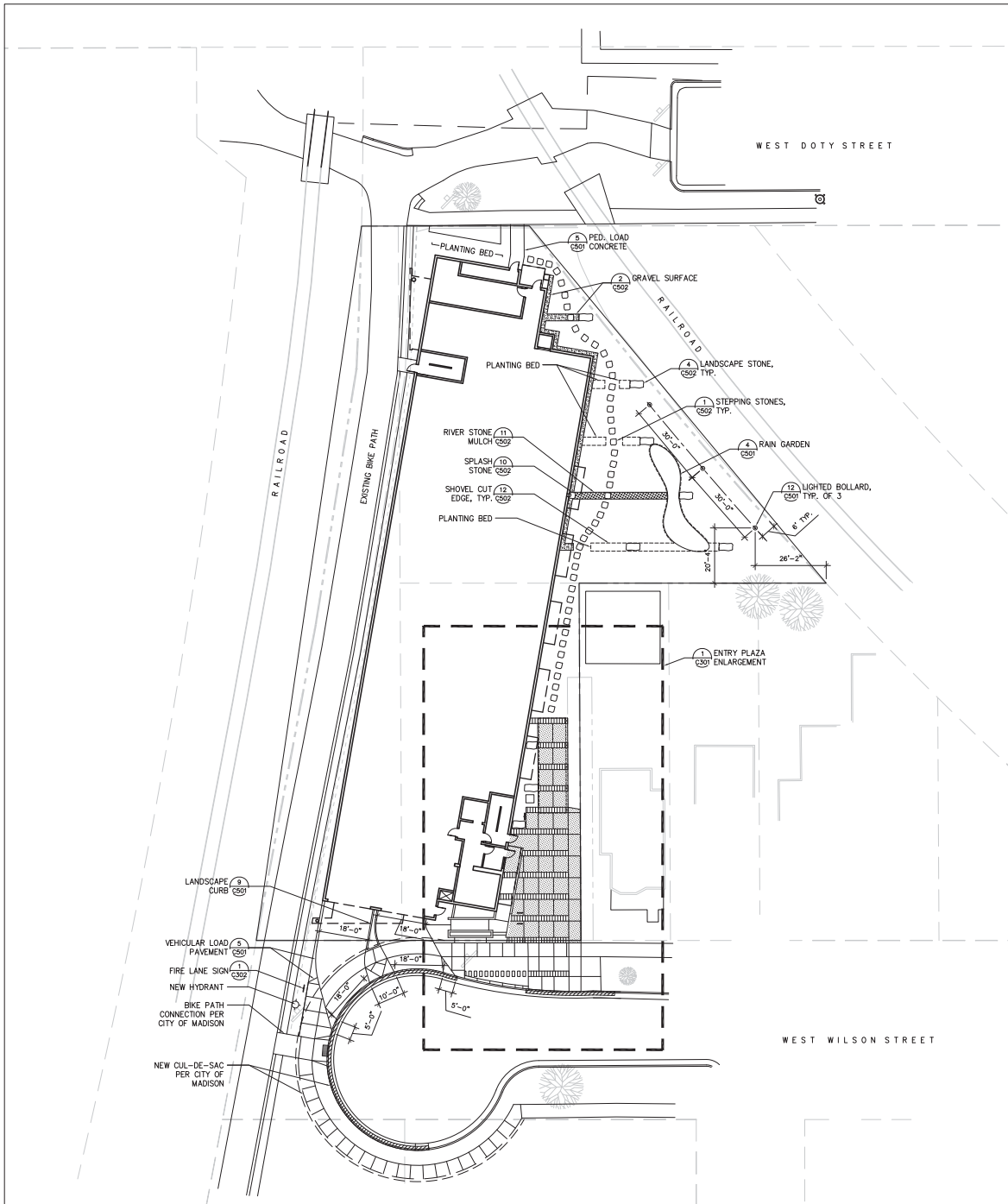
Issued For:	No.	Description:	Date
	01	City of Madision	02/08/2012

URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
SUBMITTED FEBRUARY 8, 2012 FOR:
FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
APRIL 9, 2012 PLAN COMMISSION MEETING

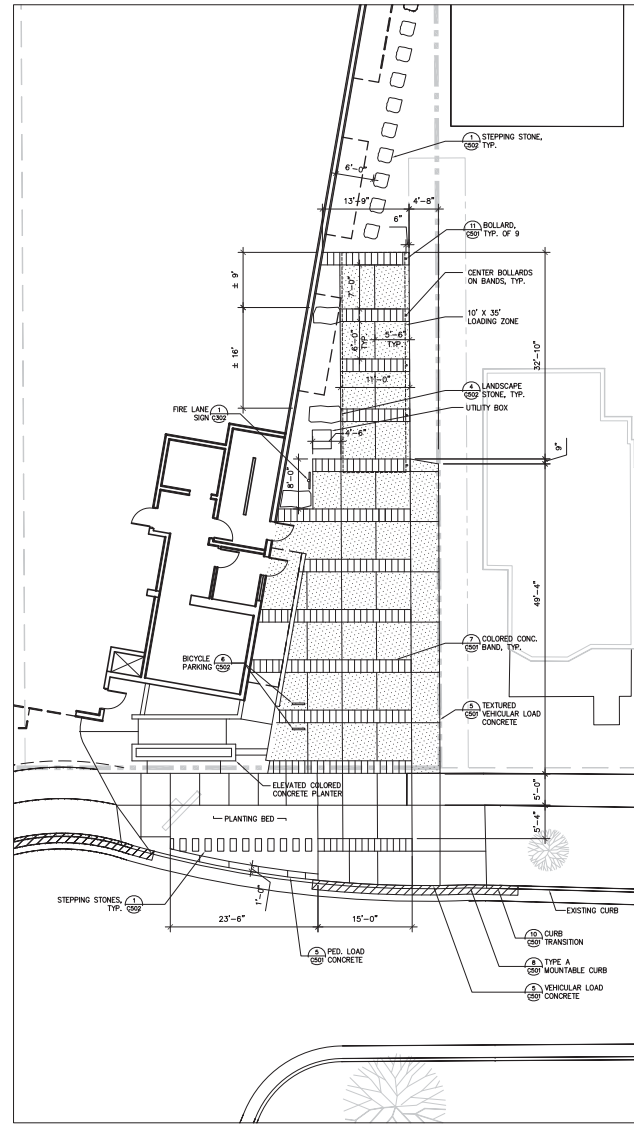
Drawn by: PJH
Checked by: JAL
File: P-SP_color.dwg

Site Plan

C300



1 SITE PLAN
C301
SCALE 1/16" = 1'-0"



2 ENTRY PLAZA ENLARGEMENT
C301
SCALE 1/8" = 1'-0"

SITE STATISTICS

SITE AREA	29,844 SF
EXISTING IMPERVIOUS SURFACES	28,352 SF
EXISTING ISR	0.95
PROPOSED IMPERVIOUS SURFACES	22,210 SF
PROPOSED ISR	0.74
USABLE OPEN SPACE (INCLUDES 4,023 SF OF BALCONY)	10,988 SF

640 WEST APARTMENTS
640 West Wilson St.
Madison, WI 53703

LT McGroff, LLC
Lance McGroff
3849 Corbin Rd.
Verona, WI 53593
Project No. 112137.00

Issued For:
No. Description Date
01 City of Madison Internal 02/08/2012

URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
SUBMITTED FEBRUARY 8, 2012 FOR:
FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
APRIL 9, 2012 PLAN COMMISSION MEETING

Drawn by: P.J.H.
Checked by: J.A.L.
File: P-SP.dwg

Site Plan



CITY OF MADISON FIRE DEPARTMENT

Fire Prevention Division, 325 W. Johnson St., Madison, WI 53703 ♦ Phone: 608-266-4484 ♦ FAX: 608-267-1153

Project Address: 640 West Wilson Street

Contact Name & Phone #: Lt McGrath, LLC c/o Lance McGrath 608.345.3975

FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

1. Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
If non-sprinklered , fire lanes extend to within 150-feet of all portions of the exterior wall?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
If sprinklered , fire lanes are within 250-feet of all portions of the exterior wall?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

2. Is the fire lane constructed of concrete or asphalt, designed to support a minimum load of 85,000 lbs?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
a) Is the fire lane a minimum unobstructed width of at least 20-feet?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b) Is the fire lane unobstructed with a vertical clearance of at least 13½-feet?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c) Is the minimum inside turning radius of the fire lane at least 28-feet?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
d) Is the grade of the fire lane not more than a slope of 8%?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
e) Is the fire lane posted as fire lane?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
a. Is a detail of the signage included on the site plan?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
f) Is a roll-able curb used as part of the fire lane?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
a. Is a detail of the curb included on the site plan?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
g) Is part of a sidewalk used as part of the required fire lane?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
a. Is the sidewalk constructed to withstand 85,000-lbs?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

3. Is the fire lane obstructed by security gates or barricades? If yes:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
a) Is the gate a minimum of 20-feet clear opening?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b) Is an approved means of emergency operations installed, key vault, padlock or key switch?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

4. Is the Fire lane dead-ended with a length greater than 150-feet?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, is the area for turning around fire apparatus provided by:			
a) A cul-de-sac with a minimum inside diameter of 70-feet?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b) A 45-degree wye with a minimum length of 60-feet per side?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c) A 90-degree tee with a minimum length of 60-feet per side?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

5. Is any portion of the building to be used for high-piled storage in accordance with IFC Chapter 23?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, see IFC 2306.6 for further requirements.			

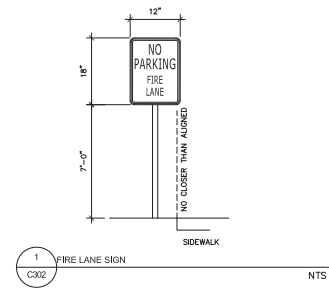
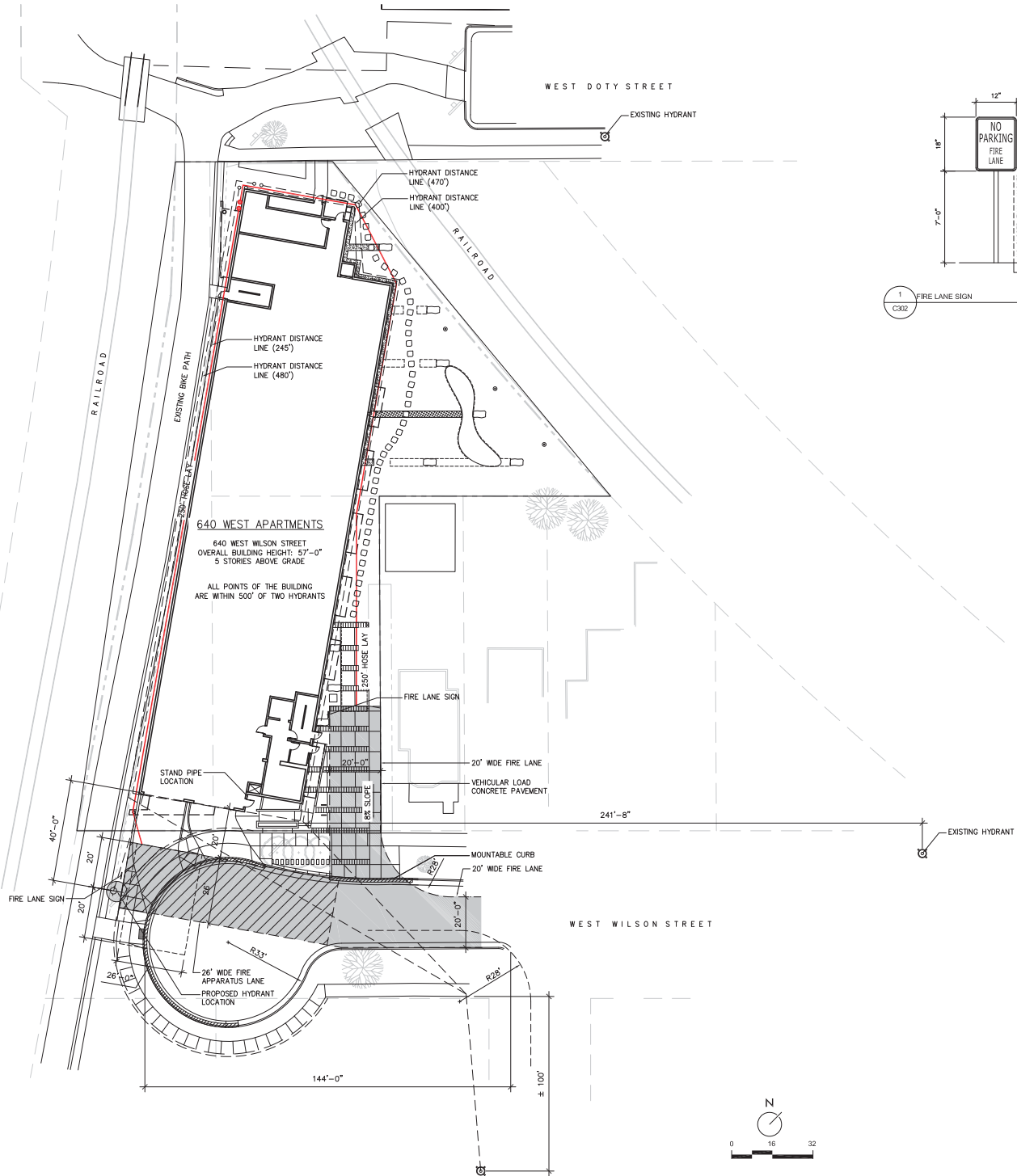
6. Is any part of the building <u>greater than 30-feet</u> above the lowest level of fire apparatus access?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, answer the following questions:			
a) Is the aerial apparatus fire lane parallel to one entire side of the building?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c) Are there any overhead power or utility lines located across the aerial apparatus fire lane?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
d) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

7. Are all portions of the required fire lanes within 500-feet of at least (2) hydrants?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<i>Note: Distances shall be measured along the path of the hose lay as it comes off the fire apparatus.</i>			
a) Is the fire lane at least 26' wide for at least 20-feet on each side of the hydrants?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
b) Is there at least 40' between a hydrant and the building?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
c) Are the hydrant(s) setback no less than 5-feet nor more than 10-feet from the curb or edge of the street or fire lane?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
d) Are hydrants located in parking lot islands a minimum of 3½-feet from the hydrant to the curb?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
e) Are there no obstructions, including but not limited to: power poles, trees, bushes, fences, posts located, or grade changes exceeding 1½-feet, within 5-feet of a fire hydrant?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A

Note: Hydrants shall be installed and in-service prior to combustible construction on the project site.

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

This worksheet is based on **MGO 34.20** and **IFC 2006 Edition Chapter 5 and Appendix D**; please see the codes for further information.



Issued For	Date
No. Description	Date
01 City of Madison Council	02/08/2012

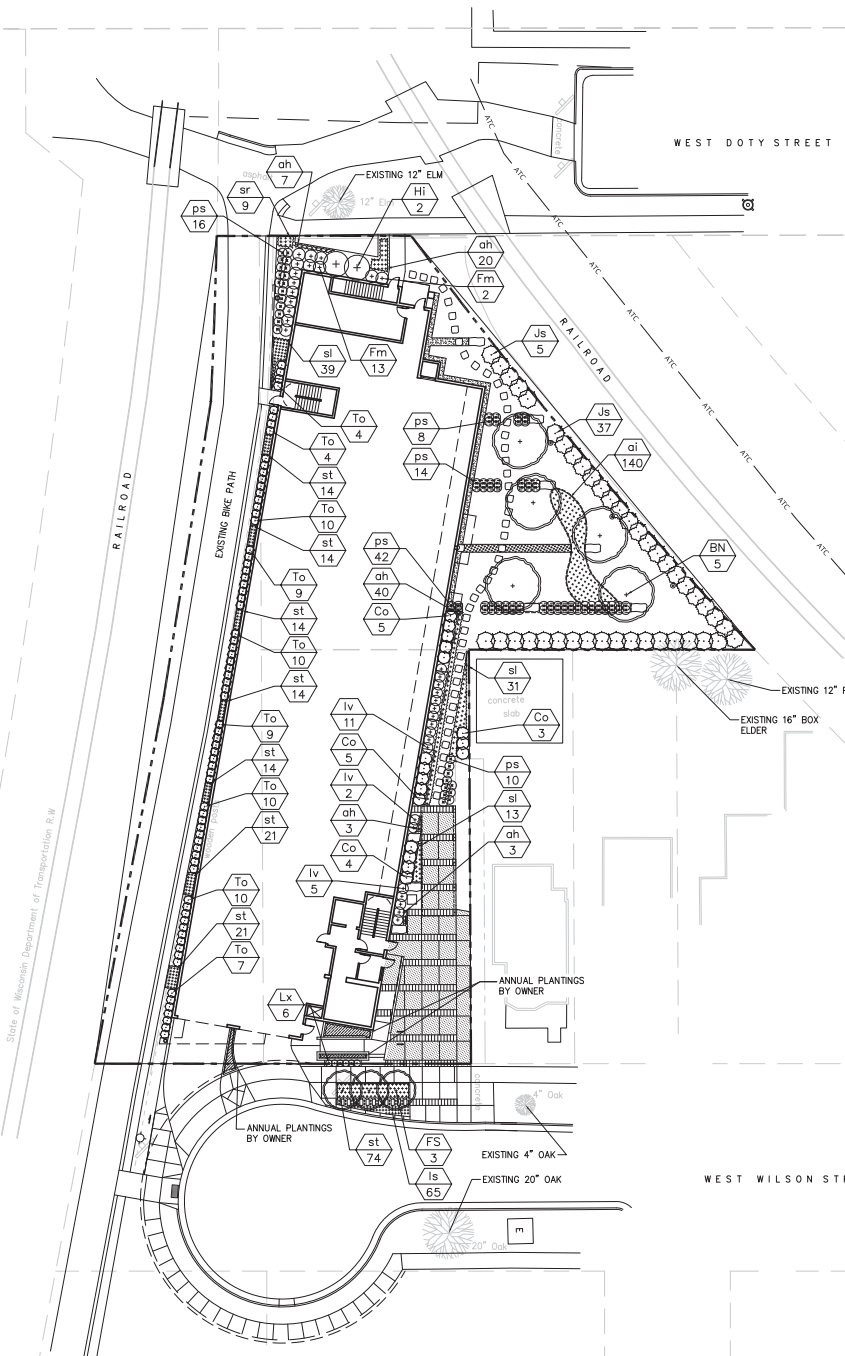
URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
SUBMITTED FEBRUARY 8, 2012 FOR:
FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
APRIL 9, 2012 PLAN COMMISSION MEETING

Drawn by P.JH
Checked by JAL
File P-SP.dwg

Fire Access Plan

C302

State of Wisconsin Department of Transportation, R 8



LANDSCAPE PLANT LEGEND

Symbol	Botanical name	Common Name	Size	Root	Quantity	Comments
DECIDUOUS TREES						
BN	<i>Betula nigra</i> 'Heritage'	Heritage River Birch	2.5" CAL.	B&B	5	MULTI-STEM
FS	<i>Fagus sylvatica</i> 'Fastigiata'	Fastigiata European Beech	3" CAL.	B&B	3	
EVERGREEN TREES/SHRUBS						
Co	<i>Chamaecyparis obtusa</i> 'Nana Gracilis'	Dwarf Hinoki Cypress	5 Gal.	CG	17	
To	<i>Thuja occidentalis</i> 'Holmstrup'	Holmstrup Arborvitae	5 Gal.	CG	73	
Js	<i>Juniperus chinensis</i> 'Sea Green'	Taunton Yew	5 Gal.	CG	42	
DECIDUOUS SHRUBS						
Fm	<i>Fothergilla major</i> 'Mt. Airy'	Mt. Airy Fothergilla	5 Gal.	CG	15	
Hi	<i>Hamamelis x intermedia</i> 'Jelena'	Jelena Witch Hazel	5 Gal.	CG	2	
Iv	<i>Itea virginica</i> 'Henry's Garnet'	Henry's Garnet Sweetspire	5 Gal.	CG	18	
Lx	<i>Lonicera x xystocheoides</i> 'Miniglobe'	Miniglobe Honeysuckle	3 Gal.	CG	6	
PERENNIALS/GRASSES/GROUNDCOVERS						
ah	<i>Amanita hybridis</i> 'Halfway to Arkansas'	Halfway to Arkansas Narrow Leaf Blue Star	1 Gal.	CG	73	
ai	<i>Amanita illustris</i>	Ozark Bluestar	1 Gal.	CG	140	
ls	<i>Liriope spicata</i>	Creeping Lily Turf	1 Gal.	CG	65	
sl	<i>Sesleria autumnalis</i>	Autumn Moor Grass	1 Gal.	CG	83	
sr	<i>Solidago rugosa</i> 'Fireworks'	Fireworks Goldenrod	1 Gal.	CG	9	
st	<i>Sporobolus heterolepis</i> 'Tara'	Tara Prairie Dropseed	1 Gal.	CG	186	
ps	<i>Panicum virgatum</i> 'Shenandoah'	Shenandoah Switch Grass	1 Gal.	CG	90	

LANDSCAPE POINTS

NUMBER OF TREES REQUIRED:	0 - ALL COVERED	TABULATION OF POINTS PROVIDED:	ORNAMENTAL TREES	15/94	8	120
NUMBER OF PARKING STALLS:	0 - NO STORAGE AREA	DECIDUOUS SHRUBS	2/94	41	82	
STORAGE AREA SQUARE FOOTAGE:	0 - NO STORAGE AREA	EVERGREEN SHRUBS	3/94	132	396	
CANOPY TREES REQUIRED:	0 - NO TREES REQUIRED	TOTAL POINTS			598 pts	
NUMBER OF LANDSCAPE POINTS REQUIRED:	0 - ALL COVERED					
POINTS REQUIRED PER PARKING STALL:	75 - LOADING AREA					
TOTAL POINTS REQUIRED:	75 - POINTS REQUIRED					



MILWAUKEE • MADISON • TUCSON



640 WEST APARTMENTS
640 West Wilson St.
Waukesha, WI 53093

LT McGrath, LLC
Lance McGrath
3849 Corbin Rd.
Waukesha, WI 53093

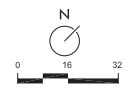
Project No. 1121720

Issued For: _____
No. _____ Description _____ Date _____
By: _____ Of: _____

URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
SUBMITTED FEBRUARY 8, 2012 FOR:
FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
APRIL 9, 2012 PLAN COMMISSION MEETING

Drawn by: P.J.H.
Checked by: J.A.L.
File: P-LS.dwg

Landscape Plan



C401

Deciduous Trees



Heritage River Birch

- Multi stem
- Fall color, attractive bark
- Filtered shade



Fastigate European Beech

- Columnar
- Fall color, attractive bark
- Specimen tree



Evergreen Shrubs



Dwarf Hinoki Cypress

- Informal hedge
- Evergreen
- Unique texture



Holmstrup Arborvitae

- Dense, arching branches
- Evergreen
- Drought tolerant, very adaptable



Sea Green Juniper

- Informal hedge
- Evergreen
- Drought tolerant, very adaptable

Deciduous Shrubs



Henry's Garnet Sweetspire

- Upright habit
- Informal hedge
- Fall color, fruit



Mt. Airy Fothergilla

- Multi-season plant
- Mass plantings
- Flowering, fall color



Jelena Witch Hazel

- Specimen plant
- Fall color
- Winter flowers



Mini-Globe Honeysuckle

- Low growing
- Compact habit
- Flowering



Grasses and perennials



Halfway to Arkansas Narrow Leaf Blue Star

- Flowering, fall color
- Adaptable
- Low growing



Ozark Blue Star

- Flowering, fall color
- Adaptable
- Bio-filtration plant



Creeping Lily Turf

- Flowering
- Semi-evergreen
- Groundcover



Autumn Moor Grass

- Multi-season interest
- Fall color
- Compact form



Fireworks Goldenrod

- Multi-season interest
- Flowering
- Mass planting



Tara Prairie Dropseed

- Multi-season interest
- Fall color
- Compact form



Shenandoah Switch Grass

- Multi-season interest
- Fall color
- Upright form

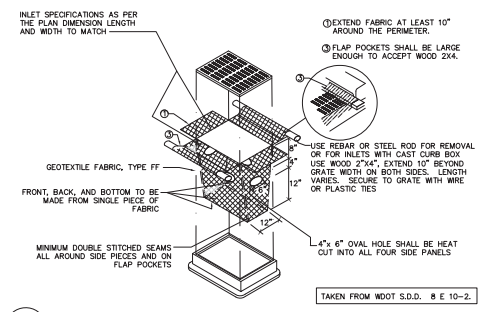


URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
 SUBMITTED FEBRUARY 8, 2012 FOR:
 FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
 APRIL 9, 2012 PLAN COMMISSION MEETING

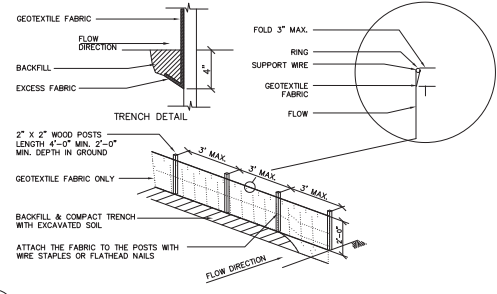
Drawn by: P.J.H.
 Checked by: J.A.L.
 File: P-D.dwg

Site Details

C501



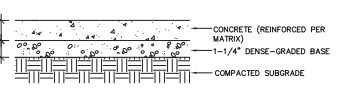
1 INLET PROTECTION TYPE "D"
C501 NTS



2 SILT FENCE
C501 PER WDNR TECHNICAL STANDARD 1056 NTS

PAVEMENT TYPE:	CONCRETE THICKNESS (A)	BASE THICKNESS (B)
CONCR. PAVEMENT-PEDESTRIAN LOAD*	4"	4"
CONCR. PAVEMENT-VEHICULAR LOAD*	6"	6"

* PAVEMENT TYPE MAY BE COLORED OR TEXTURED. REFER TO PLANS AND SPECIFICATIONS FOR LOCATION AND TYPE



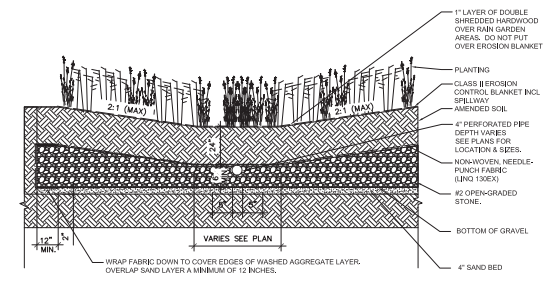
3 RAIN GARDEN OUTLET STRUCTURE
C501 NTS

RAIN GARDEN GENERAL NOTES:

- ALL CONSTRUCTION PRACTICES SHALL MEET THE SPECIFICATIONS OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR), COUNTY, MUNICIPALITY, AND ENGINEERING STANDARD OF CARE. ALL DESIGNATED INFILTRATION AREAS (e.g. RAIN GARDENS, INFILTRATION BASINS, BIORETENTION DEVICES) SHALL BE FENCED PRIOR TO CONSTRUCTION AND REMAIN UNDISTURBED AND PROTECTED DURING THE CONSTRUCTION OF PROPOSED SITE IMPROVEMENTS. PROPOSED BIORETENTION DEVICES SHALL NOT BE CONSTRUCTED UNTIL THE DEVICE'S CONTRIBUTING WATERSHED AREA MEETS ESTABLISHED VEGETATION REQUIREMENTS SET FORTH WITHIN THE RESPECTIVE WDNR TECHNICAL STANDARDS. IF THE LOCATION OF THE INFILTRATION AREA CONFLICTS WITH CONSTRUCTION STAGING AND/OR CONSTRUCTION TRAFFIC AND IS DISTURBED, COMPACTION MITIGATION WILL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL INSTALL 24" OF ENGINEERED SOIL CONSISTING OF: 75% ASTM C33 SAND AND 25% CERTIFIED COMPOST (S-100). FILL BIO-SWALE AREA 2-3" ABOVE SURROUNDING FINISH GRADE TO ACCOMMODATE SETTLING OF RAIN GARDEN MATERIAL.
- CERTIFIED COMPOST SHALL CONSIST OF: >40% ORGANIC MATTER, <60% ASH CONTENT, pH OF 6-8, AND MOISTURE CONTENT OF 35-50% BY WEIGHT.
- SAND/NATIVE SOIL INFILTRATION LAYER SHALL BE FORMED BY A LAYER OF SAND 3 INCHES DEEP, WHICH IS VERTICALLY MIXED WITH THE NATIVE SOIL TO A DEPTH OF 2-4 INCHES.
- FILTER FABRIC SHALL BE PLACED ABOVE THE PERFORATED PIPE, BETWEEN THE PEA GRAVEL AND THE ENGINEERED SOIL. A WIDTH OF 4 FEET CENTERED OVER THE FLOW LINE OF THE PIPE.
- ANNUAL RYE GRASS SHALL BE SEED AT 40 LB/ACRE WITH THE SEED MIX IN THE AREAS SURROUNDING THE BASIN, ON SIDE SLOPES, AND OVER ANY LAND THAT DISCHARGES INTO THE BASIN FOR EROSION CONTROL WHEN BASIN IS BROUGHT ON-LINE. ROOTSTOPS AND PULKS ARE REQUIRED TO ESTABLISH VEGETATION AT THE INVERT OF THE BASIN.
- RUNOFF MUST INFILTRATE WITHIN 48-HOURS. BASINS UNABLE TO MAINTAIN THESE RATES MUST BE DEEP TILLED, REGRADED, AND IF NECESSARY REPLANTED TO RESTORE ORIGINAL INFILTRATION RATES.
- ALL WORK TO BE CONDUCTED IN CONFORMANCE WITH APPLICABLE LOCAL, REGIONAL, AND STATE STORMWATER STANDARDS FOR THE PROJECT SITE AS APPROVED BY THE REGULATORY ENGINEER.
- OWNER OR CONTRACTOR MUST CONSULT LANDSCAPE ARCHITECT OR ECOLOGICAL PLANTING AGENCY FOR APPROPRIATE PLANTS AND PLANTING CONFIGURATIONS.
- RAIN GARDEN AREAS SHALL BE HAND OR BACK HOE LAID. EQUIPMENT SHALL NOT BE DRIVEN ON SOIL MIX DURING OR AFTER INSTALLATION.

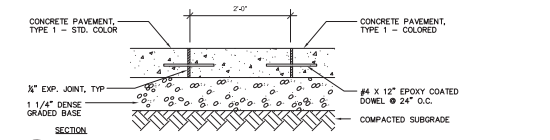
INFILTRATION DEVICES ARE DESIGNED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR), COUNTY, MUNICIPALITY, AND ENGINEERING STANDARD OF CARE. ALL DESIGNATED INFILTRATION AREAS (e.g. RAIN GARDENS, INFILTRATION BASINS, BIORETENTION DEVICES) SHALL BE FENCED PRIOR TO CONSTRUCTION AND REMAIN UNDISTURBED AND PROTECTED DURING THE CONSTRUCTION OF PROPOSED SITE IMPROVEMENTS. PROPOSED BIORETENTION DEVICES SHALL NOT BE CONSTRUCTED UNTIL THE DEVICE'S CONTRIBUTING WATERSHED AREA MEETS ESTABLISHED VEGETATION REQUIREMENTS SET FORTH WITHIN THE RESPECTIVE WDNR TECHNICAL STANDARDS. IF THE LOCATION OF THE INFILTRATION AREA CONFLICTS WITH CONSTRUCTION STAGING AND/OR CONSTRUCTION TRAFFIC AND IS DISTURBED, COMPACTION MITIGATION WILL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS REQUIRED TO PROVIDE QUALIFIED STAFF FOR INSPECTION AND OBSERVATION OF THE CONSTRUCTION ACTIVITIES RELATING TO ALL JOB SITE REGULATORY COMPLIANCE INCLUDING THE PROTECTION AND CONSTRUCTION OF ALL STORMWATER MANAGEMENT FEATURES. ANY OBSERVATION OF PLAN OR SITE DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

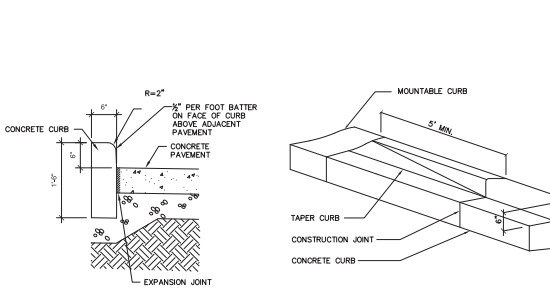


4 RAIN GARDEN
C501 NTS

5 CONCRETE PAVEMENT
C501 SCALE 1" = 1'-0"



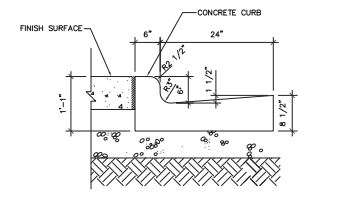
7 COLORED CONCRETE BAND
C501 SCALE 1" = 1'-0"



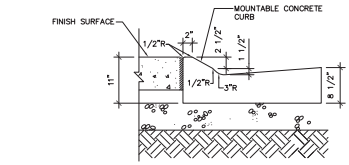
6 TYPE "A" CONCRETE CURB
C501 PER MADISON SDD 3.06 SCALE 1" = 1'-0"

9 LANDSCAPE CURB
C501 SCALE 1" = 1'-0"

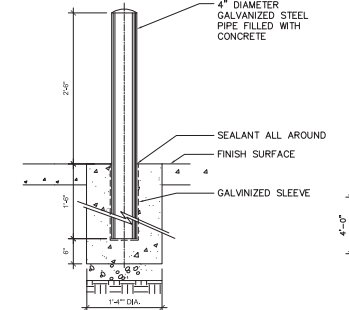
10 CURB TRANSITION
C501 SCALE 1" = 1'-0"



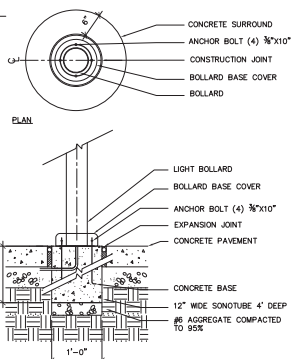
6 TYPE "A" CONCRETE CURB
C501 PER MADISON SDD 3.06 SCALE 1" = 1'-0"



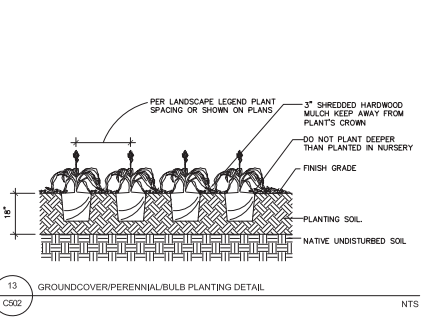
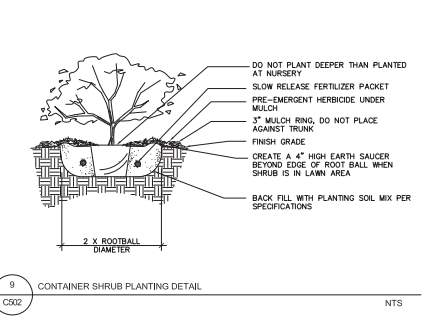
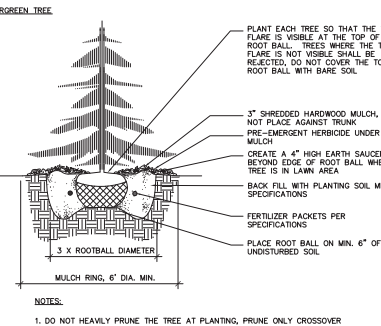
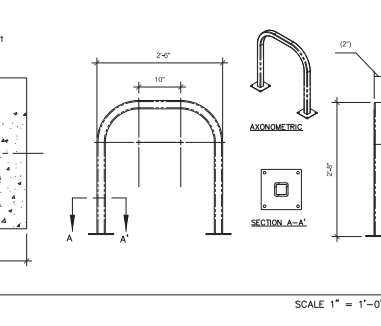
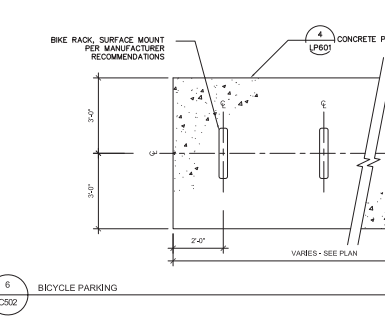
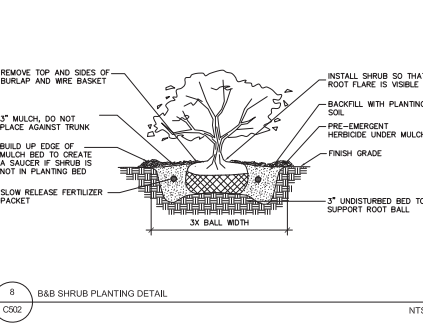
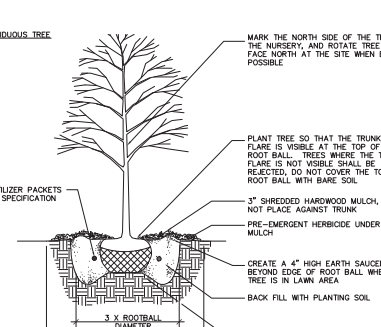
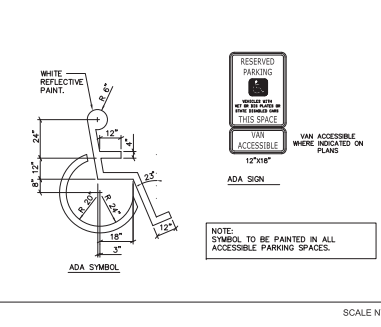
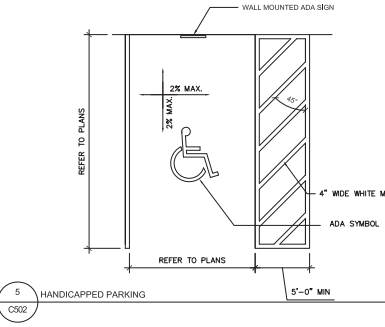
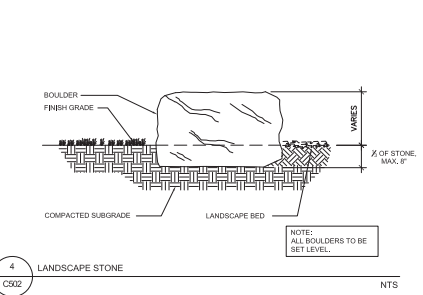
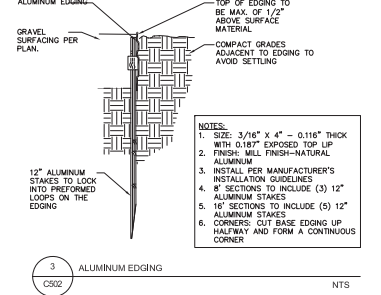
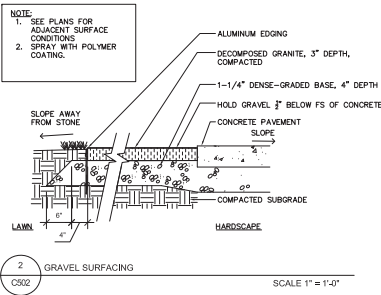
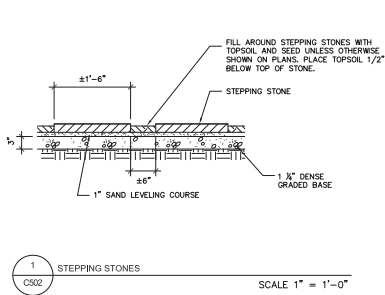
8 TYPE "A" MOUNTABLE CURB
C501 PER MADISON SDD 3.06 SCALE 1" = 1'-0"



11 BOLLARD
C501 NTS



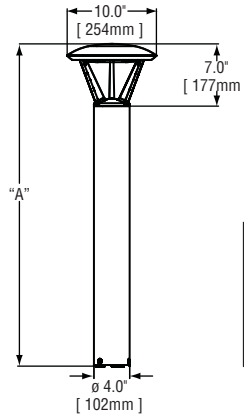
12 LIGHTED BOLLARD
C501 NTS



BetaLED Catalog #: PWY - EDG - 3M - - 02 - C - - - -



Notes:



Model	Dim. "A"
Landscape-12	13"
Landscape-18	18"
Pathway	36"
Pathway	42"
Pedestrian	96"

Product	Family	Optic	Mounting	# of LEDs (x 10)	LED Series	Voltage	Color Options	Factory-Installed Options
PWY	EDG Pathway Light	3M ¹ Type III Medium	<input type="checkbox"/> P0 ² <input type="checkbox"/> P1 ³ <input type="checkbox"/> P3 ⁴ <input type="checkbox"/> P4 ⁵ <input type="checkbox"/> P8 ⁶	02 ⁷	C	<input type="checkbox"/> UL Universal 120–277V <input type="checkbox"/> UH ⁸ Universal 347–480V <input type="checkbox"/> 12 120V <input type="checkbox"/> 27 277V <input type="checkbox"/> 34 ⁹ 347V	<input type="checkbox"/> SV Silver <input type="checkbox"/> BK Black <input type="checkbox"/> WH White <input type="checkbox"/> BZ Bronze <input type="checkbox"/> PB Platinum Bronze	Please type additional options in manually on the lines provided above. <input type="checkbox"/> 43K 4300K Color Temperature ⁹ <input type="checkbox"/> 525 525mA Drive Current ¹⁰ <input type="checkbox"/> F Fuse ^{11,12} <input type="checkbox"/> HL Hi/Low (175/350/525, dual circuit input) ^{13,14} <input type="checkbox"/> TL Two-Level (175/525 w/ integrated sensor control) ^{13,14} <input type="checkbox"/> TL2 Two-Level (0/350 w/ integrated sensor control) ^{13,14} <input type="checkbox"/> TL3 Two-Level (0/525 w/ integrated sensor control) ^{13,14}

Footnotes

- 1. IESNA Type III Medium distribution
- 2. 13" landscape fixture
- 3. 18" landscape fixture
- 4. 3' pathway fixture (bollard)
- 5. 42" pathway fixture (bollard)
- 6. 8' pedestrian fixture
- 7. Actual number of LEDs provided is 18
- 8. Available with 3, 4 and 8 mounting options
- 9. Color temperature per fixture; minimum 70 CRI
- 10. Driver operates at 525mA instead of the standard 350mA providing a higher lumen output and a shorter life
- 11. Not available when UH voltage is selected
- 12. When code dictates fusing use time delay fuse
- 13. Refer to multi-level spec sheet for availability and additional information
- 14. Available with 1, 3, 4 and 8 mounting options

LED PERFORMANCE SPECS

# of LEDs	Initial Delivered Lumens – Type III Medium @ 6000K	Rating***			Initial Delivered Lumens – Type III Medium @ 4300K	Rating***			System Watts 120–277V	Total Current @ 120V	Total Current @ 230V	Total Current @ 277V	System Watts 347–480V*	Total Current @ 347V	Total Current @ 480V	L ₇₀ Hours** @ 25° C (77° F)
		B	U	G		B	U	G								
350mA (Standard) Fixture Operating at 25° C (77° F)																
18	1,344 (02)	1	2	1	1,179 (02)	1	2	1	24	0.20	0.11	0.10	30	0.10	0.14	150,000
525mA Fixture Operating at 25° C (77° F)																
18	1,748 (02)	1	2	1	1,533 (02)	1	2	1	38	0.32	0.18	0.16	44	0.13	0.15	92,000

* Utilizes magnetic step-down transformer when 525mA drive current or multi-level options are selected ** For recommended lumen depreciation data see [TD-13](#) *** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit www.iesna.org/PDF/Erratas/TM-15-07BugRatingsAddendum.pdf

NOTE: All data subject to change without notice.



General Description

Extruded aluminum housing fastens to a die-cast aluminum base with four 1/4"-20 flat head stainless steel screws. Standard cast aluminum top with molded clear acrylic lens, polycarbonate lens available. Top mounted LEDs for superior optical performance and light control. Five year limited warranty on fixture.

Electrical

Fixture lit by 18W high power, cool white, 6000K (+/- 500k per full fixture), minimum 70 CRI, long life LED sources. 120-277V 50/60 Hz, Class 1 LED drivers are standard. 347-480V 50/60 Hz driver is optional. LED drivers have power factor >90% at full load. Integral weather-tight J-box with leads (wire nuts) for easy power hook-up. Surge protection tested in accordance with IEEE C62.41.2 and ANSI standard 62.41.2.

Testing & Compliance

UL listed in the U.S. and Canada for wet locations. Consult factory for CE Certified products. RoHS compliant. International Dark-Sky Association approved.

Finish

Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable bronze powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, black, white and platinum bronze powder topcoats are also available. The finish is covered by our 10 year limited warranty.

Fixture and finish are endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117.

Patents

U.S. and international patents granted and pending. BetaLED is a division of Ruud Lighting, Inc. For a listing of Ruud Lighting, Inc. patents, visit www.uspto.gov.

Field-Installed Accessories**Retro-Fit Kit**

Used for replacement of existing bollards.

- XA-XBP8RSV
- XA-XBP8RBK
- XA-XBP8RWH
- XA-XBP8RBZ
- XA-XBP8RPB

Photometrics

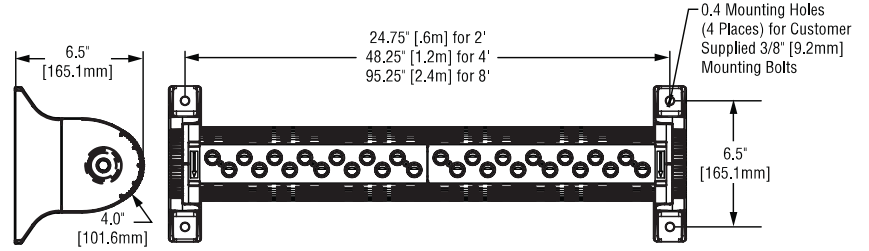
NOTE: All data subject to change without notice.

© 2010 BetaLED®, a division of Ruud Lighting • 1200 92nd Street • Sturtevant, WI 53177 • 800-236-6800 • www.betaLED.com



Made in the U.S.A. of U.S. and imported parts.
Meets Buy American requirements within the [ARRA](#).

BetaLED Catalog #: FLD - OL - 40 - - - D - - - - -



Notes:

Product	Family	Optic	Mounting/Length in ft	# of LEDs (ft)	LED Series	Voltage	Color Options	Drive Current	Factory-Installed Options
FLD	OL	40 ¹	<input type="checkbox"/> D2 ² <input type="checkbox"/> D4 ² <input type="checkbox"/> D8 ²	<input type="checkbox"/> 07 <input type="checkbox"/> 14	D	<input type="checkbox"/> UL Universal 120–277V <input type="checkbox"/> UH Universal 347–480V	<input type="checkbox"/> BK Black <input type="checkbox"/> BZ Bronze <input type="checkbox"/> PB Platinum Bronze <input type="checkbox"/> SV Silver (Standard) <input type="checkbox"/> WH White	<input type="checkbox"/> 700 700mA (Standard) <input type="checkbox"/> 525 525mA <input type="checkbox"/> 350 350mA	Please type additional options in manually on the lines provided above. <input type="checkbox"/> 40K 4000K Color Temperature ³ <input type="checkbox"/> 35K 3500K Color Temperature ³ <input type="checkbox"/> DIM 0–10V Dimming ^{4,5,6}

Footnotes

- Distribution similar to flood (40°)
- D = Direct Rotatable; 2 = 2' (.6m), 4 = 4' (1.2m), 8 = 8' (2.4m)
- Color temperature per light bar; 70 CRI, 5700K standard; 4000K and 3500K; minimum 80 CRI optional
- Control by others
- Refer to [dimming spec sheet](#) for availability and additional information
- Can't exceed specified drive current; consult factory if exceeding drive current is necessary

LED PERFORMANCE SPECS												
# of LEDs /ft		Initial Delivered Lumens – 40° Flood Optic @ 5700K	Initial Delivered Lumens – 40° Flood Optic @ 4000K	System Watts 120–480V	Total Current @ 120V	Total Current @ 208V	Total Current @ 240V	Total Current @ 277V	Total Current @ 347V	Total Current @ 480V	L ₇₀ Hours* @ 25° C (77° F)	50K Hours Lumen Maintenance Factor* @ 15° C (59° F)
350mA Fixture Operating at 25° C (77° F)												
2ft (.6m)	07	1,271 (07)	1,115 (07)	19	0.16	0.11	0.08	0.09	0.07	0.07	> 150,000	94%
	14	2,492 (14)	2,186 (14)	35	0.28	0.18	0.18	0.16	0.11	0.09	> 150,000	
4ft (1.2m)	07	2,542 (07)	2,229 (07)	35	0.28	0.18	0.18	0.16	0.11	0.09	> 150,000	
	14	4,983 (14)	4,371 (14)	64	0.54	0.28	0.28	0.25	0.15	0.19	> 150,000	
8ft (2.4m)	07	5,083 (07)	4,459 (07)	64	0.54	0.28	0.28	0.25	0.15	0.19	> 150,000	
	14	9,966 (14)	8,742 (14)	126	1.10	0.58	0.58	0.53	0.26	0.36	> 150,000	
525mA Fixture Operating at 25° C (77° F)												
2ft (.6m)	07	1,855 (07)	1,627 (07)	25	0.21	0.11	0.11	0.09	0.08	0.09	> 150,000	93%
	14	3,638 (14)	3,191 (14)	50	0.41	0.22	0.22	0.20	0.12	0.15	144,000	
4ft (1.2m)	07	3,711 (07)	3,255 (07)	50	0.41	0.22	0.22	0.20	0.12	0.15	> 150,000	
	14	7,275 (14)	6,382 (14)	94	0.81	0.41	0.41	0.37	0.28	0.21	144,000	
8ft (2.4m)	07	7,421 (07)	6,510 (07)	94	0.81	0.41	0.41	0.37	0.25	0.21	> 150,000	
	14	14,551 (14)	12,764 (14)	187	1.61	0.81	0.81	0.73	0.55	0.41	144,000	
700mA (Standard) Fixture Operating at 25° C (77° F)												
2ft (.6m)	07	2,338 (07)	2,051 (07)	37	0.32	0.23	0.17	0.18	0.11	0.09	136,000	91%
	14	4,584 (14)	4,021 (14)	66	0.55	0.33	0.29	0.26	0.20	0.15	122,000	
4ft (1.2m)	07	4,676 (07)	4,102 (07)	66	0.55	0.33	0.29	0.26	0.20	0.15	136,000	
	14	9,169 (14)	8,043 (14)	126	1.09	0.64	0.54	0.48	0.37	0.27	122,000	
8ft (2.4m)	07	9,353 (07)	8,204 (07)	126	1.09	0.64	0.54	0.48	0.37	0.27	136,000	
	14	18,338 (14)	16,086 (14)	251	2.17	1.26	1.08	0.96	0.54	0.54	122,000	

* For recommended lumen maintenance factor data see [TD-13](#)



General Description

Slim low profile design. Luminaire is constructed from rugged extruded aluminum housing and die cast end caps for superior heat dissipation and durability. Integral weather-tight LED driver compartment and high performance aluminum heatsinks. Rugged die cast mounting pads provide for solid and secure luminaire mounting. Optional field installable extruded aluminum arms to space luminaire up to 18" (457mm) away from the mounting surface.

Luminaire body is rotatable 360 degrees in 5 degree increments for proper aiming and uniform illumination. Rotation is clearly marked with index marks on end caps.

Electrical

Modular design accomodates varied lighting output from high power, white, 5700K (+/- 500K per light bar), minimum 70 CRI, long life LED sources. Optional 4000K (+/- 100K per light bar) and 3500K (+/- 100K per light bar), both with minimum 80 CRI LED sources are also available. 120–277V 50/60 Hz, Class 1 LED drivers are standard. 347–480V 50/60 HZ option is available. LED drivers have power factor >90% and THD <20% at full load. Units provided with integral 10V surge protection. 36" (914mm) outdoor rated flexible power cord is provided for electrical connection. Surge protection tested in accordance with IEEE/ANSI C62.41.2.

Finish

Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable silver powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Bronze, black, white, and platinum bronze powder topcoats are also available. The finish is covered by our 10 year limited warranty. Fixture and finish are endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117.

Patents

U.S. and international patents granted and pending. BetaLED is a division of Ruud Lighting, Inc. For a listing of Ruud Lighting, Inc. patents, visit www.uspto.gov.

Testing & Compliance

UL listed in the US and in Canada for wet locations and enclosure classified IP66 per IEC 60529. Consult factory for CE Certified products. RoHS Compliant.



Field-Installed Accessories



9" (229mm) Extension Arm
Spaces luminaire center 9" (229mm) away from the mounting surface

- XA-XFR9SV
- XA-XFR9WH
- XA-XFR9BK
- XA-XFR9PB
- XA-XFR9BZ

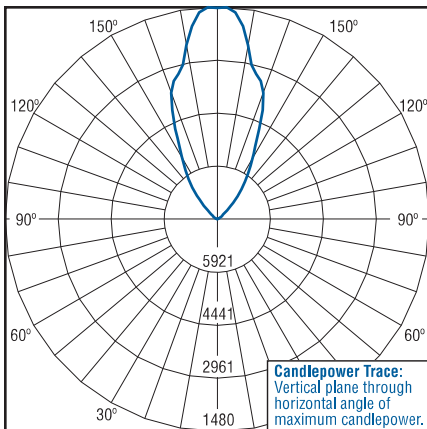
12" (305mm) Extension Arm
Spaces luminaire center 12" (305mm) away from the mounting surface

- XA-XFR12SV
- XA-XFR12WH
- XA-XFR12BK
- XA-XFR12PB
- XA-XFR12BZ

18" (457mm) Extension Arm
Spaces luminaire center 18" (457mm) away from the mounting surface

- XA-XFR18SV
- XA-XFR18WH
- XA-XFR18BK
- XA-XFR18PB
- XA-XFR18BZ

Photometrics



Independent Testing Laboratories certified test. Report No. ITL68434. Candlepower trace of 5700K, 2' (.6m) linear flood luminaire with 14 LEDs per foot. 40° flood optic with 4,588 initial delivered lumens operating at 700mA. **All published luminaire photometric testing performed to IESNA LM-79-08 standards.**

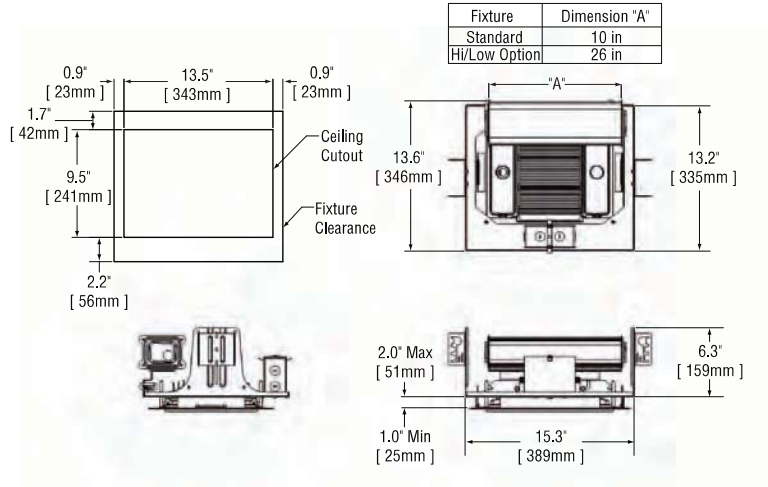


© 2011 Ruud Lighting Inc. – A Cree Company. All rights reserved. The information in this document is subject to change without notice. 9201 Washington Ave • Racine, WI 53406-3772 • 800-236-6800 • www.BetaLED.com



Made in the U.S.A. of U.S. and imported parts.
Meets Buy American requirements within the ABRA.

BetaLED Catalog #: SFT - 227 - 5M - RM - 03 - C - UL - - -



Notes:

Product	Family	Optic	Mounting	# of LEDs (x 10)	LED Series	Voltage	Color Options	Factory-Installed Options
SFT	227	5M ¹	RM ²	03	C	UL Universal 120-277V	<input type="checkbox"/> WH White <input type="checkbox"/> SV Silver <input type="checkbox"/> BK Black <input type="checkbox"/> BZ Bronze <input type="checkbox"/> PB Platinum Bronze	Please type additional options in manually on the lines provided above. <input type="checkbox"/> 43K 4300K Color Temperature ³ <input type="checkbox"/> F Fuse <input type="checkbox"/> HL Hi/Low (175/350/525, dual circuit input) ^{4,5} For remodel option, see remodel spec sheet .

Footnotes

1. IESNA Type V Medium distribution
2. Recessed soffit mount for new construction
3. Color temperature per fixture; minimum 70 CRI
4. Refer to table for physical size change in driver housing length
5. Sensor not included

LED PERFORMANCE SPECS

# of LEDs	Initial Delivered Lumens – Type V Medium @ 6000K	Rating**			Initial Delivered Lumens – Type V Medium @ 4300K	Rating**			System Watts 120-277V	Total Current @ 120V	Total Current @ 230V	Total Current @ 277V	L ₇₀ Hours* @ 25° C (77° F)
		B	U	G		B	U	G					
350mA (Standard) Fixture Operating at 25° C (77° F)													
30	2,792 (03)	2	1	1	2,449 (03)	2	1	1	39	0.33	0.19	0.17	141,000

* For recommended lumen depreciation data see [ID-13](#).

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit www.iesna.org/PDF/Erratas/TM-15-07BugRatingsAddendum.pdf

NOTE: All data subject to change without notice.

© 2010 BetaLED®, a division of Ruud Lighting • 1200 92nd Street • Sturtevant, WI 53177 • 800-236-6800 • www.betaLED.com



Made in the U.S.A. of U.S. and imported parts.
Meets Buy American requirements within the [ABRA](#).



General Description

High performance energy efficient LED down light, designed for use in drop ceilings or new construction applications with 16" to 24" on center building construction. Heavy gauge steel recessed mounting frame features 1-1/2" deep aperture throat to accommodate most standard ceiling thicknesses, and a universal mounting brackets that accept 1/2" EMT conduit, C-channel mounting bars or flat bar hangers with 5" vertical adjustment from either above or below the ceiling. An oversized junction box is listed for eight #12 AWG feed through wires.

Luminaire sides are rugged cast aluminum with high performance extruded aluminum heat sink specifically designed for high power LED. It is factory assembled to the trim plate and wired to the driver.

Driver compartment is constructed of anodized extruded aluminum with stainless steel end panels for exceptional thermal performance. Driver is factory wired to the luminaire optical housing and features a quick connect power harness.

Five year limited warranty on luminaire.

Electrical

Modular design accommodates varied lighting output from high power, white, 6000K (+/- 500k per full fixture), minimum 70 CRI, long life LED sources. 120-277V 50/60 Hz, Class 1 LED drivers are standard. LED drivers have power factor >90% and THD <20% at full load.

Electrical Continued

Luminaire is Type IC in accordance with Article 410 of the NEC and UL 1598. It is suitable for direct contact with insulation.

Luminaire is listed for eight #12 AWG, 90C rated through branch circuit wires.

Meets FCC Title 47 CFR Part 18, Non-Consumer EMI and RFI emission levels.

Finish

Exclusive Colorfast DeltaGuard® finish on all cast aluminum components features an E-Coat epoxy primer with an ultra-durable white powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Bronze, black, white and platinum bronze powder topcoats are also available. Clear anodized finish on extruded aluminum heat sink. The finish is covered by our 10 year limited warranty.

Fixture and finish are endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117.

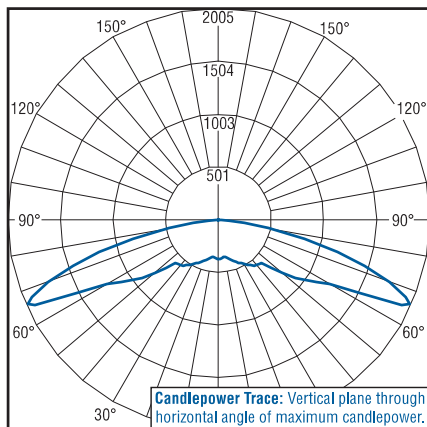
Testing & Compliance

UL listed in the U.S. and Canada for wet locations under covered ceilings. Consult factory for CE certified product. RoHS compliant. International Dark-Sky Association approved.

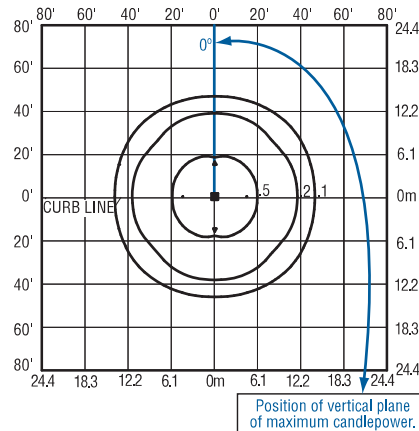
Patents

U.S. and international patents granted and pending. BetaLED is a division of Ruud Lighting, Inc. For a listing of Ruud Lighting, Inc. patents, visit www.uspto.gov.

Photometrics



Independent Testing Laboratories certified test. Report No. ITL63473. Candlepower trace of 6000K, 120 LED Type V Medium recessed soffit luminaire with 5,202 initial delivered lumens operating at 350mA. All published luminaire photometric testing performed to IESNA LM-79-08 standards.



Isofootcandle plot of 6000K, 30 LED Type V Medium recessed soffit luminaire at 15' A.F.G. Luminaire with 2,792 initial delivered lumens operating at 350mA. Initial FC at grade.

Field-Installed Accessories

Mounting C Channel - 30" Long
XA-MC30

Mounting C Channel - 14" Long
XA-MC14

Mounting C Channel - 22" Long
XA-MC22

Mounting Brackets
XA-MB4

Remote Motion Sensor Kit
Used to control a single or series of fixtures as On/Off controller or Hi/Low controller with HL option (rated for up to 800 watts @ 120V or 1200 watts @ 277V)

- XA-OMS108-UWL**
Up to 8' mounting height
- XA-OMS120-UWL**
Up to 20' mounting height
- XA-OMS140-UWL**
Up to 40' mounting height

DESCRIPTION

The patent pending Lumark Crosstour™ LED Wall Pack Series of luminaires provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks.

SPECIFICATION FEATURES

Construction

Slim, low profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and large design. The small housing is available in 10W and 20W. The large housing is available in the 30W model. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied lever-lock connectors. Back box includes three (3) half-inch, NPT threaded conduit entry points. The universal back box supports both the small and large forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Solid state LED Crosstour luminaires are thermally optimized with five (5) lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 10W models operate in -40°C to 40°C [-40°F to 104°F]. 20W and 30W models operate in -30°C to 40°C [-22°F to 104°F]. Crosstour luminaires

Catalog #		Type
Project		
Comments		Date
Prepared by		

maintain greater than 70% of initial light output after 50,000 hours of operation. Three (3) half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 10W, 120V 50/60 Hz., 20W and 30W, 120-277V 50/60Hz.

Finish

Crosstour is protected with a Super TGIC carbon bronze or summit white polyester powder coat paint. SuperTGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

Crosstour features a five-year limited warranty.



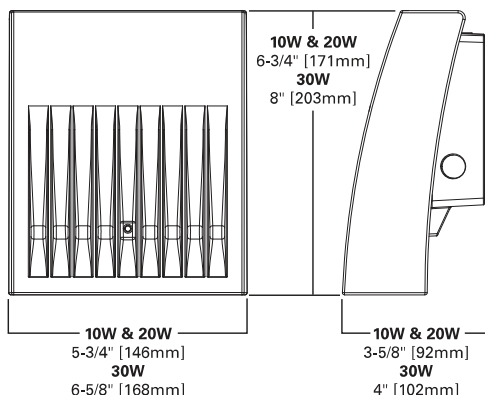
XTOR CROSSTOUR LED

WALL / SURFACE MOUNT
POST / BOLLARD MOUNT
LOW LEVEL MOUNT
INVERTED MOUNT

Sustainable Design

DESIGNLIGHTS
CONSORTIUM

DIMENSIONS



CERTIFICATION DATA

UL/cUL Wet Location Listed
IP66 Ingress Protection Rated
ADA Compliant
LM79 / LM80 Compliant
ROHS Compliant
ARRA Compliant
DLC Qualified Models
Lighting Facts® Approved
Title 24 Compliant
NOM Compliant Models

TECHNICAL DATA

40°C Maximum Ambient Temperature
External Supply Wiring 90°C Minimum

EPA

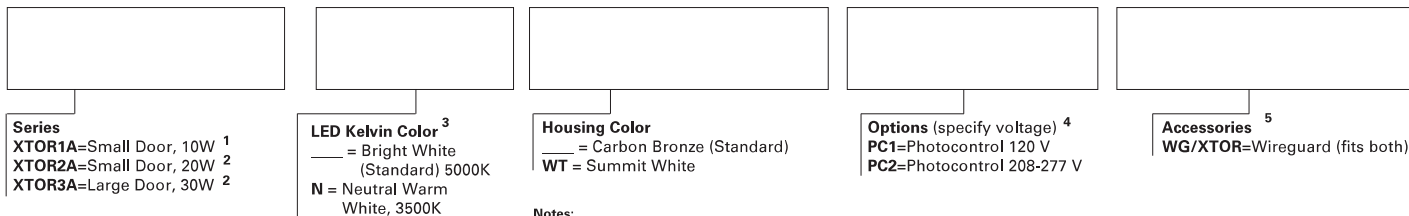
Effective Projected Area:
(Sq. Ft.)
XTOR1A/XTOR2A=0,34
XTOR3A = 0,45

SHIPPING DATA:

Approximate Net Weight:
3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]

ORDERING INFORMATION

SAMPLE NUMBER: XTOR2A-N-WT-PC1



Series
XTOR1A=Small Door, 10W ¹
XTOR2A=Small Door, 20W ²
XTOR3A=Large Door, 30W ²

LED Kelvin Color ³
 ___ = Bright White
 (Standard) 5000K
N = Neutral Warm
 White, 3500K

Housing Color
 ___ = Carbon Bronze (Standard)
WT = Summit White

Options (specify voltage) ⁴
PC1=Photocontrol 120 V
PC2=Photocontrol 208-277 V

Accessories ⁵
WG/XTOR=Wireguard (fits both)

Notes:

- 1 120V only XTOR1A not available in 3500K.
- 2 Design Lights Consortium™ qualified (down mount only).
Consult Design Lights Consortium website for all applications.
- 3 PC2 only available in 20W and 30W models.
- 4 PC1 and PC2 photo controls are factory installed. PC2 not available on XTOR1A models.
- 5 Order WG/XTOR wire guard separately.

STOCK ORDERING INFORMATION

10W Series	20W Series	30W Series
XTOR1A = 10W, 5000K, Carbon Bronze	XTOR2A = 20W, 5000K, Carbon Bronze	XTOR3A = 30W, 5000K, Carbon Bronze
XTOR1A-WT = 10W, 5000K, Summit White	XTOR2A-N = 20W, 3500K, Carbon Bronze	XTOR3A-N = 30W, 3500K, Carbon Bronze
XTOR1A-PC1 = 10W, 5000K, 120V PC, Carbon Bronze	XTOR2A-WT = 20W, Summit White	XTOR3A-WT = 30W, Summit White
	XTOR2A-PC1 = 20W, 120V PC, Carbon Bronze	XTOR3A-PC1 = 30W, 120V PC, Carbon Bronze



5-DAY QUICK SHIP ORDERING INFORMATION

10W Series	20W Series	30W Series
XTOR1A-WT-PC1 = 10W, 5000K, Summit White, 120V PC	XTOR2A-PC2 = 20W, 5000K, 208-277V PC, Carbon Bronze	XTOR3A-PC2 = 30W, 5000K, 208-277V PC, Carbon Bronze
	XTOR2A-WT-PC1 = 20W, 5000K, Summit White, 120V PC	XTOR3A-WT-PC1 = 30W, 5000K, Summit White, 120V PC
	XTOR2A-WT-PC2 = 20W, 5000K, Summit White, 208-277V PC	XTOR3A-WT-PC2 = 30W, 5000K, Summit White, 208-277V PC
	XTOR2A-N-WT = 20W, 3500K, Summit White	XTOR3A-N-WT = 30W, 3500K, Summit White
	XTOR2A-N-PC1 = 20W, 3500K, 120V PC, Carbon Bronze	XTOR3A-N-PC1 = 30W, 3500K, 120V PC, Carbon Bronze
	XTOR2A-N-PC2 = 20W, 3500K, 208-277V PC, Carbon Bronze	XTOR3A-N-PC2 = 30W, 3500K, 208-277V PC, Carbon Bronze
	XTOR2A-N-WT-PC1 = 20W, 3500K, Summit White, 120V PC	XTOR3A-N-WT-PC1 = 30W, 3500K, Summit White, 120V PC
	XTOR2A-N-WT-PC2 = 20W, 3500K, Summit White, 208-277V PC	XTOR3A-N-WT-PC2 = 30W, 3500K, Summit White, 208-277V PC

LUMENS - CRI / CCT TABLE

LED Information	XTOR1A	XTOR2A	XTOR2A-N	XTOR3A	XTOR3A-N
Delivered Lumens	719	1361	947	2243	1600
CCT (Kelvin)	5000	5000	3500	5000	3500
Color Rendering Index (CRI)	68	67	86	69	84

CURRENT DRAW

	XTOR1A	XTOR2A	XTOR3A
120V	.13A	0.2A	0.3A
208V	--	0.1A	0.15A
240V	--	0.15A	0.15A
277V	--	0.15A	0.15A

DESCRIPTION

Westwood 715 and 715-2 are ultra-compact wall fixtures for use with PAR30 metal halide lamps. Both models are provided with a remote ballast/housing assembly and are suitable for use with 120, 208, 240, 277 or 347V line voltage (specify). Model 715 provides downlight or uplight by way of the 180° rotational fixture head. Model 715-2 provides combination uplight and downlight. Various lenses, louvers and color or dichroic filters can be combined - up to three at once - to create multiple lighting effects. Lumière's exclusive Siphon Protection System (S.P.S.) prevents water from siphoning into the fixture through its own lead wires.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

A ... Material

Housing and hood are precision-machined from corrosion-resistant 6061-T6 aluminum billet. Mounting canopy is constructed from corrosion-resistant silicone aluminum.

B ... Finish

Fixtures are double protected by a chromate conversion undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

C ... Hood

Hood is removable for easy relamping and accepts up to three internal accessories at once (lenses, louvers, filters) to achieve multiple lighting effects. The flush lens design sheds water and minimizes debris collection on the uplight position.

D ... Gasket

Housing and hood are sealed with a high temperature silicone o-ring gasket to prevent water intrusion.

E ... Lens

Tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock.

F ... Mounting & Adjustability

Both models mount over a standard 4" J-box and connect to a remote metal halide ballast/housing assembly (provided). Model 715 provides downlight or uplight by way of the 180° rotational fixture head. Model 715-2 provides combination uplight and downlight. Lumière's exclusive Siphon Protection System (S.P.S.) prevents water from siphoning into the fixture through its own lead wires.

G ... Hardware

Stainless steel hardware is standard to provide maximum corrosion-resistance.

H ... Socket

Ceramic socket with 250° C Teflon® coated lead wires and medium base.

I ... Ballast

Remote core & coil ballast is standard (120/208/240/277/347V). Maximum remote mounting distance for a core & coil ballast is 50'. Remote electronic ballast (120/277V) is available as an option by adding the prefix "EL" to the ballast/mounting code. Maximum remote mounting distance for an electronic ballast depends upon the ballast manufacturer and may require the use of special low capacitance wire, separate conduit runs for lead wires, or other special installation requirements. See ballast manufacturer's installation instructions or contact the factory for remote mounting distance and installation requirements.

J ... Lamp

Not included. Available from Lumière as an accessory - see reverse side of this page.

K ... Labels & Approvals

UL and cUL listed, standard wet label. IP65 rated. Manufactured to ISO 9001-2000 Quality Systems Standard. IBEW union made.

L ... Warranty

Lumière warrants its fixtures against defects in materials & workmanship for three (3) years. Auxiliary equipment such as transformers, ballasts and lamps carry the original manufacturer's warranty.



WESTWOOD

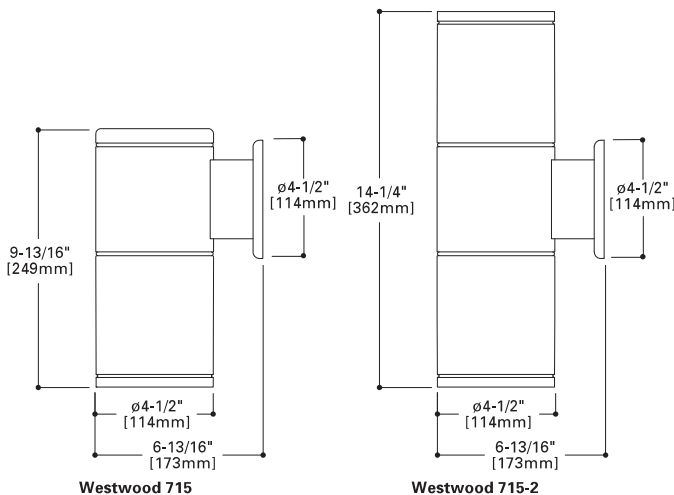
715

715-2

70W (max.) PAR30

Metal Halide

IP65



Westwood 715/715-2
Lamp=
CDM70PAR30L/M/SP
(M98)
CBCP=48,000

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
25'0"	77	4'0"
20'0"	120	3'6"
15'0"	213	2'6"
12'0"	333	2'0"
10'0"	480	1'6"
8'0"	749	1'6"



Westwood 715/715-2
Lamp=
CDM70PAR30L/M/FL
(M98)
CBCP=7000

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
25'0"	11	19'0"
20'0"	18	15'0"
15'0"	31	11'6"
12'0"	49	9'0"
10'0"	70	7'6"
8'0"	110	6'0"



Westwood 715/715-2
Lamp=
CDM39PAR30L/SP
(M130KL-39)
CBCP=42,000

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
25'0"	67	4'0"
20'0"	105	3'6"
15'0"	187	2'6"
12'0"	292	2'0"
10'0"	420	1'6"
8'0"	657	1'6"



Westwood 715/715-2
Lamp=
CDM39PAR30L/FL
(M130KL-39)
CBCP=6500

Cone of Light		
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
25'0"	10	12'6"
20'0"	16	10'0"
15'0"	29	7'6"
12'0"	45	6'0"
10'0"	65	5'0"
8'0"	101	4'0"



LAMP INFORMATION

Lamp	ANSI Code	Watts	Beam Spread	CBCP	°K	Life (hrs.)	Base	Volts
CDM70PAR30L/M/SP	M98	70	10°	48,000	3000	6000	medium	120-347
CDM70PAR30L/M/FL	M98	70	30°	7000	3000	6000	medium	120-347
CDM39PAR30L/SP	M130KL-39	39	10°	42,000	3000	9000	medium	120-347
CDM39PAR30L/FL	M130KL-39	39	30°	6500	3000	9000	medium	120-347

NOTE: Inferior quality lamps may adversely affect the performance of this product. Use only name brand lamps from reputable lamp manufacturers.

NOTES AND FORMULAS

- Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.
- Footcandle values are initial. Apply appropriate light loss factors where necessary.
- Bare lamp data shown. Consult lamp manufacturers to obtain detailed specifications for their lamps.

ORDERING INFORMATION

Series 715=PAR30 Metal Halide Up/Down Westwood Wall Fixture	Source Metal Halide MH39PAR30=39W Metal Halide PAR30, Medium Base MH70PAR30=70W Metal Halide PAR30, Medium Base	Voltage 120=120V 277=277V 208=208V 240=240V 347=347V	Finish Painted BK=Black BZ=Bronze CS=City Silver VE=Verde WT=White	Accessories Filters F71-30= Peach Dichroic Filter, 3.95" Dia F72-30= Amber Dichroic Filter, 3.95" Dia F73-30= Green Dichroic Filter, 3.95" Dia F74-30= Medium Blue Dichroic Filter, 3.95" Dia F75-30= Yellow Dichroic Filter, 3.95" Dia F76-30= Red Dichroic Filter, 3.95" Dia F77-30= Dark Blue Dichroic Filter, 3.95" Dia F78-30= Light Blue Dichroic Filter, 3.95" Dia F79-30= Neutral Density Dichroic Filter, 3.95" Dia F80-30= Magenta Dichroic Filter, 3.95" Dia F22-30= Red Color Filter, 3.95" Dia F33-30= Blue Color Filter, 3.95" Dia F44-30= Green Color Filter, 3.95" Dia F55-30= Yellow Color Filter, 3.95" Dia F66-30= Mercury Vapor Color Filter, 3.95" Dia Optical Lenses LSL-30= Linear Spread Lens (elongate standard beam spread), 3.95" Dia OSL-30= Overall Spread Lens (increase beam spread), 3.95" Dia DIF-30= Diffused Lens (provide even illumination), 3.95" Dia Optical Louver LVR-30= Hex Cell Louver (reduce glare), 3.95" Dia Lamps MHP3070-SP= 70W PAR30 Metal Halide Spot MHP3070-FL= 70W PAR30 Metal Halide Flood
Lamp Head Quantity _ = One Lamp Head ¹ 2 = Two Lamp Heads ²				

Notes: 1 Includes one remote HID ballast and housing (WR style).
2 Includes two remote HID ballasts and housings (WR style).
* Lamp not included.
* Consult your Cooper Lighting representative for additional options and finishes.

BUILDING INFORMATION

GENERAL PROJECT NOTES

SQUARE FOOTAGE (ACREAGE) OF THE SITE:
29,844 SQUARE FEET (.69 ACRES)

BUILDING FOOTPRINT: 14,705 sf

SQUARE FOOTAGE BY USE:

Use	Square Foot
1) Enclosed Parking (S-2)	29,340 gsf
2) Apartment Units (R-2)	58,472 gsf

BUILDING SUMMARY

BUILDING TYPE: Apartment House
 OCCUPANCY CLASSIFICATION: R-2 over S-2;
 CONSTRUCTION TYPE: R-2 in TYPE 5-A over S-2 that is TYPE 1-B

SPRINKLERED: YES

MAXIMUM ALLOWABLE AREA: 36,000 SF/FLOOR

MAXIMUM ALLOWABLE STORES: 4 stories of R-2 over S-2 up to a maximum height of 60'; section 509.4 (SPS 360-366 Wisconsin Commercial Building Code; IBC 2009)

TOTAL OCCUPANCY LOAD:
 R-2 (residential) = 293 (58,472 gsf/200gsf per occupant)
 Exercise/ Community Room = 43 (635 gsf/15 nsf per occupant)
 Parking Garage = 147 (29,340 gsf/200gsf per occupant)
 Total = 483 total occupants

BUILDING TOTALS

- Basement Level (Parking) GSF = 14,635
- Grade Level (Parking) GSF = 14,705
- Second Level (Apartments) GSF = 14,033
- Third Level (Apartments) GSF = 14,028
- Fourth Level (Apartments) GSF = 14,028
- Fifth Level (Apartments) GSF = 14,183
- Total Building GSF = 897,812
- Total Residential NSF = 51,002

TOTAL PARKING COUNTS

- Grade Level Parking	= 34 (2 Accessible stalls, 1 of which is van accessible)
- Basement Level Parking	= 38 (1 Accessible stall)
- Total Parking Spaces	= 72
- Total Apartment units	= 60
- Parking Stalls/Apartment unit	= 1.2 stalls/unit

TOTAL BIKE PARKING

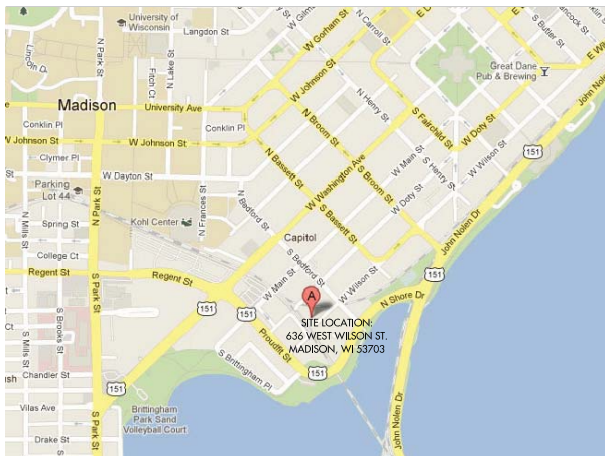
- Grade Level Interior Bike Parking (residential)	= 48
- Basement Level Interior Bike Parking (residential)	= 38
- Total Interior Bike Parking (residential)	= 86
- Grade Level Outdoor Bike Parking (visitor)	= 4
- Total On-Site Bike Parking	= 90



640 WEST APARTMENTS
 640 West Wilson St.
 Madison, WI 53703

IT McGraw, LLC
 Lenora McGraw
 3849 Conroy Rd.
 Verona, WI 53593
 Project No: 112157.00

EXISTING SITE LOCATION AND PHOTOGRAPHS



Issued for:
 No. Description Date
 01 City of Madison Submit 02-08-2012

URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
 SUBMITTED FEBRUARY 8, 2012 FOR:
 FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
 APRIL 9, 2012 PLAN COMMISSION MEETING
NOT FOR CONSTRUCTION

Drawn by: mds
 Checked by: MDS
 File: 2157CitySubmital-SheetLayouts.dwg

Building Information
 and Existing Conditions

A001

640 WEST APARTMENTS
640 West Wilson St.
Madison, WI 53703

17 McGraw, LLC
Lance McGraw
3849 Conroy Rd.
Waukesha, WI 53153
Project No. 112157.00

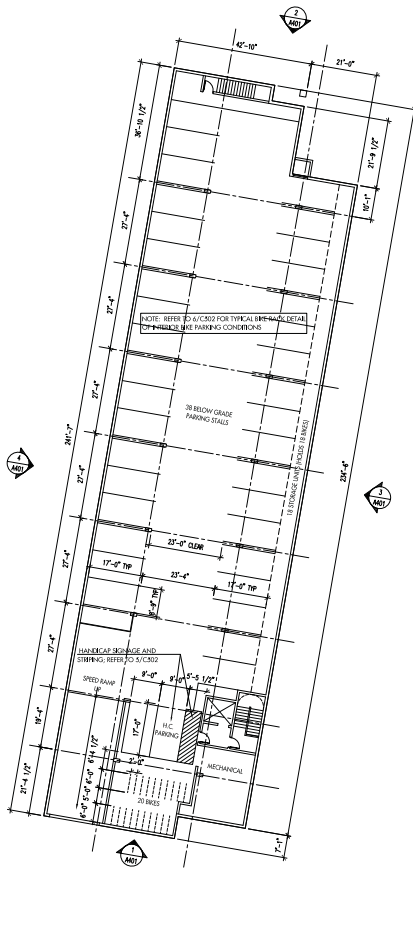
No.	Description	Date
01	City of Madison Submit	02-08-2012

URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
SUBMITTED FEBRUARY 8, 2012 FOR:
FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
APRIL 9, 2012 PLAN COMMISSION MEETING
NOT FOR CONSTRUCTION

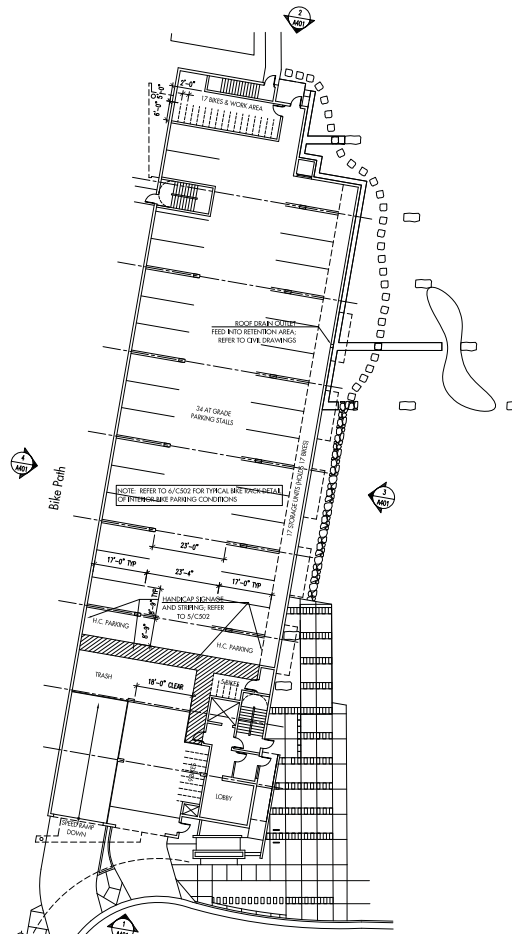
Drawn by: mds
Checked by: MDS
File: 2157CitySubmital-SheetLayouts.dwg

Basement, Grade, and Second Level Plans

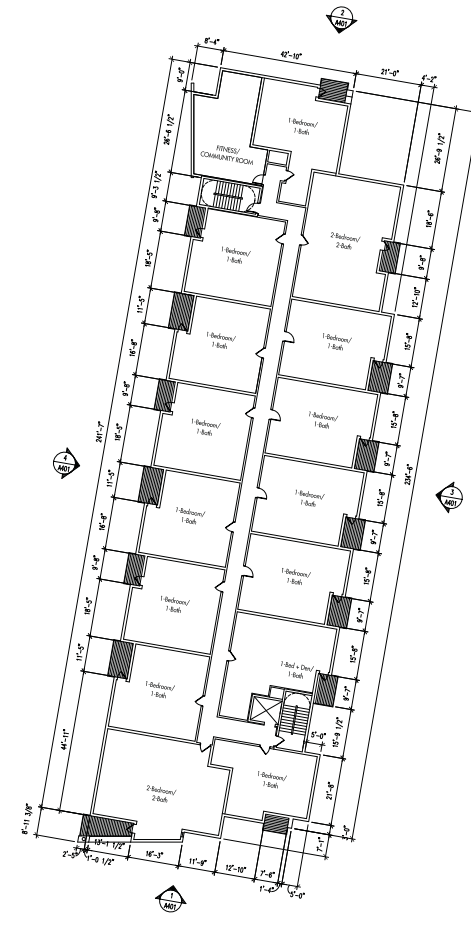
A101



1001 BASEMENT LEVEL FLOOR PLAN
SCALE: 1/16"=1'-0"



1002 GRADE LEVEL FLOOR PLAN
SCALE: 1/16"=1'-0"



1003 SECOND LEVEL FLOOR PLAN
SCALE: 1/16"=1'-0"

640 WEST APARTMENTS
640 West Wilson St.
Madison, WI 53703

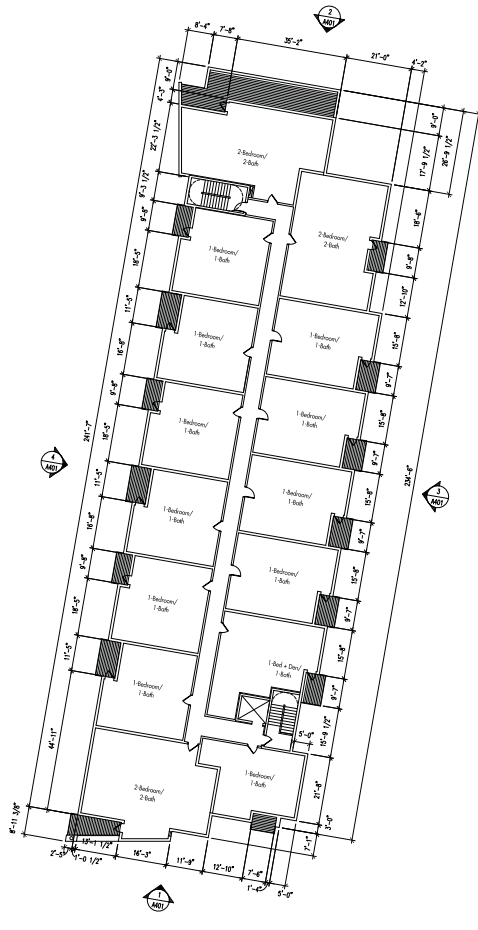
17 McGroff, LLC
Lance McGroff
3849 Conroy Rd.
Viroqua, WI 53593
Project No. 112157.00

Issued For	No.	Description	Date
City of Madison Submit	01		02-08-2012

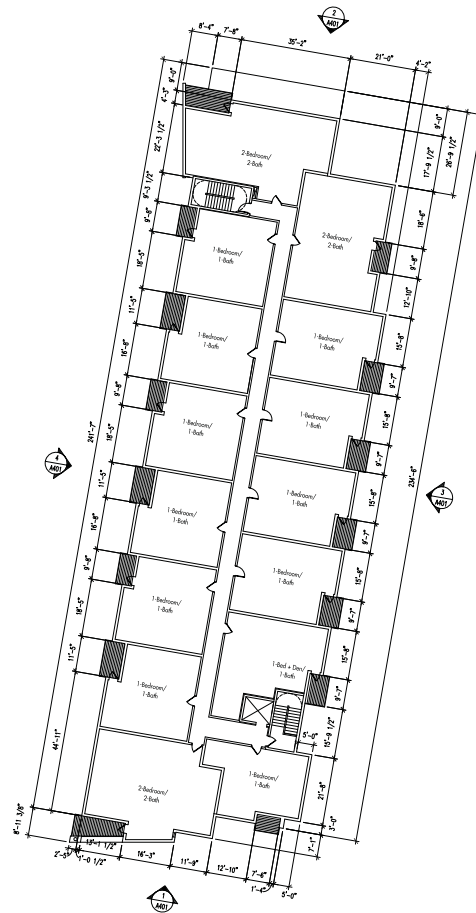
URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
SUBMITTED FEBRUARY 8, 2012 FOR:
FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
APRIL 9, 2012 PLAN COMMISSION MEETING
NOT FOR CONSTRUCTION

Drawn by: mds
Checked by: MDS
File: 2157CitySubmital-SheetLayouts.dwg

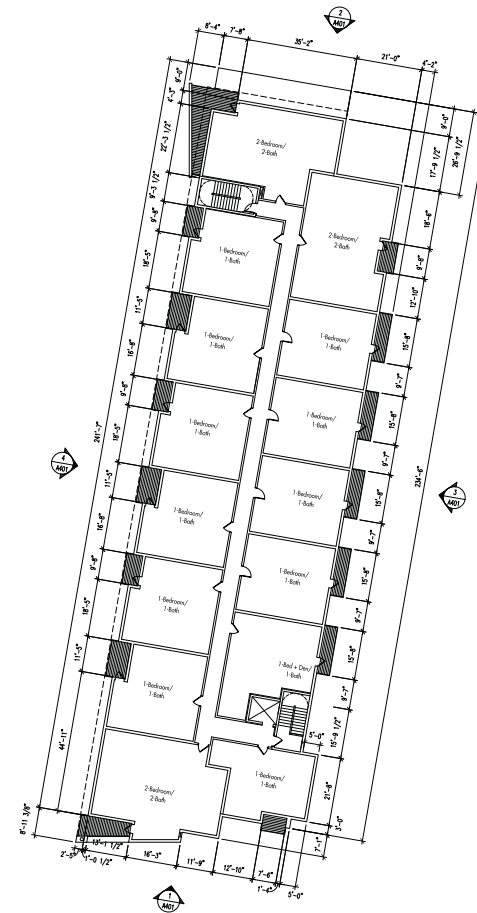
Third - Fifth Level Plans



1 THIRD LEVEL FLOOR PLAN
SCALE: 1/16"=1'-0"



2 FOURTH LEVEL FLOOR PLAN
SCALE: 1/16"=1'-0"



3 FIFTH LEVEL FLOOR PLAN
SCALE: 1/16"=1'-0"

ELEVATION KEYED NOTES:

- 1 MASONRY VENEER
- 2 6" SMOOTH FACED CONCRETE LAP BOARD SING - CHARCOAL COLOR
- 3 1.5" VERTICAL STANDING SEAM METAL PANEL - "SOLULINE" FINISH
- 4 1.25" DEEP METAL WALL PANEL - BURNT ORANGE COLOR
- 5 VINYL WINDOWS
- 6 TYPICAL DECK CONSTRUCTION:
PRE-FINISHED ALUMINUM GUARD RAIL SYSTEM FACE MOUNTED TO TREATED WOOD DECK STRUCTURE WITH COMPOSITE FLOOR DECKING
- 7 INSULATED PRE-FINISHED ALUMINUM DOORS WITH FULL INSULATED LITES
- 8 1/4" ALUMINUM LETTERS ON 3" STAND-OFFS WITH INTEGRATED BACKLIGHT
- 9 ALUMINUM SECTIONAL OVERHEAD DOORS WITH TRANSLUCENT PANEL LITES
- 10 INSULATED PRE-FINISHED ALUMINUM WINDOWS
- 11 PAINTED STEEL COLUMN
- 12 4" ALUMINUM LETTERS ON 3" STAND-OFFS WITH INTEGRATED BACKLIGHT
- 13 BUILDING EXTERIOR LIGHTING, WILL ALSO HAVE SMALL EXTERIOR LIGHT AT EACH BALCONY
- 14 PAINTED INSULATED HOLLOW METAL DOOR AND FRAME
- 15 ALUMINUM LOUVER
- 16 1.5" VERTICAL STANDING SEAM METAL PANEL - "SOLULINE" FINISH ON ELEVATOR OVER-RUN
- 17 8" ALUMINUM NUMBERS ON 1/2" STAND-OFFS
- 18 ROOF DRAIN OUTLET TO FEED INTO RETENTION AREA, REFER TO CIVIL DRAWINGS



SOUTH ELEVATION
SCALE: 1/8"=1'-0"



NORTH ELEVATION
SCALE: 1/8"=1'-0"



EAST ELEVATION
SCALE: 1/8"=1'-0"



WEST ELEVATION
SCALE: 1/8"=1'-0"

Engberg Anderson
MILWAUKEE • MADISON • TUCSON

SAA DESIGN GROUP

640 WEST APARTMENTS
640 West Wilson St.
Madison, WI 53703

IT McGroff, LLC
Lana McGroff
3849 Center Rd
Wausau, WI 53393
Project No. 112157.00

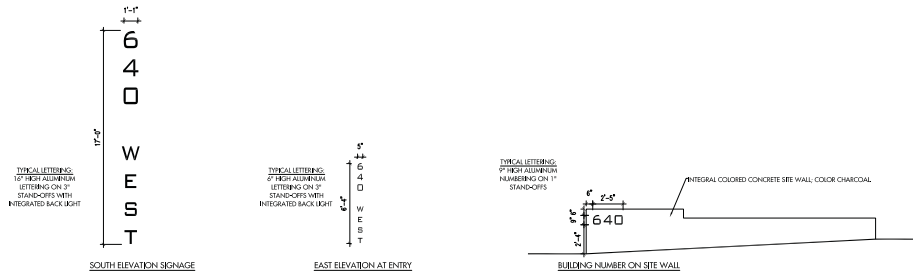
Level For: _____
No. _____ Description _____ Date _____
01 City of Madison Submit 02-08-2012

URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
SUBMITTED FEBRUARY 8, 2012 FOR:
FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
APRIL 9, 2012 PLAN COMMISSION MEETING

NOT FOR CONSTRUCTION

Drawn by: mds
Checked by: MDS
File: 2157CitySubmital-SheetLayouts.dwg

Building Elevations



BUILDING SIGNAGE DIAGRAMS
SCALE: 1/4" = 1'-0"



VIEW FROM SOUTH ALONG BIKE BATH
SCALE: NONE



VIEW FROM NORTH ALONG BIKE BATH
SCALE: NONE



VIEW FROM END OF DOTY STREET
SCALE: NONE



VIEW OF ENTRY FROM WEST WILSON STREET
SCALE: NONE

Level No.	Description	Date
01	City of Madison Submittal	02-08-2012

URBAN DESIGN COMMISSION/PLAN COMMISSION SUBMITTAL
SUBMITTED FEBRUARY 8, 2012 FOR:
FEBRUARY 15, 2012 URBAN DESIGN COMMISSION INITIAL/FINAL APPROVAL MEETING
APRIL 9, 2012 PLAN COMMISSION MEETING
NOT FOR CONSTRUCTION

Drawn by: mds
Checked by: MDS
File: 2157CitySubmittal-SheetLayouts.dwg

Signage Diagrams and Photo Montages