

**APPLICATION FOR
URBAN DESIGN COMMISSION
REVIEW AND APPROVAL**

AGENDA ITEM # _____

Project # _____

DATE SUBMITTED: <u>October 13, 2010</u>	Action Requested
UDC MEETING DATE: <u>October 20, 2010</u>	<input type="checkbox"/> Informational Presentation
	<input type="checkbox"/> Initial Approval and/or Recommendation
	<input checked="" type="checkbox"/> Final Approval and/or Recommendation

PROJECT ADDRESS: 9401 Mid Town Road

ALDERMANIC DISTRICT: Jed Sanborn- District #1

OWNER/DEVELOPER (Partners and/or Principals)

ARCHITECT/DESIGNER/OR AGENT:

Aspen Hill Apts, LLC/Tim McKenzie

Knothe & Bruce Architects, LLC

1902 Hawks Ridge Drive, Suite 322

7601 University Avenue, Suite 201

Verona, WI 53593

Middleton, Wisconsin 53562

CONTACT PERSON: J. Randy Bruce/Knothe & Bruce Architects, LLC

Address: 7601 University Avenue, Suite 201

Middleton, Wisconsin 53562

Phone: 608-836-3690

Fax: 608-836-6934

E-mail address: rbruce@knothebruce.com

TYPE OF PROJECT:

(See Section A For:)

- Planned Unit Development (PUD)
 - General Development Plan (GDP)
 - Specific Implementation Plan (SIP)
- Planned Community Development (PCD)
 - General Development Plan (GDP)
 - Specific Implementation Plan (SIP)
- Planned Residential Development (PRD)
- New Construction or Exterior Remodeling in an Urban Design District* (A public hearing is required as well as a fee)
- School, Public Building or Space (Fee may be required)
- New Construction or Addition to or Remodeling of a Retail, Hotel, or Motel Building Exceeding 50,000 Sq.Ft.
- Planned Commercial Site

(See Section B for:)

- New Construction or Exterior Remodeling in C4 District (Fee required)

(See Section C for:)

- R.P.S.M. Parking Variance (Fee required)

(See Section D for:)

- Comprehensive Design Review* (Fee required)
- Street Graphics Variance* (Fee Required)
- Other _____

*Public Hearing Required (Submission Deadline 3 Weeks in Advance of Meeting Date)

October 13, 2010

Mr. Brad Murphy
Director of Planning
Department of Planning & Development
City of Madison
215 Martin Luther King Jr. Blvd
P.O. Box 2985
Madison, WI 53701

Re: Letter of Intent
Conditional Use
9401 Mid Town Road
Lot 55 of the First Addition to Hawks Ridge Estates
Aspen Hill Apartments Phase II

Dear Mr. Murphy:

The following is submitted together with the plans, application and zoning text for staff, Plan Commission and Common Council consideration of approval.

Organizational structure:

Owner: Aspen Hill Apartments, LLC
1902 Hawks Ridge Drive Ste 322
Verona, WI 53593
608-848-0111
608-848-6013 fax
Contact: Tim McKenzie

Architect: Knothe & Bruce Architects, LLC
7601 University Avenue, Ste 201
Middleton, WI 53562
608-836-3690
608-836-6934 fax
Contact: Randy Bruce
rbruce@knothebruce.com

Engineer: D'Onofrio & Kottke
7530 Westward Way
Madison, WI 53717
(608) 833-7530
(608) 833-1089 fax
Contact: Ron Klaas
rklaas@donofrio.cc

Landscape Design: Watts Landscape Service, LLC
3570 Pioneer Road
Verona, WI 53593
(608) 833-3535
(608) 833-3534
Contact: Wayne Rayfield
watts@chorus.net

Introduction:

This development is located on the south side of Mid Town Road on Lot 55 of the First Addition to Hawks Ridge Estates subdivision plat. The site is designated for multifamily use and is currently being rezoned to R-5.

Site Planning & Building Architecture:

The site plan is designed to provide an integrated medium-density housing environment with a variety of rental apartments. Access to the site from Silverstone Lane and Hawkstone Way are designed with sidewalks, terraces, street lighting and street trees. Pedestrian sidewalks loop through the site connecting Midtown Road to Silverstone Lane and Hawkstone Way.

The two 4-unit apartments give a residential appearance to the development and provide a transition to the existing neighborhood to the south.

The three-story apartment buildings are located on the northern portion of the site along Midtown Road. These will have underground parking with additional surface parking provided in smaller surface parking areas. The community center and swimming pool are located in the Aspen Hill Phase I development just east of Lot 55.

There are a variety of building configurations, sizes and heights, which will create a rich and interesting environment. The building elements, materials and style will be a continuation of the existing Aspen Hills Phase I development.

Site Development Data:

Densities:

Lot Area	176,235 S.F. or 4.04 acres
Dwelling Units	64 units
Lot Area / D.U.	2,753 S.F./unit
Density	16 units/acre

Dwelling Unit Mix:

<u>Apartments</u>	<u>Bldg #1</u>	<u>Bldg #2</u>	<u>Bldg #3</u>	<u>Bldg #4</u>	<u>Total</u>
Efficiency	4	4	-	-	8
Studio + Loft	5	5	-	-	10
One Bedroom	7	7	-	-	14
<u>Two Bedroom</u>	<u>12</u>	<u>12</u>	<u>4</u>	<u>4</u>	<u>32</u>
Total	28	28	4	4	64

Building Height: 2-3 Stories (20'-35' high)

Letter of Intent – Conditional Use
9401 Mid Town Road
Lot 55 of the First Addition to Hawks Ridge Estates
Aspen Hill Apartments Phase II
October 13, 2010
Page 3 of 3

Floor Area Ratio:

Bldg #13	30,900 S.F.
Bldg #12	30,900 S.F.
Bldg #11	5,696 S.F.
<u>Bldg #10</u>	<u>5,696 S.F.</u>
Gross Floor Area (Excludes parking)	73,192 S.F.

Ratio 0.58

Vehicle Parking Stalls

Surface	60
Garage	16
<u>Underground</u>	<u>50</u>
Total	126
Ratio	1.96 stalls/unit

Bicycle parking Stalls

Surface	28
Garage	8
<u>Underground</u>	<u>22</u>
Total	58 (50 + .5(14) = 57 required)

Project Schedule:

This project will be a phased development with construction planned to start in fall of 2010. Construction will proceed as market conditions warrant with the entire project currently scheduled for completion in 2012.

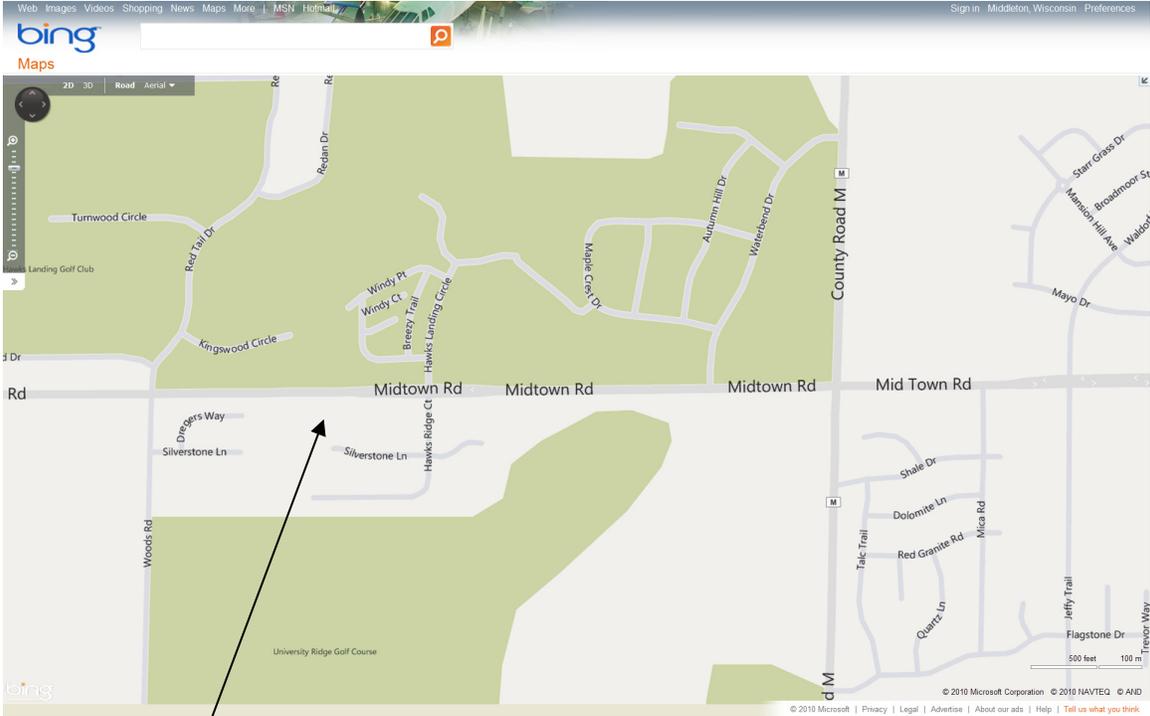
Social & Economic Impacts:

This development will have a positive social and economic impact.

Thank you for your time in reviewing our proposal.

Very Truly Yours,

J. Randy Bruce, AIA
Managing Member



Locator Map

9401 Mid Town Road

Lot 55 of the First Addition to Hawks Ridge Estates

Consultant

Notes

- A SIDE WALK WITH A PITCH GREATER THAN 1:20 IS A RAMP. THE MAXIMUM PITCH OF ANY RAMP OR WALK SHALL BE 1:12. RAMPES OVERCOMING MORE THAN 6" CHANGE IN ELEVATION TO HAVE HANDRAILS ON BOTH SIDES.
- ALL DRIVEWAYS, CURB ADJACENT TO DRIVEWAYS, AND SIDEWALK CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY, SHALL BE COMPLETED IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION BY A CONTRACTOR CURRENTLY LICENSED BY THE CITY.
- ALL NEW DRIVES TO BE CONSTRUCTED WITH CLASS III APPROACHES IN ACCORDANCE WITH MADISON GENERAL ORDINANCE SECTION 10.08(4)
- ALL TRASH AND RECYCLING TO BE COLLECTED IN TRASH ROOMS IN THE BUILDING BASEMENTS OR IN PRIVATE GARAGES.
- SEE SITE GRADING AND UTILITY PLANS FOR ADDITIONAL INFORMATION.
- ALL WORK IN THE RIGHT OF WAY SHALL BE PERFORMED BY A CITY OF MADISON LICENSED CONTRACTOR.
- BIKE STALLS TO BE IN ACCORDANCE TO MADISON GENERAL ORDINANCE 20.11, (SEE SUBSECTIONS (3)(e) AND (3)(h)(2a)).
- ALL CITY SIDEWALK, CURB AND BUTTER, WHICH IS DAMAGED DURING CONSTRUCTION OR THAT THE CITY ENGINEER DETERMINES TO BE NECESSARY SHALL BE REPLACED.
- ANY DAMAGE TO STREET PAVEMENT WILL REQUIRE RESTORATION IN ACCORDANCE WITH THE CITY'S PATCHING CRITERIA.
- SIGNAGE APPROVALS ARE NOT GRANTED BY THE PLAN COMMISSION. SIGNAGE MUST BE APPROVED BY THE URBAN DESIGN COMMISSION OR STAFF. SIGN PERMITS MUST BE ISSUED BY THE ZONING SECTION OF THE DEPARTMENT OF PLANNING AND COMMUNITY AND ECONOMIC DEVELOPMENT PRIOR TO SIGN INSTALLATIONS.

Revisions

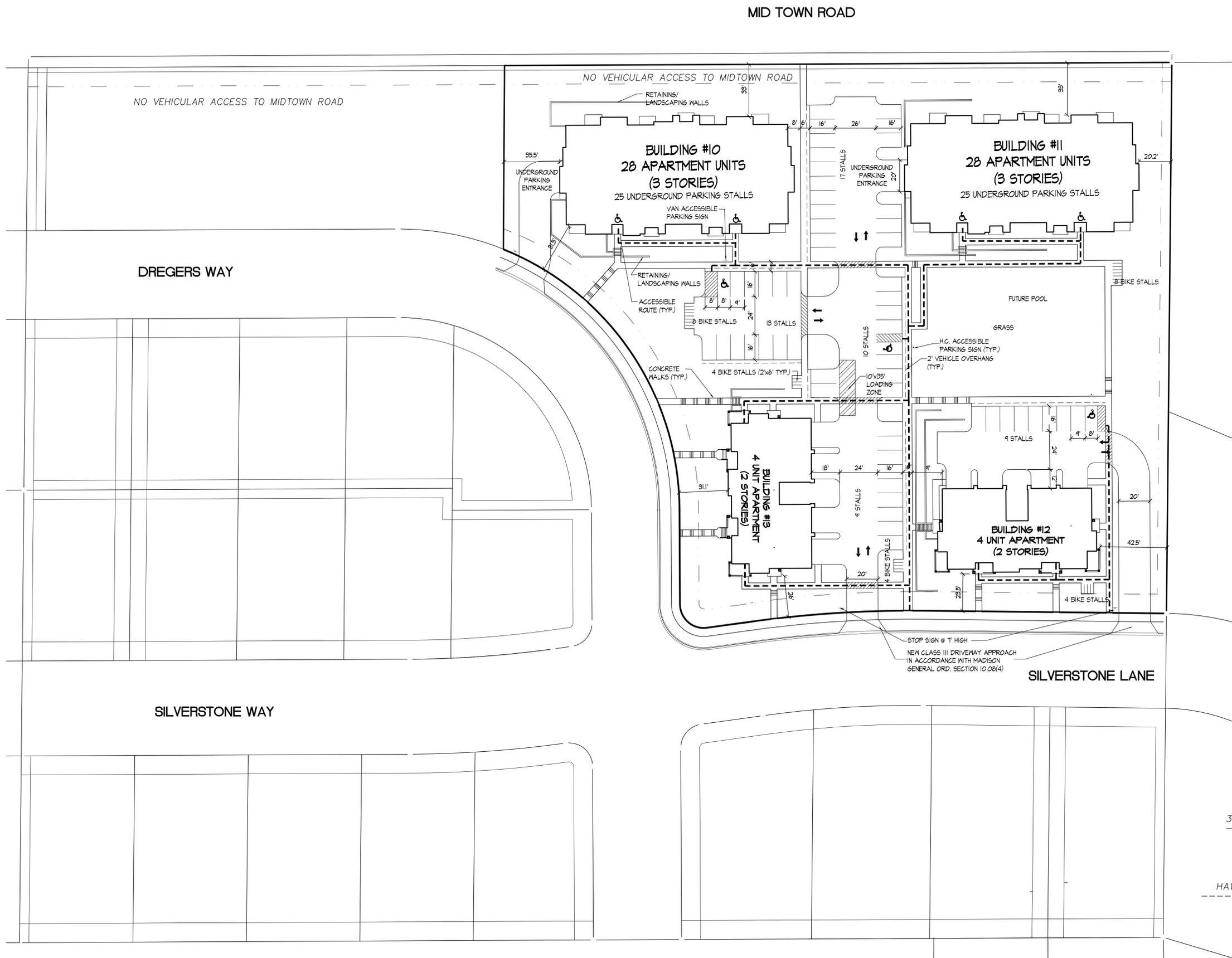
- September 15, 2010 - UDC Initial Submittal
 September 20, 2010 - Cond. Use Resubmittal
 October 13, 2010 - UDC Final Submittal

SHEET INDEX:

SITE	
C-1.1	SITE PLAN
C-1.2	SITE LIGHTING PLAN
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C-4.1	LANDSCAPE PLAN
ARCHITECTURAL	
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A-1.5	FLOOR PLANS - 4 UNIT
A-2.0	ELEVATIONS - 28 UNIT
A-2.1	ELEVATIONS - 28 UNIT
A-2.2	ELEVATIONS - 4 UNIT

SITE DEVELOPMENT STATISTICS

LOT AREA	126,235 S.F./2.89 ACRES
DWELLING UNITS	64 D.U.
LOT AREA/ D.U.	1,972.4 S.F./D.U.
DENSITY	22 UNITS/ACRE
BUILDING HEIGHT	2-3 STORIES
GROSS FLOOR AREA	73,142 S.F.
(excluding underground parking)	
FLOOR AREA RATIO	0.58
UNIT MIX	
EFFICIENCY	0
STUDIO W/ LOFT	10
ONE BEDROOM	14
TWO BEDROOM	32
TOTAL	64
VEHICLE PARKING	
SURFACE	60 (INCL. 3 VAN ACCESSIBLE)
GARAGE	16
UNDERGROUND	50 (INCL. 2 ACCESSIBLE)
TOTAL	126 (INCL. 5 ACCESSIBLE)
BIKE PARKING	
SURFACE	20
GARAGE	0
UNDERGROUND	22
TOTAL	50 (50 + 5(14)=57 REQUIRED)



Site Plan
 1" = 30'

Project Title

Aspen Hill Apartments Phase II
 9401 Mid Town Road
 Lot 55 of the First Addition
 to Hanks Ridge Estates

Drawing Title

Site Plan

Project No.

1020

Drawing No.

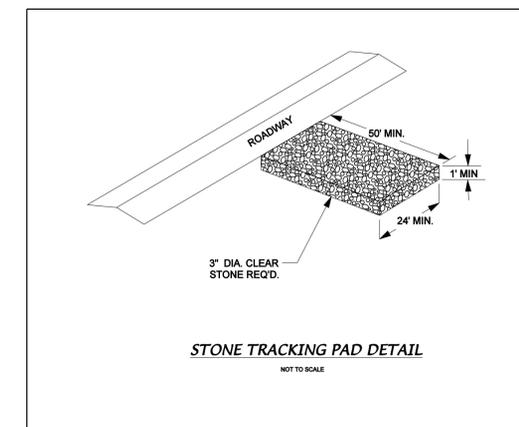
C-1.1

Consultant

D'ONFRIO KOTTKE AND ASSOCIATES, INC.

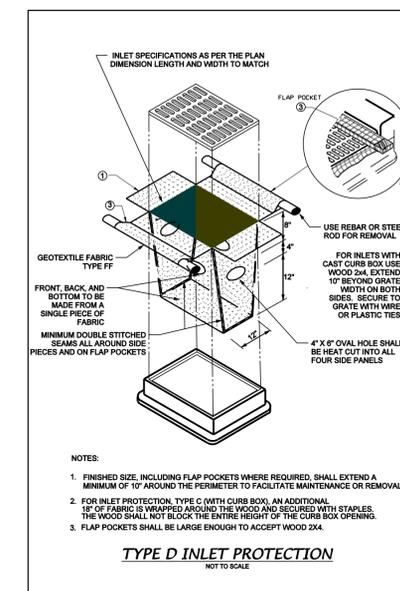
7530 Westward Way, Madison, WI 53717
Phone: 608.8 3.7530 • Fax: 608.833.1089
YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

FN: 10-03-101



STONE TRACKING PAD DETAIL

NOT TO SCALE

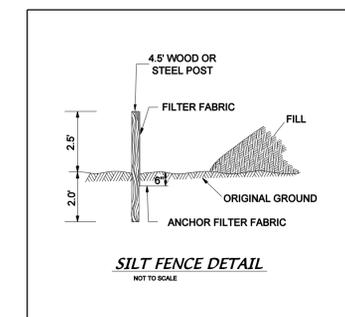


NOTES:

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10' AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 1/2" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

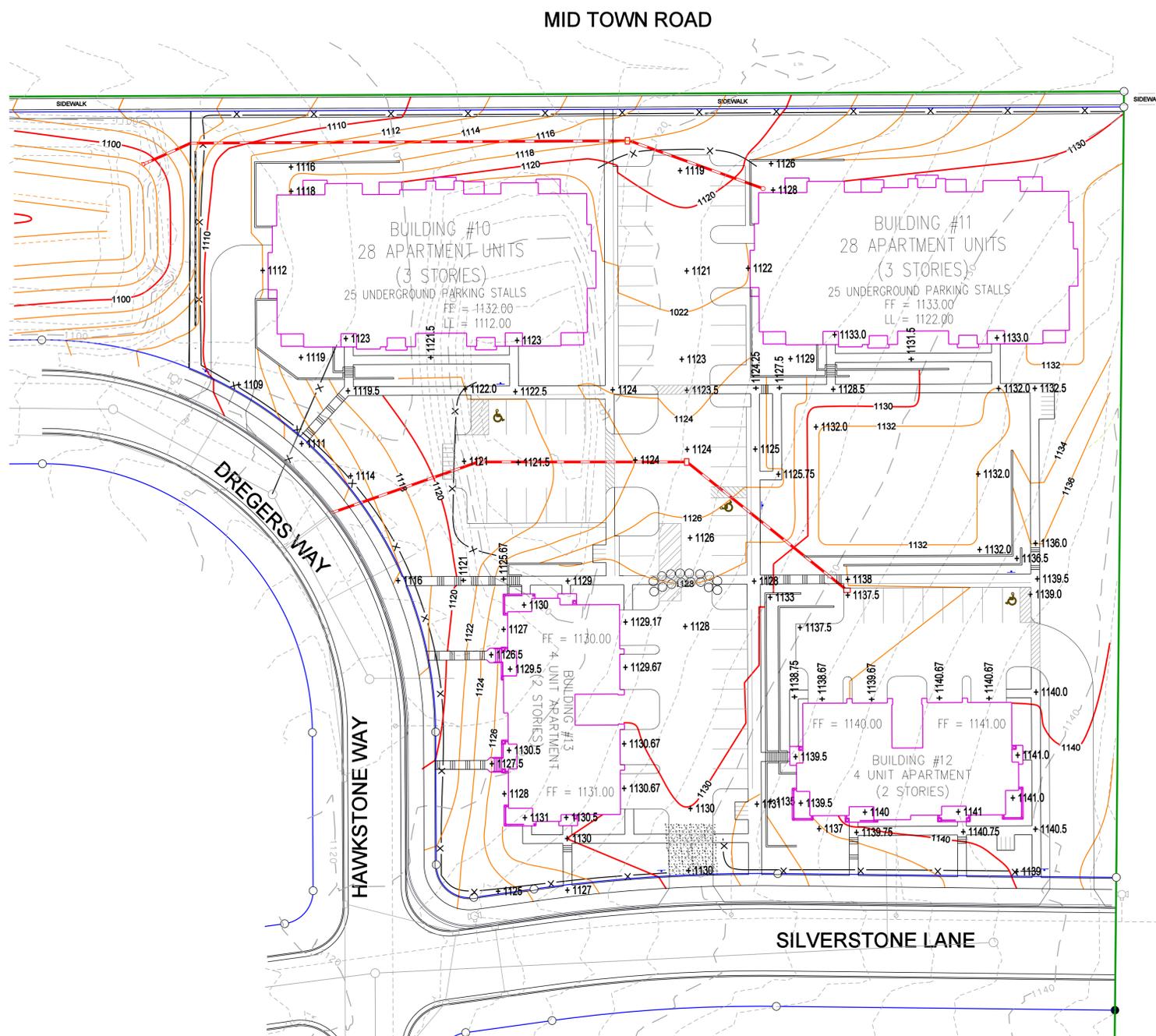
TYPE D INLET PROTECTION

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE



- LEGEND
- 232 EXISTING CONTOUR
 - PROPOSED STORM SEWER
 - SILT FENCE
 - CLEAR STONE VELOCITY CHECK
 - STONE TRACKING PAD
 - RETAINING WALL
 - +1140.0 PROPOSED SPOT ELEVATION



SCALE: 1" = 30'



DIGGERS HOTLINE

TOLL FREE 1-800-242-8511
MILWAUKEE AREA 414-259-1181
TDD 1-800-542-2289

STATE LAW REQUIRES YOU TO NOTIFY OWNERS AND OPERATORS OF TRANSDUCER FACTIES AT LEAST THREE WORKING DAYS BEFORE YOU DIG

SITE GRADING AND EROSION CONTROL NOTES

- 1) All site grading and erosion control shall conform with the "City of Madison Standard Specifications" and all addendums issued prior to the contract bid date.
- 2) Stone tracking pad shall be installed at the commencement of construction. Stone tracking pad shall be a minimum of 20 feet wide, 50 feet long and 1 foot thick, constructed with a minimum of 3" clear stone. Entrances shall be maintained in a condition which will prevent tracking of mud onto public right-of-way.
- 3) Silt fence shall be installed at the start of site grading and maintained until the site has been stabilized.
- 4) Area disturbed within any street right-of-way shall be restored with 4" topsoil, fertilizer, seed, and mulch.
- 5) Disturbed areas outside the street right-of-way shall be restored with topsoil, seed, fertilizer and mulch or in accordance with an approved landscape plan.
- 6) Public streets and adjacent parking lots shall be cleaned daily as necessary.
- 7) Erosion control shall be the responsibility of the Contractor until the site has been stabilized. Erosion measures as listed shall be the minimum measures that will be acceptable.
- 8) The Contractor shall install additional erosion measures as requested in writing by the project superintendent or the City of Madison within 24 hours of notification.
- 9) Containment berm shall be temporary seeded and mulched upon completion.
- 10) Type D inlet protection shall be installed as soon as the structure is set. Inlet filters shall be maintained by the contractor until the curb and gutter installation is complete.
- 11) Erosion mat shall be installed on all slopes 4:1 or steeper. Erosion mat shall be North American Green S75 or equivalent.

Revisions

Project Title
Aspen Hill Apartments
PH II

Lot #55
First Add. Hawks
Ridge Estates

Drawing Title
Site Grading and Erosion
Control Plan

Project No. Drawing No.

1020 C-2.1

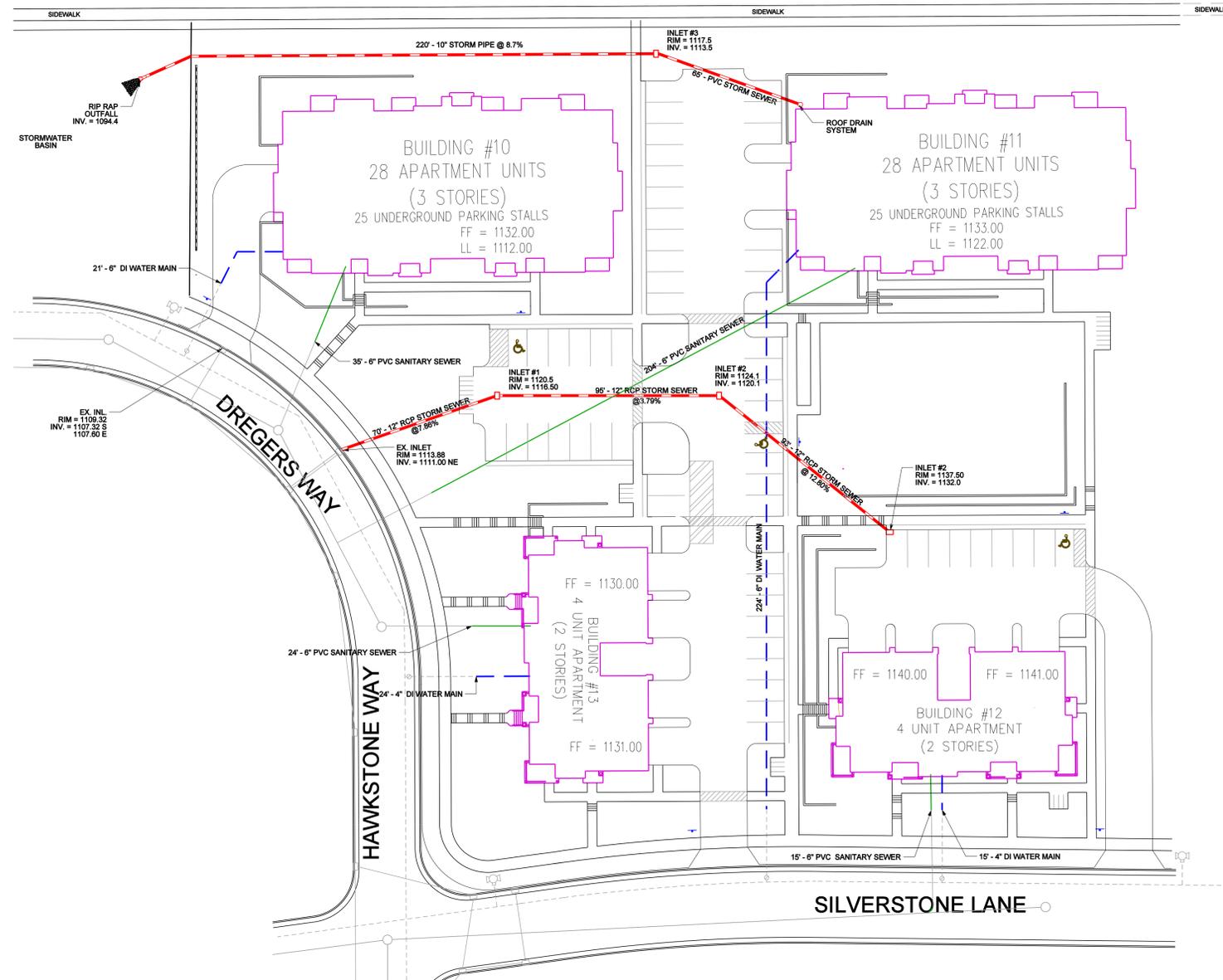
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D'ONOFRIO KOTTKE AND ASSOCIATES, INC

7530 Westward Way, Madison, WI 53717
Phone: 608.8 3.7530 • Fax: 608.833.1089
YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT
FN: 10-03-101

MID TOWN ROAD



LEGEND

	PROPOSED INLET
	PROPOSED STORM SEWER
	PROPOSED SANITARY SEWER
	PROPOSED WATER MAIN
	HYDRANT
	WATER VALVE

UTILITY NOTES:

- All site utilities shall conform to the City of Madison Standard Specifications for Public Works Construction, latest edition.
- Storm sewer shall be installed with water tight joints.
- Prior to connecting to existing storm sewer the contractor shall verify the existing inverts and notify project superintendent if discrepancies are found from plan grades.
- Contractor to coordinate with respective utility companies for gas, electric, telephone, cable relocations if necessary.
- Existing utility locations are based on information obtained in the field and from as-built plans. Information as shown on the drawings are no guarantee as to their exact location. The contractor shall make himself familiar with existing utilities in the area and be responsible for their protection during construction.
- All inlets, new or existing, that receive runoff as a result of the parking lot improvements, shall have a Kristar FloGard insert installed after construction is complete.
- Plumbing contractor to verify sizing of sanitary sewer and water services prior to installation.
- The Utility Contractor shall obtain a connection permit and excavation permit prior to commencing the storm sewer construction.

Revisions

Project Title
Aspen Hill Apartments
PH II

Lot #55
First Add. Hawks
Ridge Estates

Drawing Title

Site Utility Plan

Project No. Drawing No.

1020

C-2.2



SCALE: 1" = 30'



DIGGERS HOTLINE
TOLL FREE 1-800-242-8511
MILWAUKEE AREA 414-259-1181
TDD 1-800-542-2289
STATE LAW REQUIRES YOU TO NOTIFY OWNERS AND OPERATORS OF TRANSMISSION FACILITIES AT LEAST THREE WORKING DAYS BEFORE YOU DIG.

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Consultant

Notes

LIGHTING SCHEDULE								
Symbol	Label	Qty	Manufacturer	Catalog Number	Description	Lamp	File	Mounting
	A	7	RUUD LIGHTING	MAC410SBL	12" AREA CUTOFF / W/ BACK LIGHT SHIELD	100 WATT MH	MAC417SBLies	16'-0" POLE ON 2'-0" CONC. BASE
	B	2	RUUD LIGHTING	E8405-D	RECTANGULAR SECURITY / DEEP SHIELDED	50 WATT MH	E8507.JES	8'-0" UP ON SIDE OF BUILDING

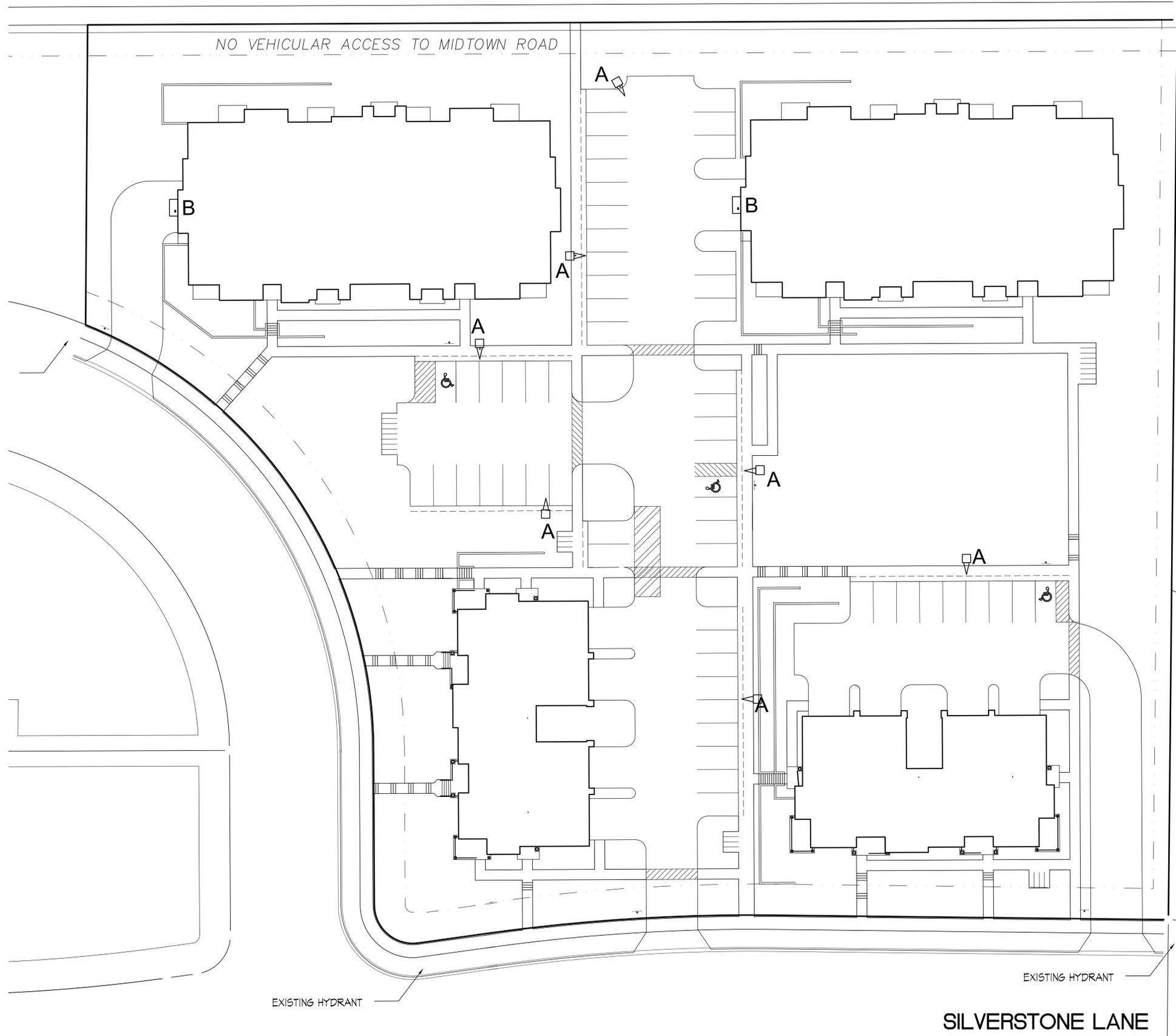
Revisions
September 8, 2010 - Conditional Use Submittal
Sept. 20, 2010 - Resubmit Conditional Use
October 13, 2010 - UDC Final Submittal

Project Title
Aspen Hill Apartments Phase II
9401 Mid Town Road
Lot 55 of the First Addition
to Hanks Ridge Estates

Drawing Title
Site Lighting Plan

Project No. **1020** Drawing No. **C-1.2**

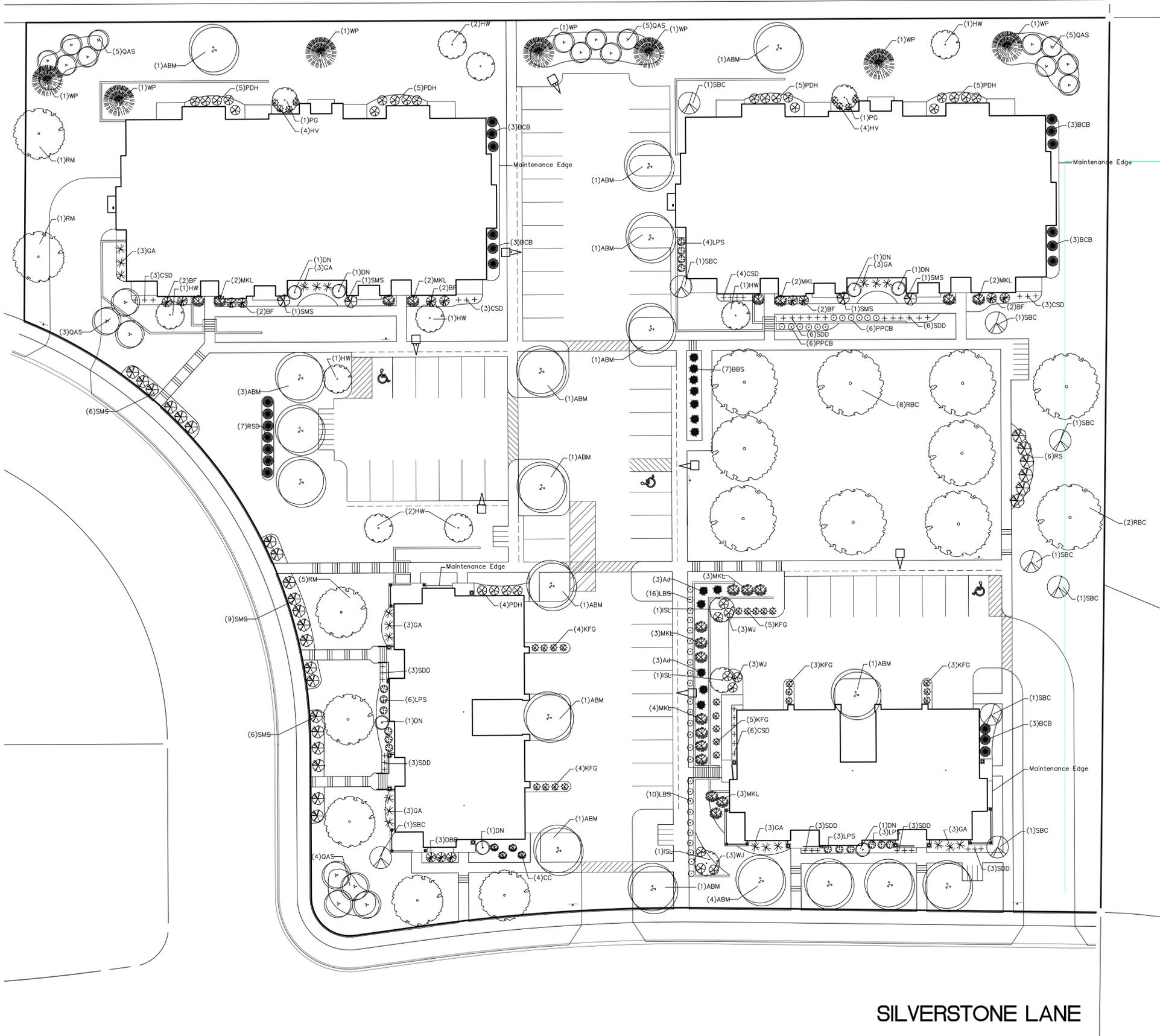
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 **Site Lighting Plan**
1" = 20'

Notes

1. ALL BEDS TO BE EDGED WITH BLACK ALUMINUM EDGING.
2. BEDS TO BE EITHER 2" NATIVE WASH STONE OR SHREDDED HARDWOOD MULCH OWNERS CHOICE.



Key			
Code	Number	Plant Common Name	Size
ABM	20	Autumn Blaze Maple	2"
HW	8	Hawthorne (Thornless)	1.5"
ISL	3	Ivory Silk Lilac	2"
PG	2	Pagoda Dogwood	4'
QAS	22	Quaking Aspen, Single	1.25"
RBC	10	River Birch Clump	8'
RM	7	Red Maple	2"
SBC	11	Serviceberry Clump	5'
WP	7	White Pine	4'
BCB	15	Black Chokeberry	#3
BF	10	Bronx Forsythia	15"
CC	4	Cranberry Cotoneaster	#3
DBB	3	Dwarf Burning Bush	2'
DN	7	Diablo Ninebark	2'
LPS	16	Little Princess Spirea	15"
MKL	21	Miss Kim Lilac	18"
PDH	24	Pink Diamond Hydrangea	18"
RS	6	Running Serviceberry	18"
RSD	7	Redstem Dogwood	2'
SMS	25	Snowmound Spirea	15"
AJ	6	Arcadia Juniper	#3
GA	21	Woodward Globe Arborvitae	30"
WJ	9	Wisconsin Juniper	#3
BBS	7	Big Bluestem	#1
KFG	25	Karl Forester Feather Reed Grass	#1
LBS	26	Little Blue Stem	#1
CSD	19	Chicago Sunrise Daylily	#1
HV	8	Gold Standard Hosta	#1
PPCB	12	Purple Palace Coralbells	#1
SDD	27	Stella D'Oro Daylily	#1

Revisions

UDC Final Submittal - October 13, 2010

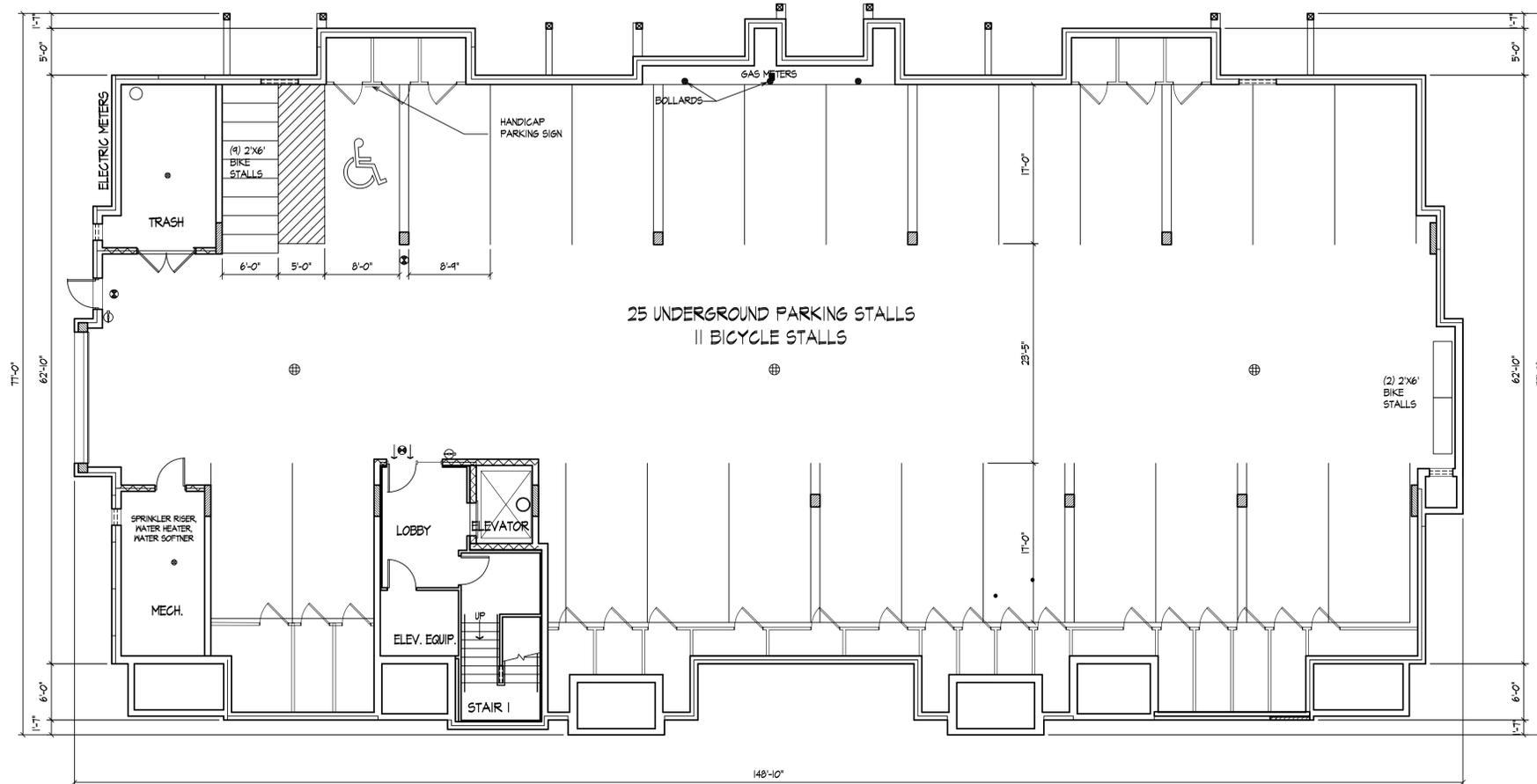
Project Title
Aspen Hill Apartments Phase II
9401 Mid Town Road
Lot 55 of the First Addition
to Hanks Ridge Estates

Drawing Title
Landscape Plan

Project No. Drawing No.

1020

C-4.1



BASEMENT FLOOR PLAN
1/8" = 1'-0"



Revisions
OCTOBER 13, 2010 - UDC FINAL SUBMITTAL

Project Title
**Aspen Hill Apartments
Phase II**
9401 Mid Town Road
Lot 55 of the First Addition
to Hawks Ridge Estates

Drawing Title
Basement Floor Plan
28 Unit Building

Project No. Drawing No.

1020 A-1.0

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FIRST FLOOR PLAN
1/8" = 1'-0"



Revisions
OCTOBER 13, 2010 - UDC FINAL SUBMITTAL

Project Title
**Aspen Hill Apartments
Phase II**
9401 Mid Town Road
Lot 55 of the First Addition
to Hanks Ridge Estates

Drawing Title
First Floor Plan
28 Unit Building

Project No. Drawing No.

1020

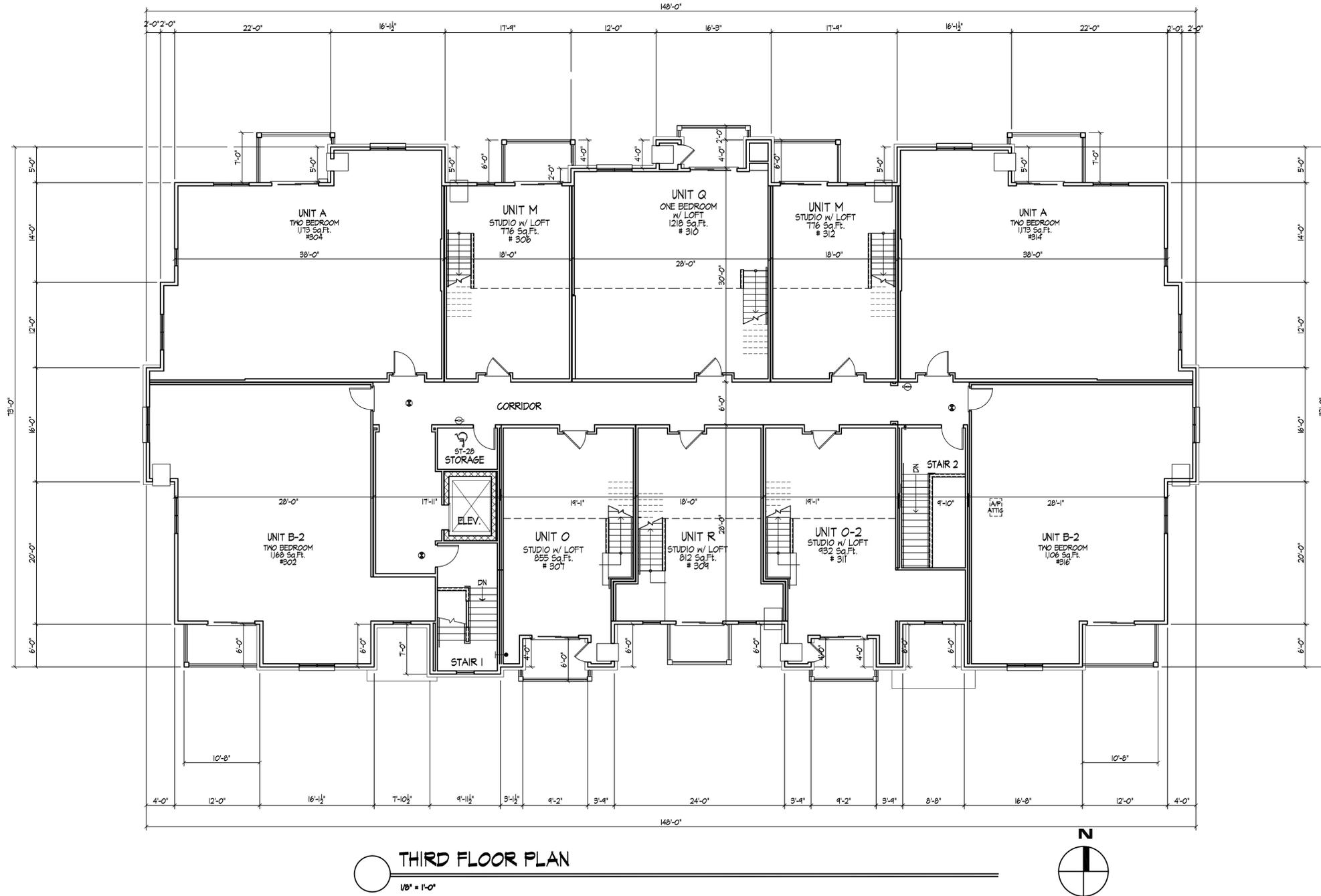
A-1.1



SECOND FLOOR PLAN

1/8" = 1'-0"





Revisions
OCTOBER 13, 2010 - UDC FINAL SUBMITTAL

Project Title
**Aspen Hill Apartments
Phase II**
9401 Mid Town Road
Lot 55 of the First Addition
to Hawks Ridge Estates

Drawing Title
Third Floor Plan
28 Unit Building

Project No. Drawing No.

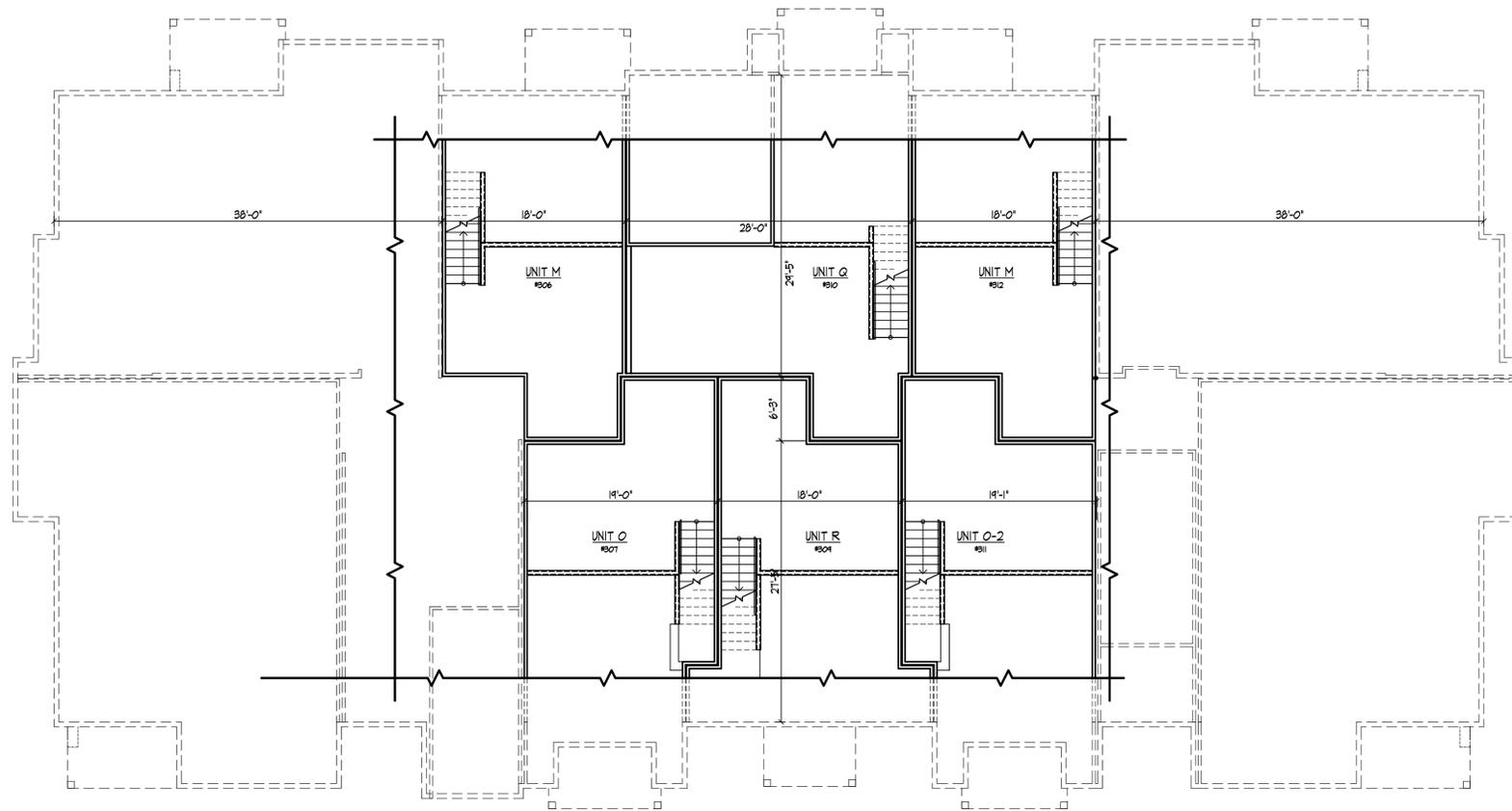
1020

A-1.3

Consultant

Notes

1. SEE SHEET A-1.1 FOR TYPICAL NOTES



LOFT FLOOR PLAN
1/8" = 1'-0"



Revisions

OCTOBER 13, 2010 - UDC FINAL SUBMITTAL

Project Title

Aspen Hill Apartments
Phase II

9401 Mid Town Road
Lot 55 of the First Addition
to Hawks Ridge Estates

Drawing Title

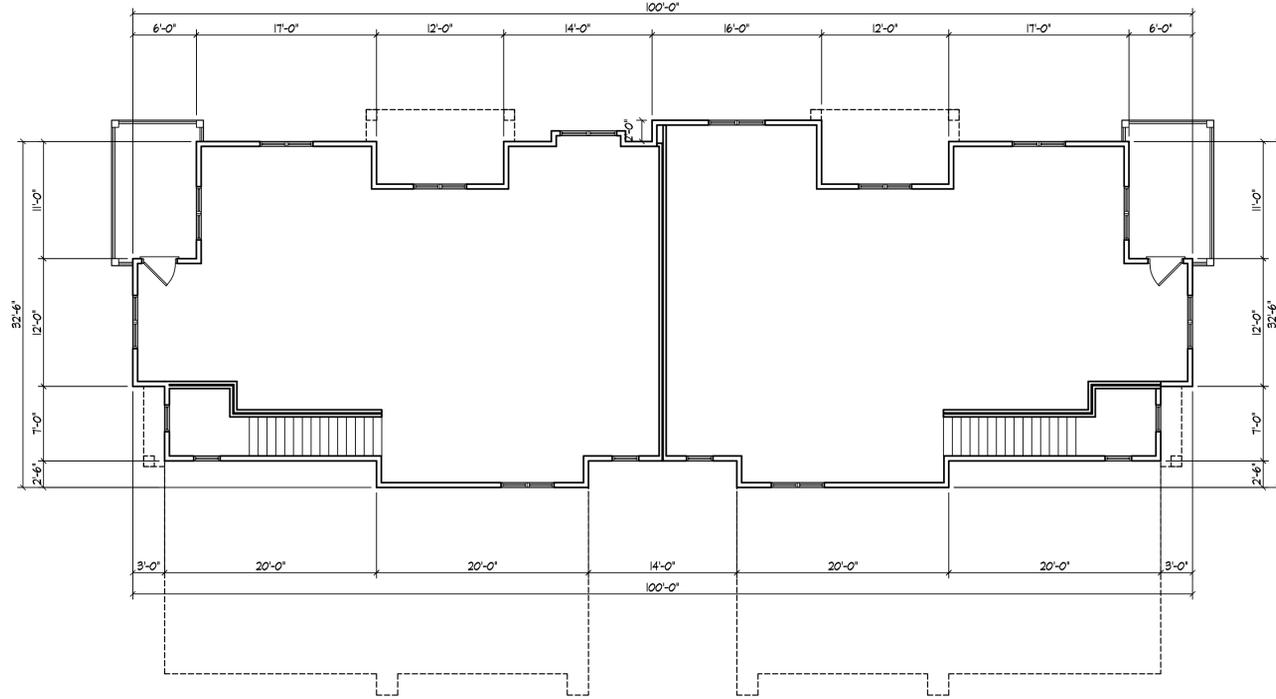
Loft Plan
28 Unit Building

Project No.

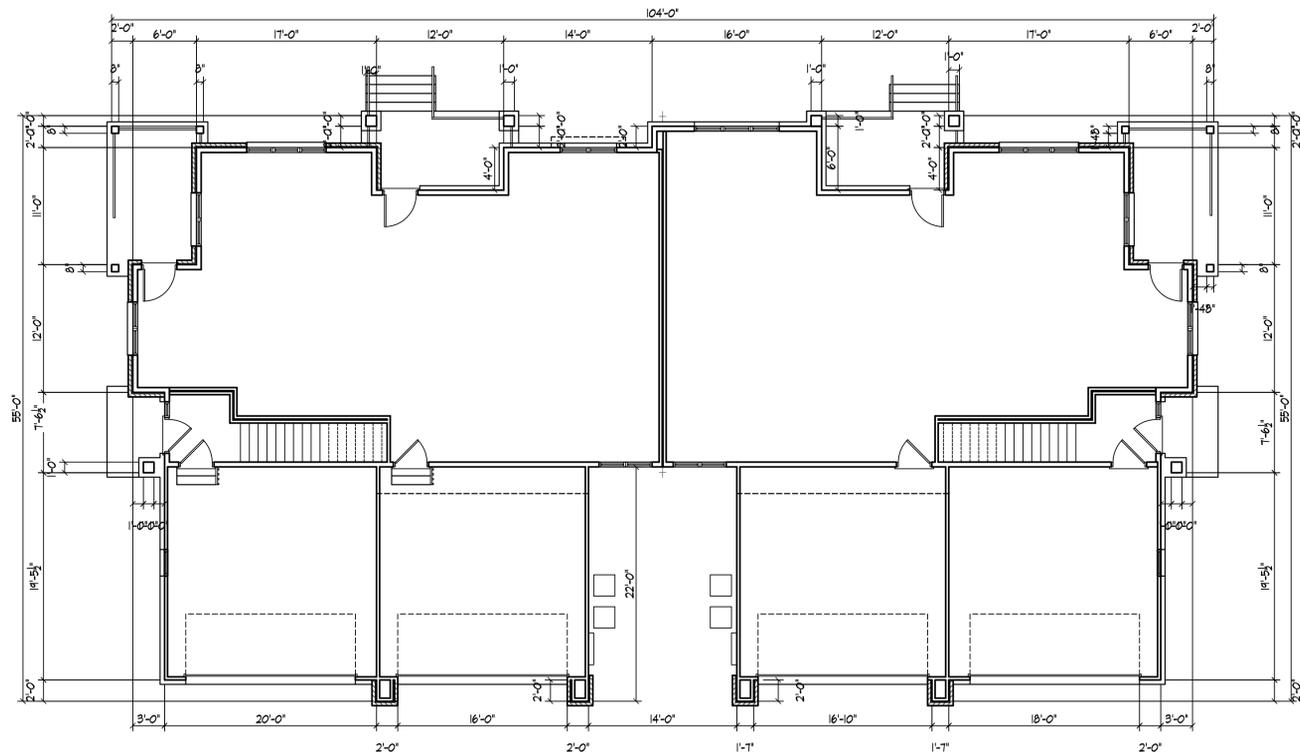
1020

Drawing No.

A-1.4



SECOND FLOOR PLAN
1/8" = 1'-0"



FIRST FLOOR PLAN
1/8" = 1'-0"



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



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

Revisions
OCTOBER 13, 2010 - UDC FINAL SUBMITTAL

Project Title
**Aspen Hill Apartments
Phase II**
9401 Mid Town Road
Lot 55 of the First Addition
to Hawks Ridge Estates

Drawing Title
Elevations

Project No. **28 Unit Building**

Drawing No.

1020

A-2.0



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



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

Revisions
OCTOBER 13, 2010 - UDC FINAL SUBMITTAL

Project Title
**Aspen Hill Apartments
Phase II**
9401 Mid Town Road
Lot 55 of the First Addition
to Hawks Ridge Estates

Drawing Title
Elevations

Project No. **28 Unit Building**

2010

Drawing No.

A-2.1

Notes

1. SEE SHEET A-6.1 FOR EXTERIOR MATERIAL AND COLOR SELECTIONS SCHEDULE.
2. SEE SHEET A-6.1 DOOR & WINDOW SCHEDULE



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



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



SOUTH ELEVATION (ALONG SILVERSTONE LANE)
1/8" = 1'-0"



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

Revisions

OCTOBER 13, 2010 - UDC FINAL SUBMITTAL

Project Title

Aspen Hill Apartments
Phase II
9401 Mid Town Road
Lot 55 of the First Addition
to Hanks Ridge Estates

Drawing Title

Elevations

4 Unit Building

Project No.

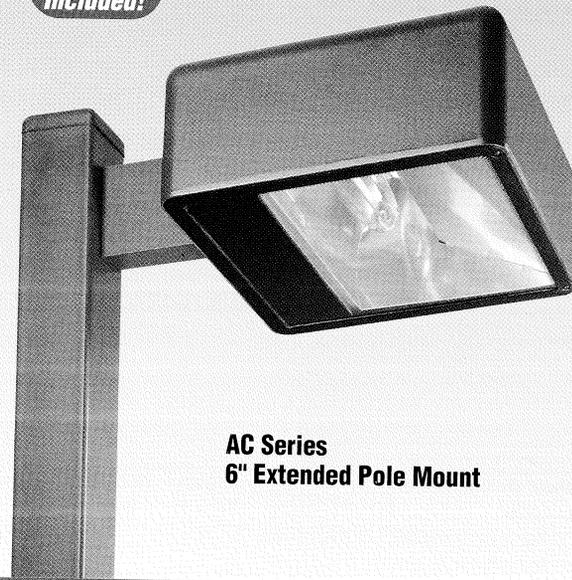
1020

Drawing No.

A-2.2

Lamp Included!

New improved photometric performance



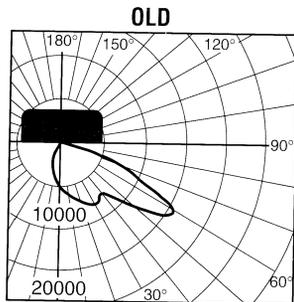
**AC Series
6\"/>**

Area Cutoff Light

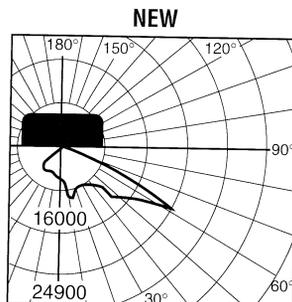
You'll see double-digit increases in street side efficiency with the redesigned reflector and repositioned lamp in the AC Series. This compact forward-throw reflector has a main beam of 60°+ from vertical (30° from horizontal), providing wide lateral distribution and excellent uniformities. A Backlight Shield accessory (standard on Wall Mount) permits precise cutoff adjustability.

Three Sizes:

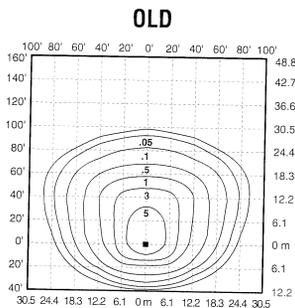
- 12" square x 5" deep (305 x 127 mm)
- 16" square x 6.5" deep (406 x 165 mm)
- 22" square x 9.25" deep (559 x 235 mm)



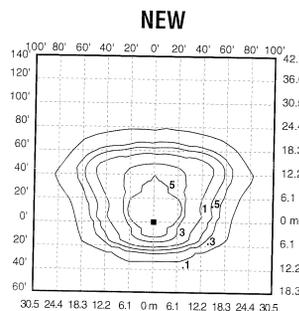
Candlepower distribution curve of 400W MH 16" Area Cutoff Light.



Candlepower distribution curve of 400W MH 16" Area Cutoff Light.



Isofootcandle plot of 400W MH Area Cutoff Light at 25' (7.6 m) mounting height, 0° tilt above horizontal, with backlight shield removed.



Isofootcandle plot of 400W MH Area Cutoff Light at 25' (7.6 m) mounting height, 0° tilt above horizontal, with backlight shield removed.

AC Series Order Information

Housing Size (sq.)	Wattage/ Lamp	Catalog Number	Prepay Price	Mounting Code (Insert Code at * in Catalog #)	Prepay Adder
12"	150W PSMH	MAC*615-M	\$193	1 = 1-1/2" Close Pole Mount	\$8
16"	320W PSMH	AC*632-M	\$216	2 = 6" Extended Pole Mount	\$13
22"	750W PSMH	AC*675-M	\$396	3 = 2" Adjustable Fitter	\$22
12"	50W MH	MAC*405-D	\$180	4 = Yoke Mount	\$10
12"	70W MH	MAC*407-D	\$180	6 = 1/2" Adjustable Fitter (12" housing only)	\$10
12"	100W MH	MAC*410-D	\$180		
12"	175W MH	MAC*417-M	\$168	K = Round Tube Off-Center Tenon Mount (16" housing only) (For 2-3/8" or 3" O.D.)	\$132
16"	175W MH	AC*417-M	\$196		
16"	250W MH	AC*425-M	\$198	M = Round Tube Off-Center Direct Mount (16" housing only) (Direct Fitter for 4" sq. pole)	\$118
16"	400W MH	AC*440-M	\$209		
22"	1000W MH	AC*499-M	\$360		
12"	35W HPS	MAC*503-1	\$159	W = Wall Mount (Backlight Shield is standard)	\$20
12"	50W HPS	MAC*505-D	\$164		
12"	70W HPS	MAC*507-M	\$164		
12"	100W HPS	MAC*510-M	\$164	8 = Without Mounting (hardware)	\$3
12"	150W HPS	MAC*515-M	\$167		
16"	250W HPS	AC*525-M	\$211		
16"	400W HPS	AC*540-M	\$220		

NOTE: When using multiple 22" sq. housings at 90° configuration, a special 12" arm is required; see page 150.

Other lamp wattages available—consult factory

⚡ Reduced envelope lamp. ED28 for 320W PSMH and 400W MH; BT37 for 1000W MH.

Options: (Factory-installed)	Change Suffix To	Add After Suffix	Prepay Adder
277V Reactor Ballast (PSMH only)		27	no adder
120V Reactor ballast (50–150W HPS 12" housing only)	1		deduct \$9
480V ballast (320W PSMH, 175–1000W MH & 70–400W HPS only)	5		no adder
347V ballast (50W HPS only) (Canada only)	6		\$22
Quad-volt ballast (50–100W MH only)		M	\$5
Tri-volt ballast (320W PSMH, 50–1000W MH & 70–400W HPS only) (Canada only)		T	no adder
Single Fuse (277V Reactor, 120V, 277V or 347V)	27, 1, 2 or 6	F	\$13
Dual Fuse (208V, 240V or 480V)	3, 4 or 5	F	\$22
Quartz Standby (delay-relay type) (includes 100W Q lamp) (n/a 277V Reactor)		Q	\$49
Button Photocell (Factory-installed with all mountings other than 2" Adjustable Fitter)			
NOTE: n/a on 1000W w/120V; all 480V	27, 1, 2, 3, 4 or 6	P	\$15
External Photocell (Factory-installed) (Page 133)			
For fixtures w/1000W, 120V	1	P	\$20
For fixtures w/480V	5	P	\$24

Accessories: (Field-installed)	12" housing Price	16" housing Price	22" housing Price
Wire Guard	FWG-12 \$13	FWG-16 \$17	FWG-22 \$35
Backlight Shield	SBL-12 \$5	SBL-16 \$5	SBL-22 \$8

(standard on AC Series Wall Mount)

Button Photocell (Field-installed in fixtures with 2" Adjustable Fitter)	Catalog #	Prepay Price
For fixtures w/120V (n/a on 1000W)	PC-1	\$10
For fixtures w/208, 240 or 277V	PC-2	\$10
For fixtures w/347V	PC-6	\$10

Mountings Page 116

Catalog Number Logic/Voltage Suffix Key Page 115

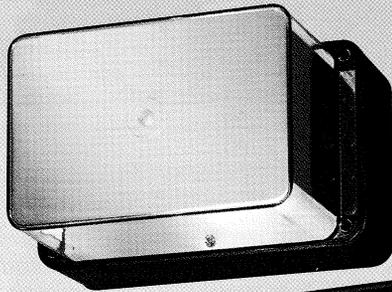
Optical Systems Pages 105–107

Accessories Page 133

Mounting Alternatives Pages 150–151

Mounting Brackets Pages 152–153

Poles Pages 154–157



Lamp
Included!

E5 Series
(shown with Gold
Shroud option)



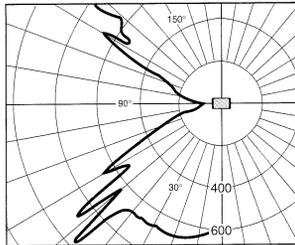
E8 Series
(shown with Bronze
Shroud option)

Up/Down Cutoff & Deep Shielded

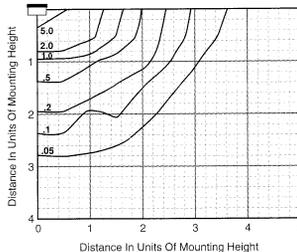
E5 Series
Up/Down Cutoff

The optics provide controlled uplight and downlight with side cutoff. The E5 Series optics are also available for vertical mounting; add suffix "R" to catalog number.

NOTE: 50-watt MH with suffix "G" is supplied with a glass insert to allow operation in the wall-mounted position.



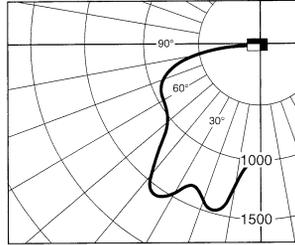
Candlepower Distribution Curve of 50W HPS E5 Up/Down Cutoff Light.



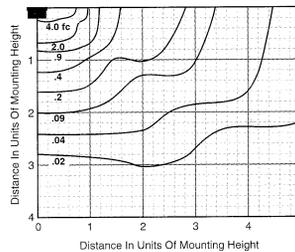
Isofootcandle plot of one 50W HPS E5 Up/Down Cutoff Light at 10' (3.0 m) mounting height (plan view).

E8 Series
Deep Shielded

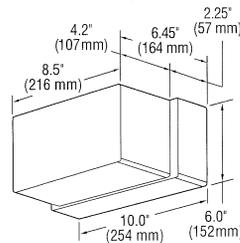
Front brightness shielding without sacrificing wide light distribution. The E8 works ideally over entrances.



Candlepower Distribution Curve of 70W HPS E8 Deep Shielded Light.



Isofootcandle plot of one 70W HPS E8 Deep Shielded Light at 15' (4.6 m) mounting height (plan view).



For 70W and 100W HPS with quad-volt or tri-volt, and all MH fixtures, the housing depth is 3" (76 mm), and the overall fixture depth is 7.2" (183 mm).

E Series Order Information

Description	Wattage/ Lamp Type	Catalog Number	Mounting Position	Prepay Price
Up/Down Cutoff	50W MH	E5405-DG	Wall	\$127
	35W HPS	E5503-1	Any	\$88
	50W HPS	E5505-1	Any	\$88
Deep Shielded	50W MH	E8405-D	Wall Downlight only	\$113
	70W MH	E8407-D	Wall Downlight only	\$113
	35W HPS	E8503-1	Any	\$85
	50W HPS	E8505-1	Any	\$85
	70W HPS	E8507-1	Wall Downlight only	\$85
	100W HPS	E8510-1	Wall Downlight only	\$85

NOTE: Suffix "G" indicates glass insert is supplied.

Options: (Factory-installed)	Change Suffix To	Add After Suffix	Prepay Adder
Single-volt ballast (277V, 208V or 240V) (35-50W HPS only)	2, 3 or 4		\$22
Quad-volt ballast (70-100W HPS only)	M		\$22
Quad-volt ballast (50-70W MH)	M		\$5
347V ballast (50W HPS only)	6		\$22
Tri-volt ballast (50 & 70W MH only) (Canada only)	T		\$5
Tri-volt ballast (70 & 100W HPS only) (Canada only)	T		\$33
Photocell (120V, 277V, 208V, 240V or 347V)	1, 2, 3, 4 or 6	P	\$15
Bronze Color Shroud		BS	\$8
Gold Color Shroud (not available on 100W HPS)		GS	\$8
High Power Factor ballast		H	\$10
Tamperproof Lens Fasteners		J	\$2
Vertical Mounting (E5 Series only)		R	\$15
Polycarbonate Lens		V	\$4

Accessories: (Field-installed)	Catalog Number	Prepay Price
Surface Mounting Box	ESB-7	\$15
Pole Mounting Bracket	PAS-7	\$23
Tamperproof Screwdriver	TPS-1	\$17

Catalog Number Logic/Voltage Suffix Key Page 11
 Bollard Panel Page 31
 Accessories Page 39

E5 Series Mounting Multipliers

Height	Multiplier
7' (2.1 m)	2.04
8' (2.4 m)	1.56
9' (2.7 m)	1.23
10' (3.0 m)	1.00
12' (3.7 m)	0.69
15' (4.6 m)	0.44
20' (6.1 m)	0.25

E8 Series Mounting Multipliers

Height	Multiplier
8' (2.4 m)	3.52
10' (3.0 m)	2.25
12' (3.7 m)	1.56
15' (4.6 m)	1.00
20' (6.1 m)	0.56
25' (7.6 m)	0.36

The E5 Series photometric data was developed in testing Ruud fixtures with clear, 50W HPS 4,000 lumen medium base lamps. Footcandle readings for other wattages and lamp types may be obtained by multiplying the chart values by the following:

Lamp/Wattages	Multiplier
50W MH	0.85
35W HPS	0.56

The E Series photometric data in this section was developed in testing Ruud fixtures with clear, 70W HPS 6,400 lumen medium base lamps. Footcandle readings for other wattages and lamp types may be obtained by multiplying the chart values by the following:

Lamp/Wattages	Multiplier
50W MH	0.53
70W MH	0.86
35W HPS	0.35
50W HPS	0.63
100W HPS	1.48

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