

APPLICATION FOR
URBAN DESIGN COMMISSION
REVIEW AND APPROVAL

AGENDA ITEM # _____

Project # _____

04007

DATE SUBMITTED: <u>AUGUST 16, 2006</u>	<input type="checkbox"/> Informational Presentation
UDC MEETING DATE: <u>AUGUST 23, 2006</u>	<input type="checkbox"/> Initial Approval and/or Recommendation
	<input checked="" type="checkbox"/> Final Approval and/or Recommendation

PROJECT ADDRESS: 5901 ODANA ROAD

ALDERMANIC DISTRICT: 19 - NOEL RADOMSKI

OWNER/DEVELOPER (Partners and/or Principals) J.R. SMART - SMART MOTORS
ARCHITECT/DESIGNER/OR AGENT: JIM TRIATIK - K.F. SULLIVAN
5901 ODANA ROAD 1314 EMIL ST.
MADISON WI 53719 MADISON WI 53713

CONTACT PERSON: JIM TRIATIK - K.F. SULLIVAN CO.
Address: 1314 EMIL ST.
MADISON WI 53713
Phone: 608 - 257 - 2289
Fax: 608 - 257 - 2906
E-mail address: Jim@KFSULLIVAN.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)

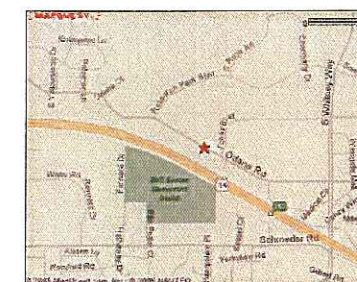


Smart Motors

New Toyota Facility

5901 Odana Road

Madison, WI 53719



Date: August 16, 2006

Sheet Index

SP-1 EXISTING SITE PLAN
SP-2 SITE / UTILITY PLAN
SP-3 GRADING AND EROSION
CONTROL PLAN

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SP-5 PHASE 2 SITE PLAN
SP-6 PHASE 3 SITE PLAN
SP-7 SITE PHOTOS

E-0 SITE LIGHTING PLAN
E-0a PHOTOMETRIC PLAN

L-1 LANDSCAPE PLAN
BUILDING ELEVATIONS



Urban Design Commission review set
Project No. 206-063

STAMPS &
APPROVALS :

 **Kenneth F.
Sullivan**
CO.
DESIGN BUILD /
GENERAL CONTRACTORS
P.O. BOX 259463 1314 EMIL ST. 608-257-2289
MADISON, WI 53725-9463 FAX 608-257-2906
www.kfsullivan.com



Mailing Address - P.O. Box 259463 - Madison, WI 53725-9463
Street Address - 1314 Emil Street - Madison, WI 53713
Telephone - (608) 257-2289 Fax - (608) 257-2906

August 16, 2006

**Letter of Intent for a new Smart Motors Toyota Dealership
5901 Odana Road**

Dear Urban Design Commission Members,

As Smart Motors approaches 100 years in business in 2008, they wish to construct a new 97,000 square foot Toyota facility in the same location as their existing building. In order to accomplish this goal, three buildings on the existing 6.76-acre site will need to be demolished.

In an effort to have improved traffic flow onto Odana Road, our new site plan decreases the number of driveways, or curb cuts, from six down to only three. Customers leaving Smart Motors will be directed to leave at the intersection of Odana and Tokay, which currently is a stoplight-controlled intersection. Another special feature of the new site design is a bicycle pit stop area that would be connected to the existing bike path. This would also allow someone on a bike to access the stoplights mentioned above to cross Odana Road.

The timeline for the entire project will be approximately one year, with construction to start late summer/early fall of this year.

Our Project team includes:

J.R. Smart, Jim Budinetz, and Allen Foster of Smart Motors
Architect: K.F. Sullivan Company
General Contractor: K.F. Sullivan Company
Landscape Architect: Paul Skidmore of Barnes, Inc.
Storm Water Management: Quam Engineering, L.L.C.
Site Lighting: Rob Rudolf of Electric Construction, Inc.

Smart Motors currently employs 117 full and part time people and their hours of operation are:

Sales: Summer hours (Memorial Day to Labor Day)
Monday thru Thursday: 9 a.m. - 8 p.m.
Friday: 9 a.m. - 6 p.m.
Saturday: 9 a.m. - 5 p.m.
Sunday: Closed

Sales : Winter hours (Labor Day to Memorial Day)
Monday & Thursday: 9 a.m. - 8 p.m.
Tuesday, Wednesday & Friday: 9 a.m. - 6 p.m.
Saturday: 9 a.m. - 5 p.m.
Sunday: Closed

Service & Parts:
Monday & Thursday: 7 a.m. - 8 p.m.
Tuesday, Wednesday & Friday: 7 a.m. - 6 p.m.
Saturday: 7:30 a.m. - 12:00 p.m.
Sunday: Closed

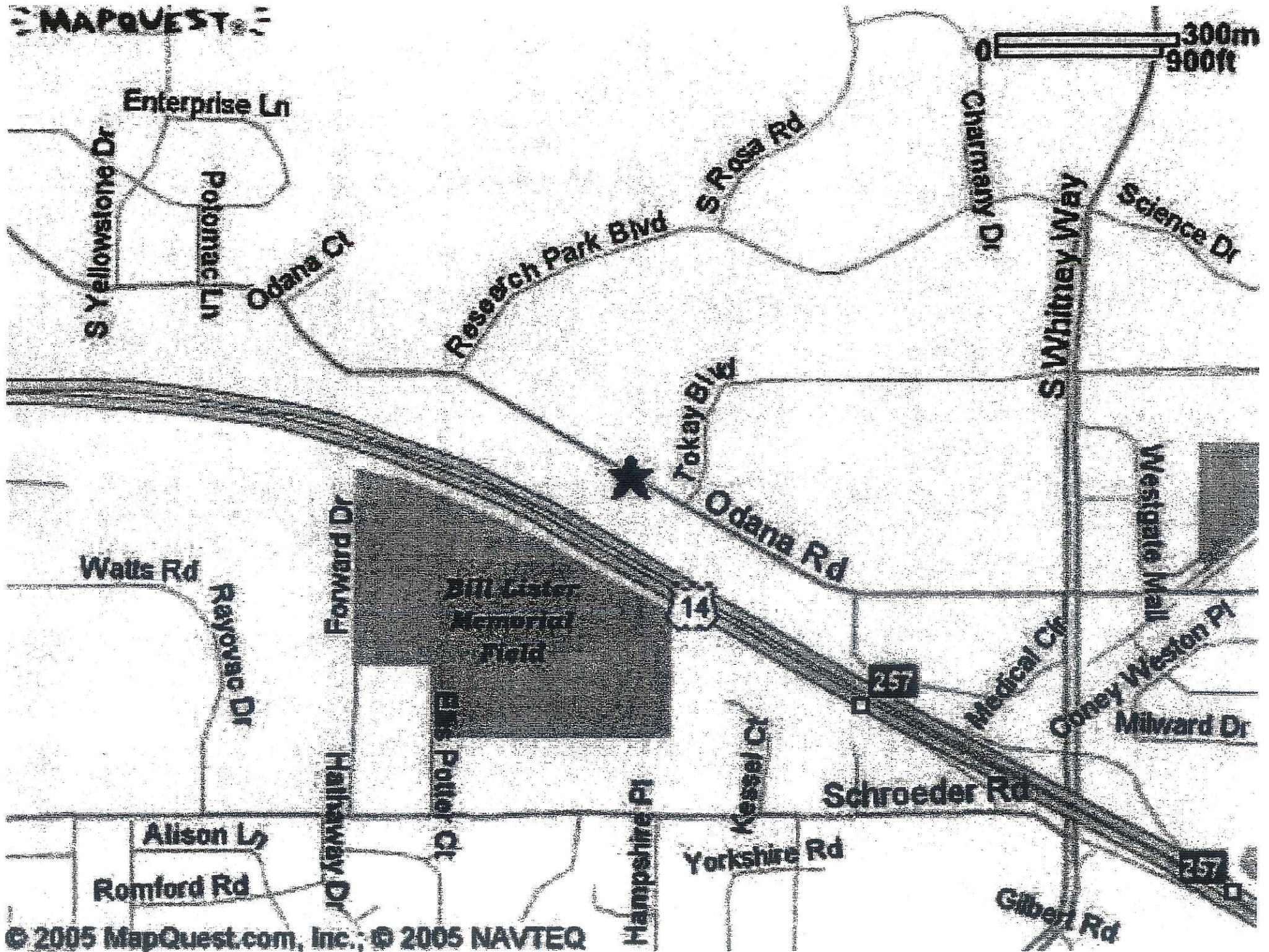
They anticipate extending Saturday hours for Service & Parts (probably until 5 p.m.) in the new facility, quick lube hours would probably be the same as service unless they see a need to extend (based on customer requests).

If you should require additional information of this proposal, please contact me at 257-2289.

Sincerely,
K. F. SULLIVAN CONSTRUCTION

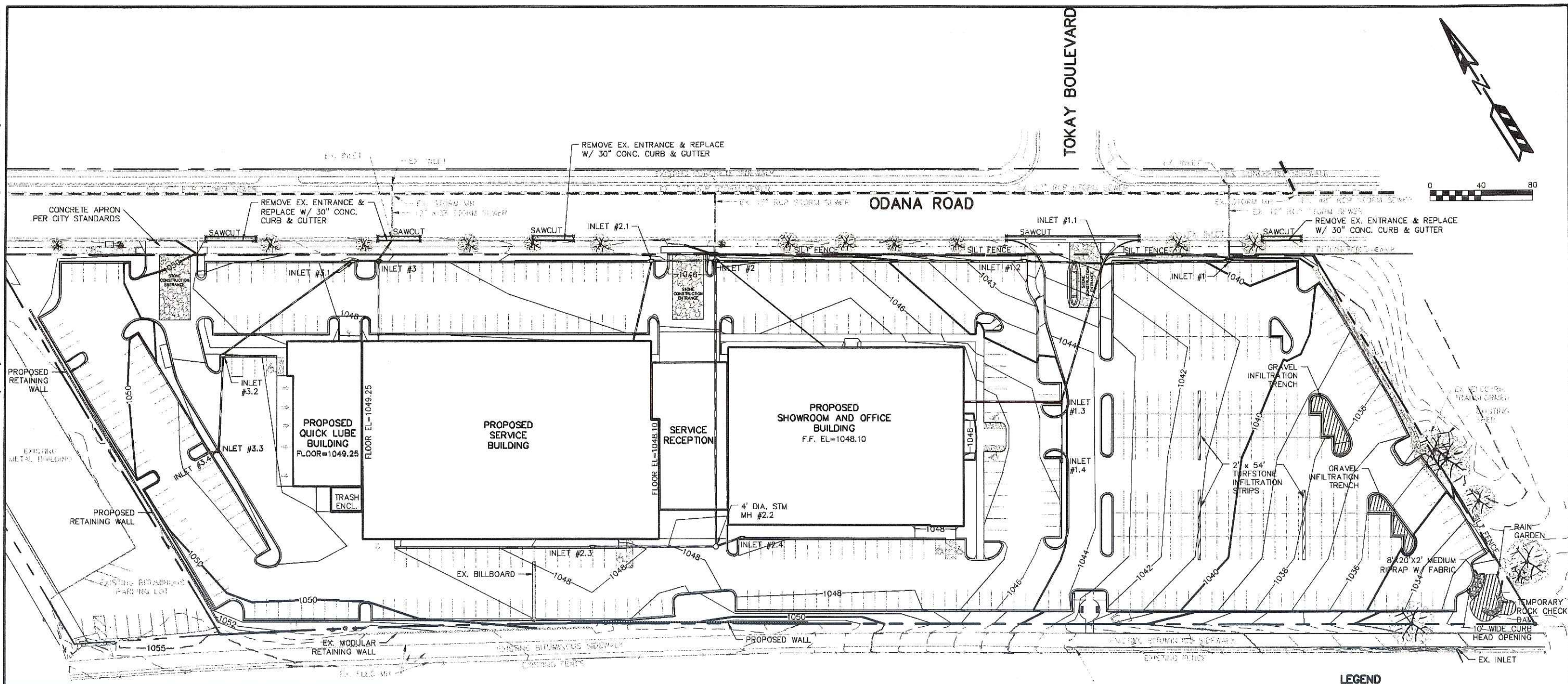
James M. Triatik, A.I.A.
Vice President / Project Architect

MAPQUEST



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QUAM ENGINEERING, LLC 4893 Larson Beach Road, McFarland, WI 53558 (608) 838-7750
 SU-25-06\SU26BASE.DWG 9/22/07 11:51:27



WEST BELTLINE HIGHWAY

EROSION NOTES:
 THE STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. THE TRACKING PAD IS TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION, WHICH WILL PREVENT THE TRACK OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORKDAY.

EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GRADING OPERATIONS AND SHALL BE PROPERLY MAINTAINED UNTIL MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS ESTABLISHED. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF A 0.5 INCH RAIN EVENT. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.

CUT AND FILL SLOPES SHALL BE NO GREATER THAN 3:1.

EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECOGNIZING AND CORRECTING ALL EROSION CONTROL PROBLEMS THAT ARE A RESULT OF CONSTRUCTION ACTIVITIES. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.

TIME SCHEDULE:

AUGUST 1 - SEPTEMBER 15, 2006	CONSTRUCT PHASE I PARKING LOT AND RESTORE DISTURBED AREAS. (SEE SHEET SP-4)
SEPTEMBER 16, 2006 - MAY 30, 2007	CONSTRUCT PHASE II BUILDING, PARKING LOTS AND UTILITIES AND RESTORE DISTURBED AREAS. (SEE SHEET SP-5)
JUNE 1, 2007 - AUGUST 30, 2007	CONSTRUCT PHASE III BUILDING, PARKING LOTS AND UTILITIES AND RESTORE DISTURBED AREAS. (SEE SHEET SP-6)

RESTORATION NOTES:
 ALL DISTURBED AREAS, EXCEPT PAVEMENT AND SIDEWALK, SHALL RECEIVE A MINIMUM OF FOUR (4) INCHES OF TOPSOIL, FERTILIZER, SEED AND MULCH. RESTORATION WILL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL. SEED MIXTURE 20 SHALL BE USED ON ALL AREAS. MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS. AN EQUAL AMOUNT OF ANNUAL RYEGRASS SHALL BE ADDED TO THE MIX.

SEED MIXTURES SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET.

FERTILIZER SHALL MEET THE MINIMUM REQUIREMENTS THAT FOLLOW: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 6%; POTASH, NOT LESS THAN 6%.

OWNER:
 SMART MOTORS
 5901 ODANA ROAD
 MADISON, WI 53719

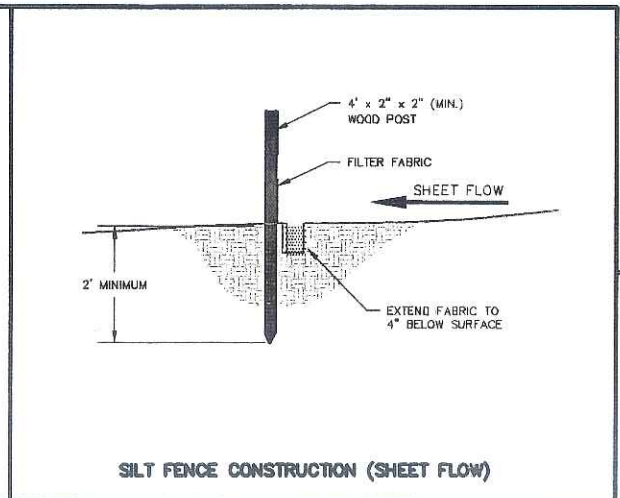
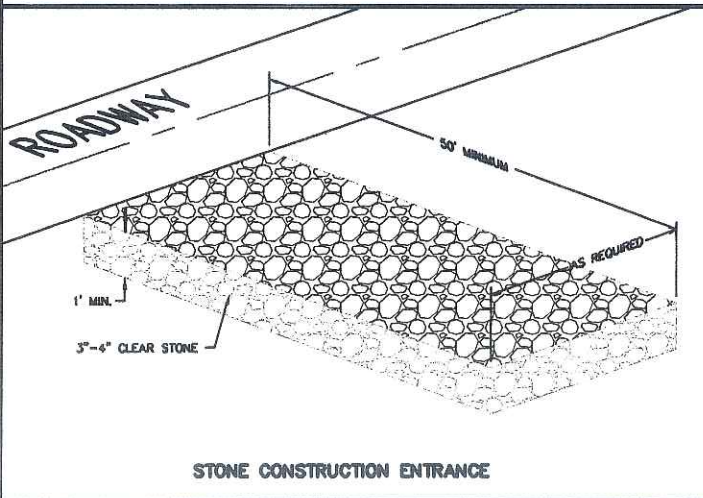
ENGINEER:
 QUAM ENGINEERING, LLC
 ATTN: RYAN QUAM
 4893 LARSON BEACH ROAD
 MCFARLAND, WI 53558

IMPERVIOUS AREAS

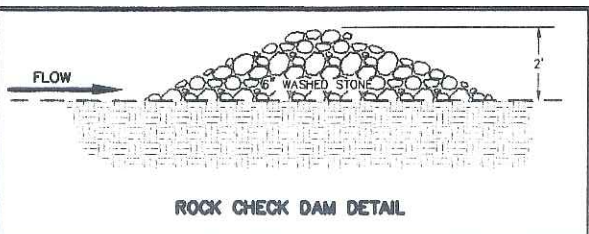
BUILDING	73,639 SQ.FT.
PARKING LOT/SIDEWALK	184,202 SQ.FT.

ALL GRADES ARE EDGE OF PAVEMENT ELEVATIONS UNLESS NOTED.

SEE SHEETS SP4-SP6 FOR STORM SEWER INFORMATION



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
 1-800-242-8511
 TOLL FREE
 TDD(FOR THE HEARING IMPAIRED)(800)542-2289
 WIS. STATUTE 182.0175 (1974)
 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE



LEGEND

—1051—	EXISTING MINOR CONTOUR
—1050—	EXISTING MAJOR CONTOUR
—1051—	PROPOSED MINOR CONTOUR
—1050—	PROPOSED MAJOR CONTOUR
—	SILT FENCE
-1050.00	PROPOSED SPOT ELEVATION
—	PROPOSED STORM SEWER
	EXISTING WATER HYDRANT
	EXISTING WATER VALVE
	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING DECIDUOUS TREE

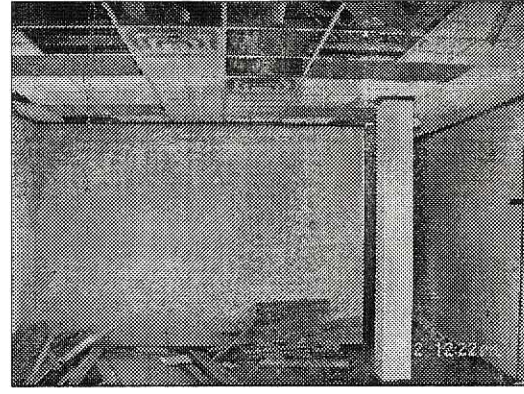
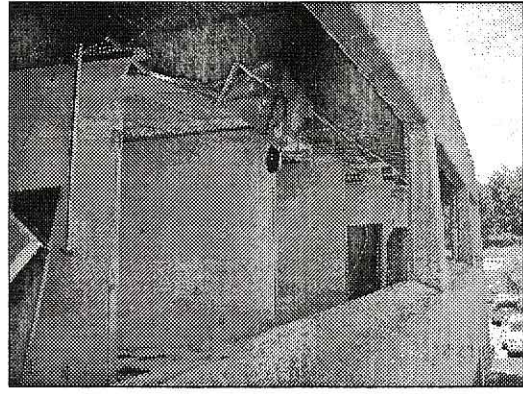
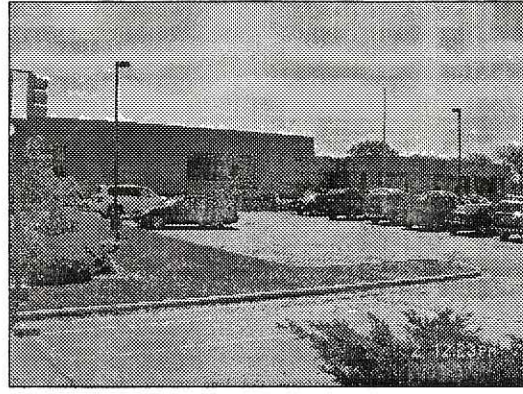
Smart Motors
 New Toyota Facility
 5901 Odana Road
 Madison, WI 53719

Sullivan
 DESIGN BUILD GENERAL CONTRACTORS
 P.O. BOX 259-463, 1314 ELM ST. MADISON, WI 53723-9463 FAX 608-257-2906

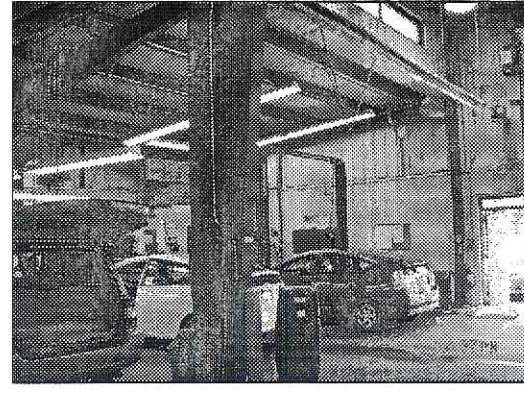
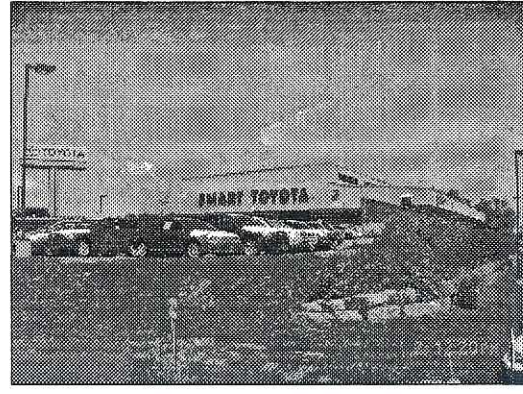
DRAWING NAME: GRADING AND EROSION CONTROL PLAN PHASES I, II, & III
 DRAWN BY: AFT/RDQ
 DATE: 8/14/06

SHEET: **SP-3**
 PROJ. # PROJ. NO.

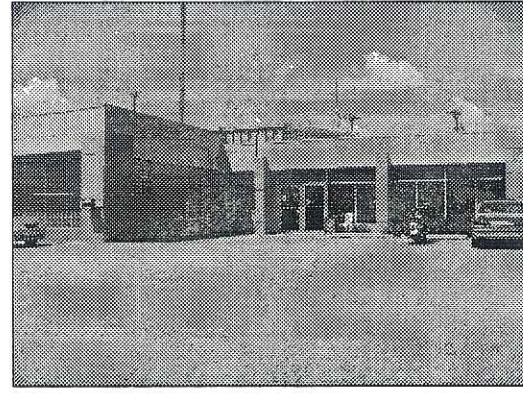
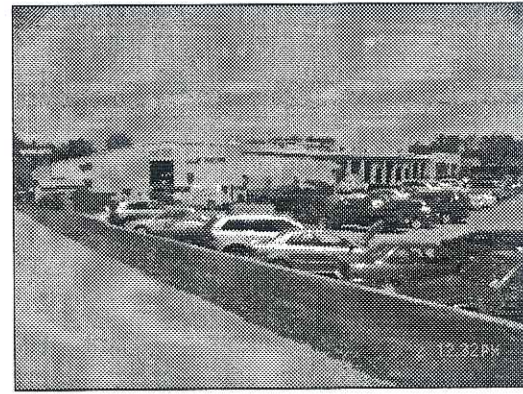
REVISIONS:
 REVISION 1
 REVISION 2
 REVISION 3
 REVISION 4
 REVISION 5



EXISTING WI HOSPITAL ASSOCIATION BUILDING TO BE DEMOLISHED



EXISTING SMART TOYOTA BUILDING TO BE DEMOLISHED



EXISTING SMART VOLVO BUILDING TO BE DEMOLISHED

REVISIONS



Smart Motors
New Toyota Facility
5901 Odana Road
Madison, WI 53719

Henneth
Sullivan
CO
DESIGN BUILD /
GENERAL CONTRACTORS
P.O. BOX 259463 1314 EMIL ST. MADISON, WI 53725-9463
608-257-2299 FAX 608-257-2906

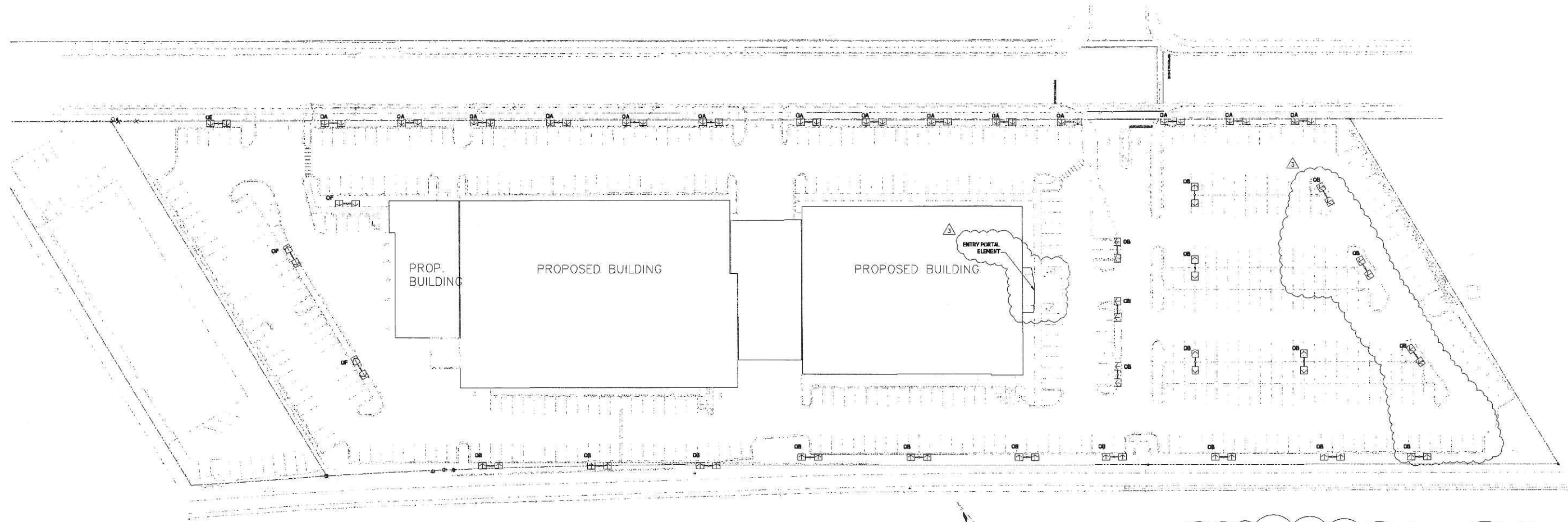
DRAWING NAME
SITE PHOTOS
DRAWN BY: JIMT
DATE: 6-2-06

SHEET
SP-7

PROJ. # 206-063

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1 Site Lighting Plan

DESIGN CRITERIA

THIS ENTIRE LOT QUALIFIES AS AN OUTDOOR MERCHANDISING AREA ACCORDING TO MADISON CITY ORDINANCE 10.085.

"10.085(4)(d) FOR AN OUTDOOR MERCHANDISING AREA, THE MAXIMUM INITIAL ILLUMINATION LEVEL IN 75% OF THE LOT SHALL NOT EXCEED 20 FOOTCANDLES. A CONTIGUOUS AREA NOT TO EXCEED 25% OF THE LOT MAY BE ILLUMINATED TO A LEVEL WHICH SHALL NOT EXCEED 40 FOOTCANDLES."

ALL LIGHTING FIXTURES INSTALLED SHALL UTILIZE CLEAR FLAT LENSES WITH FULL CUT-OFF OR SHIELDED OUTPUT.

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION	QUANTITY	LAMPS
DA	KIM	2B/STX4/100DMH/HS	TWIN FORWARD THROW W/ INTERNAL GLARE SHIELD 20' ROUND STEEL POLE ON 2' CONCRETE BASE	14	M-1000 BT-37
	LSI	CHH-FT-1000MHR-F-HS	ARROW INDICATES DIRECTION OF ROTATED OPTIC		
DB	KIM	2B/STX4/100DMH/HS	TWIN FORWARD THROW W/ INTERNAL GLARE SHIELD 30' ROUND STEEL POLE ON 2' CONCRETE BASE	20	M-1000 BT-37
	LSI	CHH-FT-1000MHR-F-HS	ARROW INDICATES DIRECTION OF ROTATED OPTIC		
DC		NOT USED	NOT USED		
DD		NOT USED	NOT USED		
DE	KIM	2B/STL4/400MH/HS	TWIN FORWARD THROW W/ INTERNAL GLARE SHIELD 20' ROUND STEEL POLE ON 2' CONCRETE BASE	1	MVR400/U
	LSI	CHH-FT-400MH-F-HS	ARROW INDICATES DIRECTION OF ROTATED OPTIC		
DF	KIM	2B/STL4/400MH/HS	TWIN FORWARD THROW W/ INTERNAL GLARE SHIELD 30' ROUND STEEL POLE ON 2' CONCRETE BASE	3	MVR400/U
	LSI	CHH-FT-400MH-F-HS	ARROW INDICATES DIRECTION OF ROTATED OPTIC		

- NOTES:
- ARROWS INDICATED ROTATION OF OPTICS WITHIN THE FIXTURE HOUSING.
 - ALL POLE MOUNTED FIXTURES SHALL HAVE FULL CUT-OFF OPTICS WITH FLAT GLASS LENSES.
 - TYPE DE & OF SHALL BE USED FOR EMPLOYEE PARKING AREAS ONLY.

SHEET
E-0

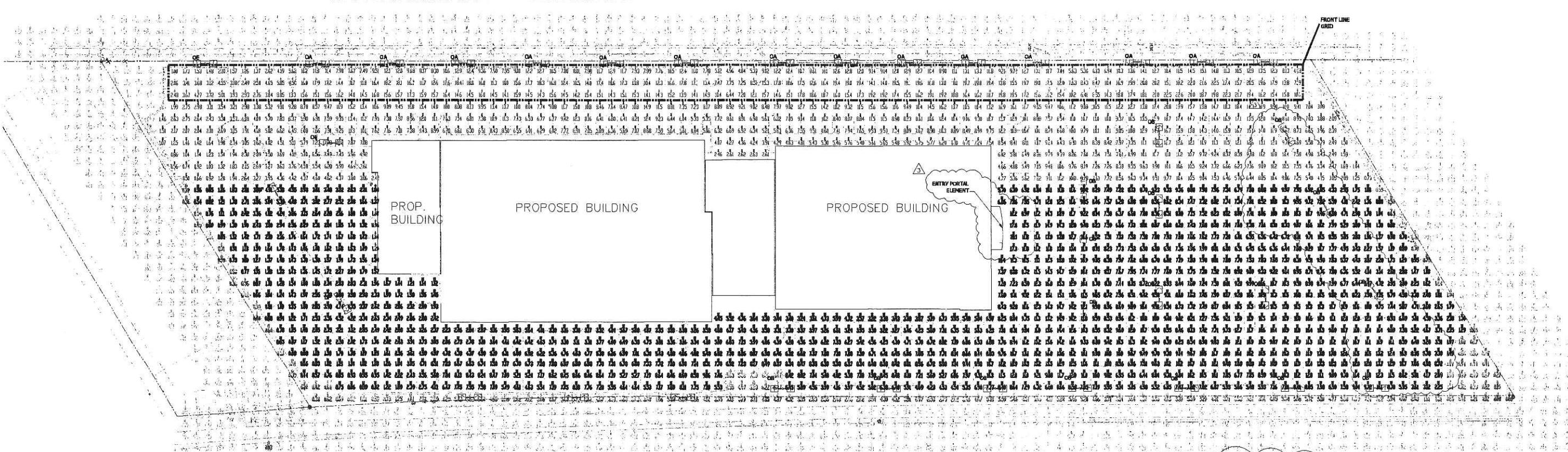
JOB NUMBER
DRAWN BY: RAR
SCALE: 1" = 40'-0"
DATE: 6/6/06

Electric Construction Inc.
Electrical Design, Contracting & Consulting

2861 Index Road
Madison WI 53713
608/271-2046
Fax 271-0160

Smart Motors
5901 Odana Road
Madison, WI 53719

REVISIONS:
7/12/2006
7/19/06 UDC Revisions
8/16/06 EAST Lightline



1 Site Lighting Photometric Plan

DESIGN CRITERIA

THIS ENTIRE LOT QUALIFIES AS AN OUTDOOR MERCHANDISING AREA ACCORDING TO MADISON CITY ORDINANCE 10.085.

"10.085(4)(d) FOR AN OUTDOOR MERCHANDISING AREA, THE MAXIMUM INITIAL ILLUMINATION LEVEL IN 75% OF THE LOT SHALL NOT EXCEED 20 FOOTCANDLES. A CONTIGUOUS AREA NOT TO EXCEED 25% OF THE LOT MAY BE ILLUMINATED TO A LEVEL WHICH SHALL NOT EXCEED 40 FOOTCANDLES."

ALL LIGHTING FIXTURES INSTALLED SHALL UTILIZE CLEAR FLAT LENSES WITH FULL CUT-OFF OR SHIELDED OUTPUT.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION	QUANTITY	LAMPS
DA	KIM	2B/STX4/1000MH/HS	TWIN FORWARD THROW W/ INTERNAL GLARE SHIELD 20' ROUND STEEL POLE ON 2' CONCRETE BASE	14	M-1000 BT-37
	LSI	CHH-FT-1000MHR-F-HS	ARROW INDICATES DIRECTION OF ROTATED OPTIC		
OB	KIM	2B/STX4/1000MH/HS	TWIN FORWARD THROW W/ INTERNAL GLARE SHIELD 30' ROUND STEEL POLE ON 2' CONCRETE BASE	20	M-1000 BT-37
	LSI	CHH-FT-1000MHR-F-HS	ARROW INDICATES DIRECTION OF ROTATED OPTIC		
OC		NOT USED	NOT USED		
OD		NOT USED	NOT USED		
OE	KIM	2B/STL4/400MH/HS	TWIN FORWARD THROW W/ INTERNAL GLARE SHIELD 20' ROUND STEEL POLE ON 2' CONCRETE BASE	1	MVR400/U
	LSI	CHH-FT-400MH-F-HS	ARROW INDICATES DIRECTION OF ROTATED OPTIC		
OF	KIM	2B/STL4/400MH/HS	TWIN FORWARD THROW W/ INTERNAL GLARE SHIELD 30' ROUND STEEL POLE ON 2' CONCRETE BASE	3	MVR400/U
	LSI	CHH-FT-400MH-F-HS	ARROW INDICATES DIRECTION OF ROTATED OPTIC		

NOTES

- ARROWS INDICATED ROTATION OF OPTICS WITHIN THE FIXTURE HOUSING.
- ALL POLE MOUNTED FIXTURES SHALL HAVE FULL CUT-OFF OPTICS WITH FLAT GLASS LENSES.
- TYPE OE & OF SHALL BE USED FOR EMPLOYEE PARKING AREAS ONLY.

POINT BY POINT CALCULATION SUMMARY

AREA NAME	AREA DESCRIPTION	AVERAGE	MAXIMUM	MINIMUM
FRONT LINE *	25% OR LESS OF PARKING LOT FOR VEHICLE SALES HORIZONTAL CALCULATION ON PAVEMENT VALUES LISTED ARE MAINTAINED FOOTCANDLES	12.3	22.6	0.6
MAIN LOT *	75% OF PARKING LOT FOR NEW AND USED VEHICLE SALES HORIZONTAL CALCULATION ON PAVEMENT VALUES LISTED ARE MAINTAINED FOOTCANDLES	7.1	20.1	0.4

POINTS INDICATED WITH # AND GRAY ARE SHOWN FOR REFERENCE ONLY AND ARE NOT INCLUDED IN THE CALCULATION ABOVE.

REVISIONS:

7/12/2006	
7/19/06	UDC Revisions
8/16/06	EAST Lighting

Smart Motors
5901 Odana Road
Madison, WI 53719

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Madison WI 53713
608/271-2046
Fax 271-0160

Electric Construction inc.
Electrical Design, Contracting & Consulting

JOB NUMBER
DRAWN BY: RAR
SCALE: 1" = 40'-0"
DATE: 6/6/06

SHEET
E-0a

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KIM LIGHTING STX 1000W Structural™
revision 04/01/04 • stx.pdf

Type: OC
Job: SMART MOTORS
Catalog number:

3T / STX4 / 1000MH277 / VSF-3T

Fig. Frame Electrical Module Finish Options Structural Option
See page 2 See page 3 See page 4-6 See page 7-9

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

Date: **Page: 1 of 9**

Specifications

600 to 1000 watt
Mogul Base Lamps

**FORWARD THROW
FLAT GLASS TEMPERED LENS**

Housing: One-piece die-cast, low copper (< 0.6% Cu) aluminum with integral cooling fins on top surfaces above the optical chamber and electrical compartment. A solid barrier wall separates the optical and electrical compartments, with gasketed wire penetrations. A double-thick wall with gaskets is provided on the support arm mounting end. All hardware is stainless steel.

Lens Frame: One-piece die-cast, low copper (< 0.6% Cu) aluminum with a 1" minimum thickness around the gasket flange for rigidity. Integral hinges with stainless steel pins provide no-tool mounting and removal from the housing. Two stainless steel thumb-latches are recessed into the front corners, concealed from normal view. Lens frame seals against the housing by a one-piece extruded silicone gasket with vulcanized end closure. Clear 1/8" thick tempered flat glass is retained in the frame by eight clips with full silicone gasketing around the perimeter.

Reflector Module: Specular Alzak® optical segments are rigidly mounted in a die-cast, low copper (< 0.6% Cu) aluminum frame which attaches to the housing as a one-piece module with captive stainless steel screws. Reflector module is field-rotatable in 90° increments. All HPS and MH lamps use 5KV mogul base sockets. Lamp is braced with a lamp vibration clamp. All sockets are factory prewired with a quick-disconnect plug for the ballast module, with wires passing through a silicone gasket in the housing barrier wall. Four light distributions are available and interchangeable within the same housing size.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to the housing with no-tool hinges and latches, accessible by opening the lens frame. All ballasts are high power factor with starting temperatures of -40°F for HPS and -20°F for MH lamp modes.

Support Arms: One-piece extruded aluminum with internal bolt guides. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. For mounting to round poles, arm is circular cut for precise mating to the pole diameter.

Finish: Super TGIC thioester polyester powder coat paint, 2.5 mil nominal thickness, applied over a Titanated Zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings		
UL cUL 1598	G Vibration ¹	25C Ambient
IP66 Rated	CE	ISO 9001:2000
FCO Full Cut OIP (See Class Lens Chart)		

¹SK Cycle Tested
Dark Sky Legislation Compliant

© 2004 KIM LIGHTING INC. • P.O. BOX 60080, CITY OF INDUSTRY, CA 91716-0080 • TEL: 626/998-6566 • FAX: 626/359-2855 563884002

KIM LIGHTING STX 1000W Structural™
revision 04/01/04 • stx.pdf

Type: OC
Job: SMART MOTORS
Page: 2 of 9

Standard Features

Mounting
3Y is available for round poles only.

Plan View:

EPA: 3.5 7.0 4.5 8.0 8.0 8.5 -
Cat. No.: 1A 2B 2L 3T 3Y 4C 1W

Horizontal Lamp

Light Distribution: Type II Full Cutoff STX2, Type III Full Cutoff STX3, Type IV Forward Throw Full Cutoff STX4, Type V Square Full Cutoff STX5

Figure
Cat. No. designates STX fixture and light distribution. See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.

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KIM LIGHTING STX 1000W Structural™
revision 04/01/04 • stx.pdf

Type: OC
Job: SMART MOTORS
Page: 3 of 9

Standard Features

Electrical Module
HPS = High Pressure Sodium
MH = Metal Halide
PMH = Pulse Start Metal Halide

Lamp T-16, Clear
Socket Mogul Base
ANSI Ballast Type S-106

Lamp Line Watts Type Volts
1000 PMH 277

Cat. Nos. for Electrical Modules available:

<input type="checkbox"/> 600HPS120	<input type="checkbox"/> 750HPS120	<input type="checkbox"/> 1000HPS120
<input type="checkbox"/> 600HPS208	<input type="checkbox"/> 750HPS208	<input type="checkbox"/> 1000HPS208
<input type="checkbox"/> 600HPS240	<input type="checkbox"/> 750HPS240	<input type="checkbox"/> 1000HPS240
<input type="checkbox"/> 600HPS277	<input type="checkbox"/> 750HPS277	<input type="checkbox"/> 1000HPS277
<input type="checkbox"/> 600HPS347	<input type="checkbox"/> 750HPS347	<input type="checkbox"/> 1000HPS347
<input type="checkbox"/> 600HPS480	<input type="checkbox"/> 750HPS480	<input type="checkbox"/> 1000HPS480

Lamp	T-16, Clear	BT-37, Clear	E-25, Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast Type	S-106	S-111	S-52

<input type="checkbox"/> 1000PMH120	<input type="checkbox"/> 750PMH120	<input type="checkbox"/> 1000PMH120
<input type="checkbox"/> 1000PMH208	<input type="checkbox"/> 750PMH208	<input type="checkbox"/> 1000PMH208
<input type="checkbox"/> 1000PMH240	<input type="checkbox"/> 750PMH240	<input type="checkbox"/> 1000PMH240
<input checked="" type="checkbox"/> 1000PMH277	<input type="checkbox"/> 750PMH277	<input type="checkbox"/> 1000PMH277
<input type="checkbox"/> 1000PMH347	<input type="checkbox"/> 750PMH347	<input type="checkbox"/> 1000PMH347
<input type="checkbox"/> 1000PMH480	<input type="checkbox"/> 750PMH480	<input type="checkbox"/> 1000PMH480

Lamp	BT-37, Clear	BT-37, Clear	BT-37, Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast Type	M-47	M-149	M-141

Finish
Super TGIC powder coat paint over a Titanated Zirconium conversion coating.

Color: Black Dark Bronze Light Gray Platinum Silver White Custom Colors¹
Cat. No.: BL-P DB-P LG-P PS-P WH-P CC-P

¹Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description:

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KIM LIGHTING STX 1000W Structural™
revision 04/01/04 • stx.pdf

Type: OA, OB
Job: SMART MOTORS
Catalog number:

2B / STX4 / 1000MH277 / VSF-2B

Fig. Frame Electrical Module Finish Options Structural Option
See page 2 See page 3 See page 4-6 See page 7-9

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

Date: **Page: 1 of 9**

Specifications

600 to 1000 watt
Mogul Base Lamps

**FORWARD THROW
FLAT GLASS TEMPERED LENS**

Housing: One-piece die-cast, low copper (< 0.6% Cu) aluminum with integral cooling fins on top surfaces above the optical chamber and electrical compartment. A double-thick wall with gaskets is provided on the support arm mounting end. All hardware is stainless steel.

Lens Frame: One-piece die-cast, low copper (< 0.6% Cu) aluminum with a 1" minimum thickness around the gasket flange for rigidity. Integral hinges with stainless steel pins provide no-tool mounting and removal from the housing. Two stainless steel thumb-latches are recessed into the front corners, concealed from normal view. Lens frame seals against the housing by a one-piece extruded silicone gasket with vulcanized end closure. Clear 1/8" thick tempered flat glass is retained in the frame by eight clips with full silicone gasketing around the perimeter.

Reflector Module: Specular Alzak® optical segments are rigidly mounted in a die-cast, low copper (< 0.6% Cu) aluminum frame which attaches to the housing as a one-piece module with captive stainless steel screws. Reflector module is field-rotatable in 90° increments. All HPS and MH lamps use 5KV mogul base sockets. Lamp is braced with a lamp vibration clamp. All sockets are factory prewired with a quick-disconnect plug for the ballast module, with wires passing through a silicone gasket in the housing barrier wall. Four light distributions are available and interchangeable within the same housing size.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to the housing with no-tool hinges and latches, accessible by opening the lens frame. All ballasts are high power factor with starting temperatures of -40°F for HPS and -20°F for MH lamp modes.

Support Arms: One-piece extruded aluminum with internal bolt guides. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. For mounting to round poles, arm is circular cut for precise mating to the pole diameter.

Finish: Super TGIC thioester polyester powder coat paint, 2.5 mil nominal thickness, applied over a Titanated Zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings		
UL cUL 1598	G Vibration ¹	25C Ambient
IP66 Rated	CE	ISO 9001:2000
FCO Full Cut OIP (See Class Lens Chart)		

¹SK Cycle Tested
Dark Sky Legislation Compliant

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revision 04/01/04 • stx.pdf

Type: OA, OB
Job: SMART MOTORS
Page: 2 of 9

Standard Features

Mounting
3Y is available for round poles only.

Plan View:

EPA: 3.5 7.0 4.5 8.0 8.0 8.5 -
Cat. No.: 1A 2B 2L 3T 3Y 4C 1W

Horizontal Lamp

Light Distribution: Type II Full Cutoff STX2, Type III Full Cutoff STX3, Type IV Forward Throw Full Cutoff STX4, Type V Square Full Cutoff STX5

Figure
Cat. No. designates STX fixture and light distribution. See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.

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revision 04/01/04 • stx.pdf

Type: OA, OB
Job: SMART MOTORS
Page: 3 of 9

Standard Features

Electrical Module
HPS = High Pressure Sodium
MH = Metal Halide
PMH = Pulse Start Metal Halide

Lamp T-16, Clear
Socket Mogul Base
ANSI Ballast Type S-106

Lamp Line Watts Type Volts
1000 PMH 277

Cat. Nos. for Electrical Modules available:

<input type="checkbox"/> 600HPS120	<input type="checkbox"/> 750HPS120	<input type="checkbox"/> 1000HPS120
<input type="checkbox"/> 600HPS208	<input type="checkbox"/> 750HPS208	<input type="checkbox"/> 1000HPS208
<input type="checkbox"/> 600HPS240	<input type="checkbox"/> 750HPS240	<input type="checkbox"/> 1000HPS240
<input type="checkbox"/> 600HPS277	<input type="checkbox"/> 750HPS277	<input type="checkbox"/> 1000HPS277
<input type="checkbox"/> 600HPS347	<input type="checkbox"/> 750HPS347	<input type="checkbox"/> 1000HPS347
<input type="checkbox"/> 600HPS480	<input type="checkbox"/> 750HPS480	<input type="checkbox"/> 1000HPS480

Lamp	T-16, Clear	BT-37, Clear	E-25, Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast Type	S-106	S-111	S-52

<input type="checkbox"/> 1000PMH120	<input type="checkbox"/> 750PMH120	<input type="checkbox"/> 1000PMH120
<input type="checkbox"/> 1000PMH208	<input type="checkbox"/> 750PMH208	<input type="checkbox"/> 1000PMH208
<input type="checkbox"/> 1000PMH240	<input type="checkbox"/> 750PMH240	<input type="checkbox"/> 1000PMH240
<input checked="" type="checkbox"/> 1000PMH277	<input type="checkbox"/> 750PMH277	<input type="checkbox"/> 1000PMH277
<input type="checkbox"/> 1000PMH347	<input type="checkbox"/> 750PMH347	<input type="checkbox"/> 1000PMH347
<input type="checkbox"/> 1000PMH480	<input type="checkbox"/> 750PMH480	<input type="checkbox"/> 1000PMH480

Lamp	BT-37, Clear	BT-37, Clear	BT-37, Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast Type	M-47	M-149	M-141

Finish
Super TGIC powder coat paint over a Titanated Zirconium conversion coating.

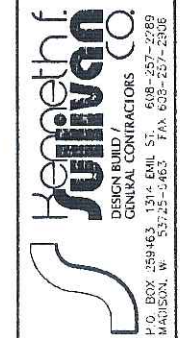
Color: Black Dark Bronze Light Gray Platinum Silver White Custom Colors¹
Cat. No.: BL-P DB-P LG-P PS-P WH-P CC-P

¹Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description:

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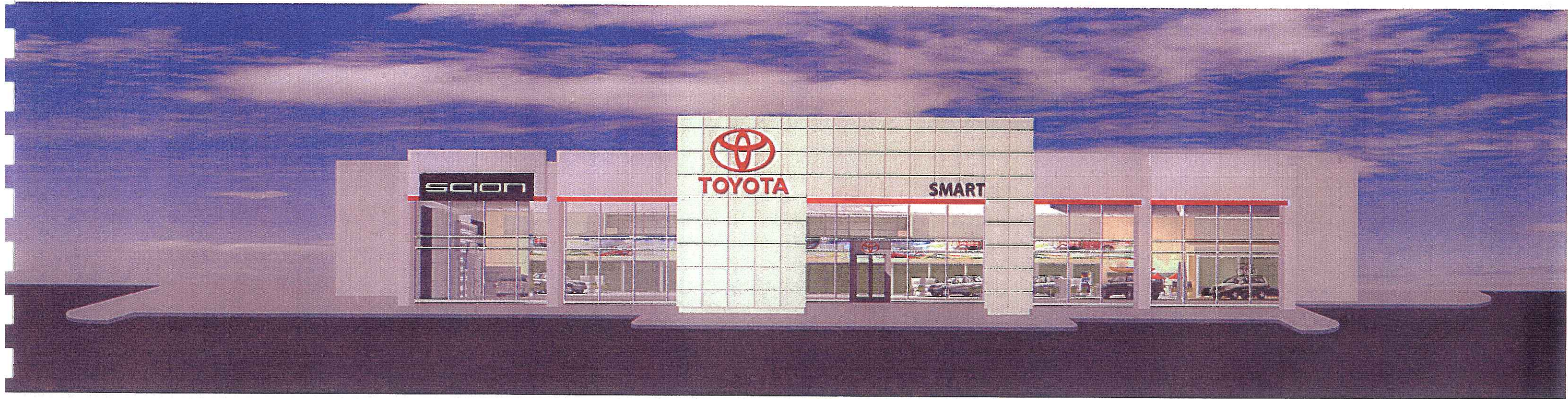


Smart Motors
New Toyota Facility
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Madison, WI 53719



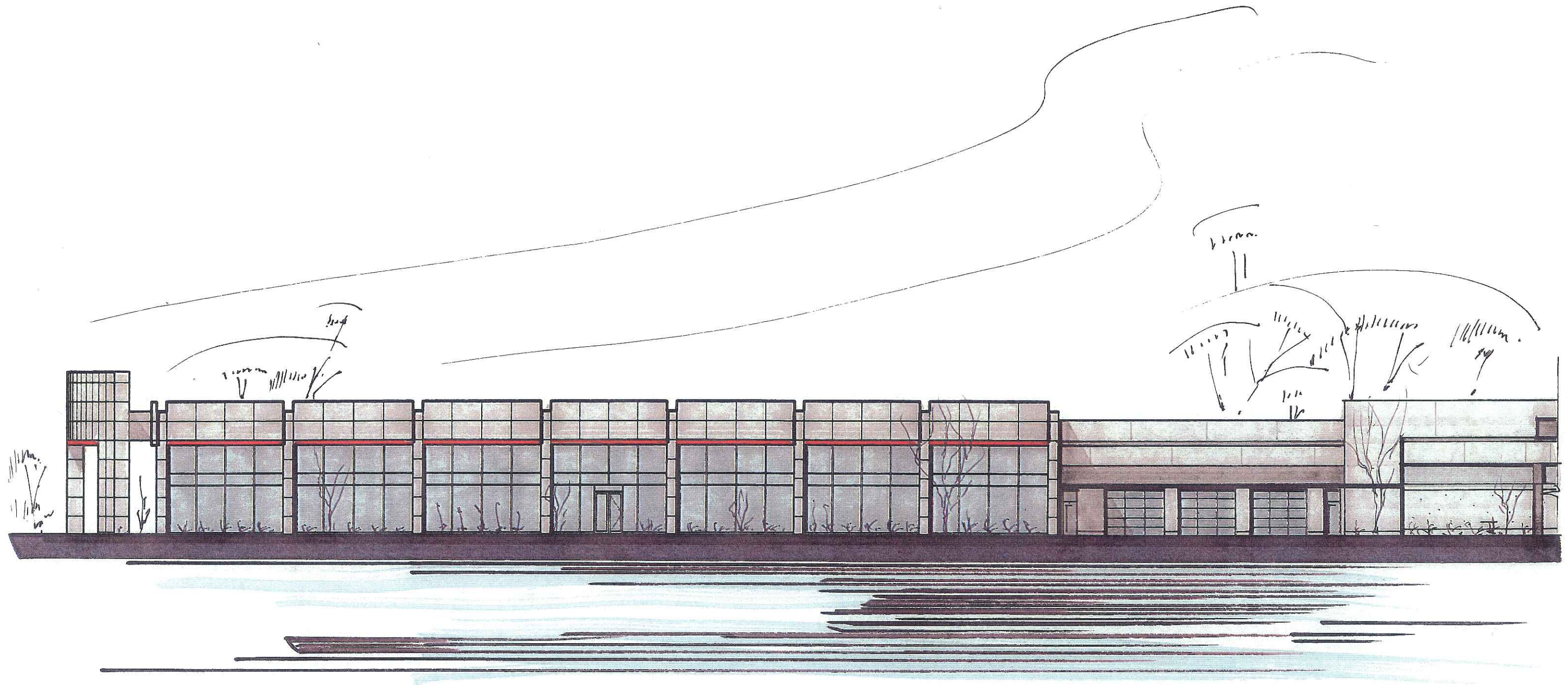
DRAWING NAME: FIXTURES
DRAWN BY: JIMT
DATE: 7-10-06

E-1
PROJECT #



EAST ELEVATION - SMART MOTORS - MADISON

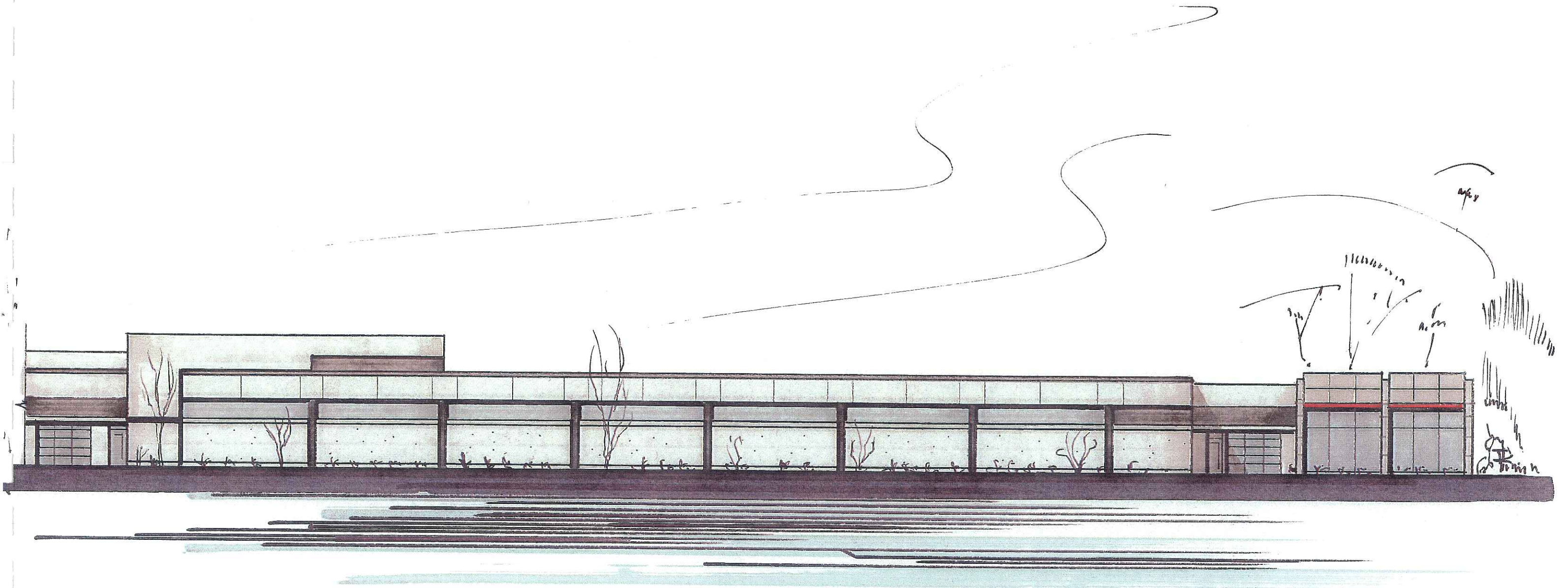
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PARTIAL NORTH ELEVATION - SMART MOTORS - MADISON

SCALE 1" = 20'

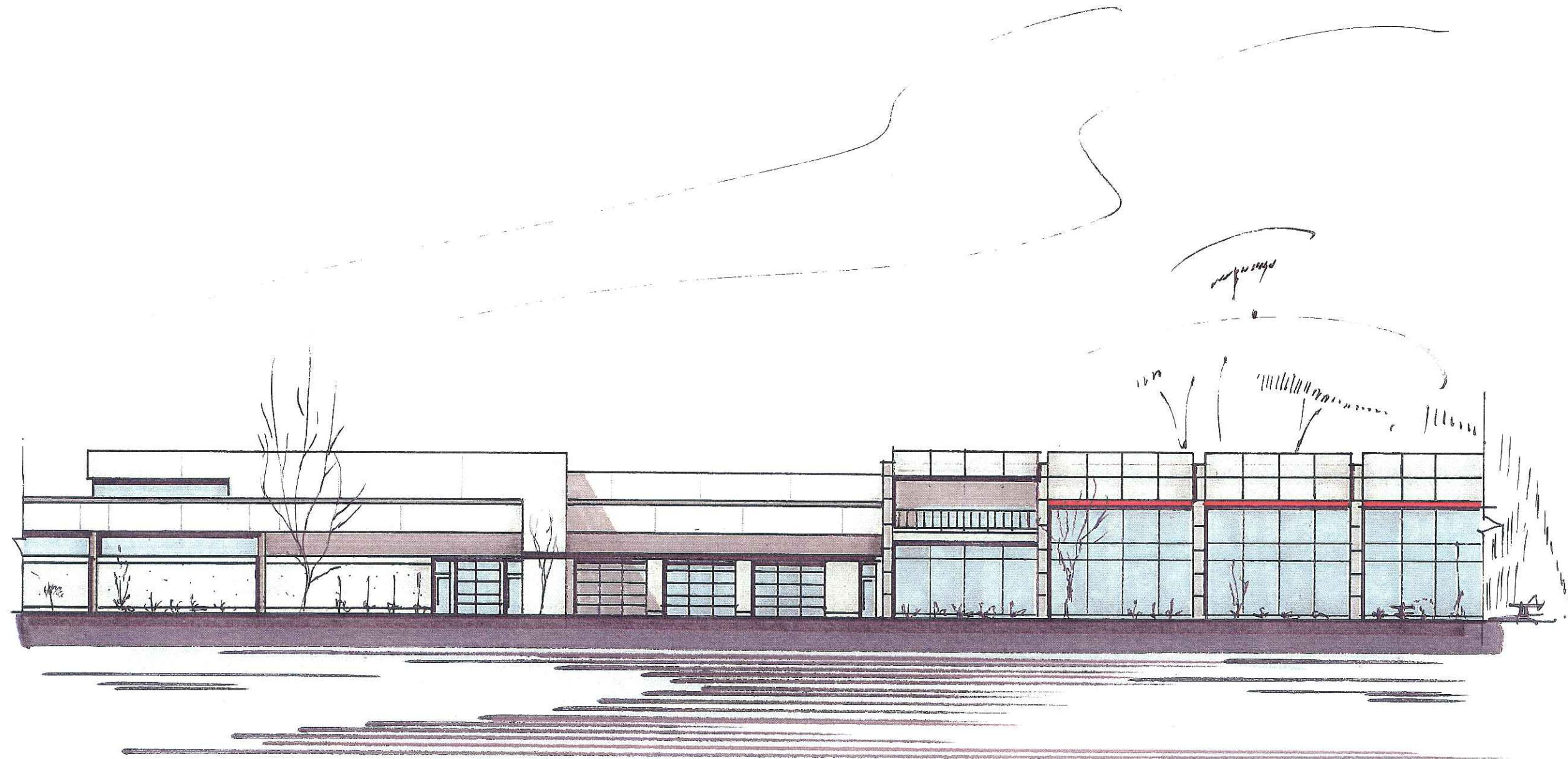
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PARTIAL NORTH ELEVATION - SMART MOTORS - MADISON

SCALE 1" = 20'

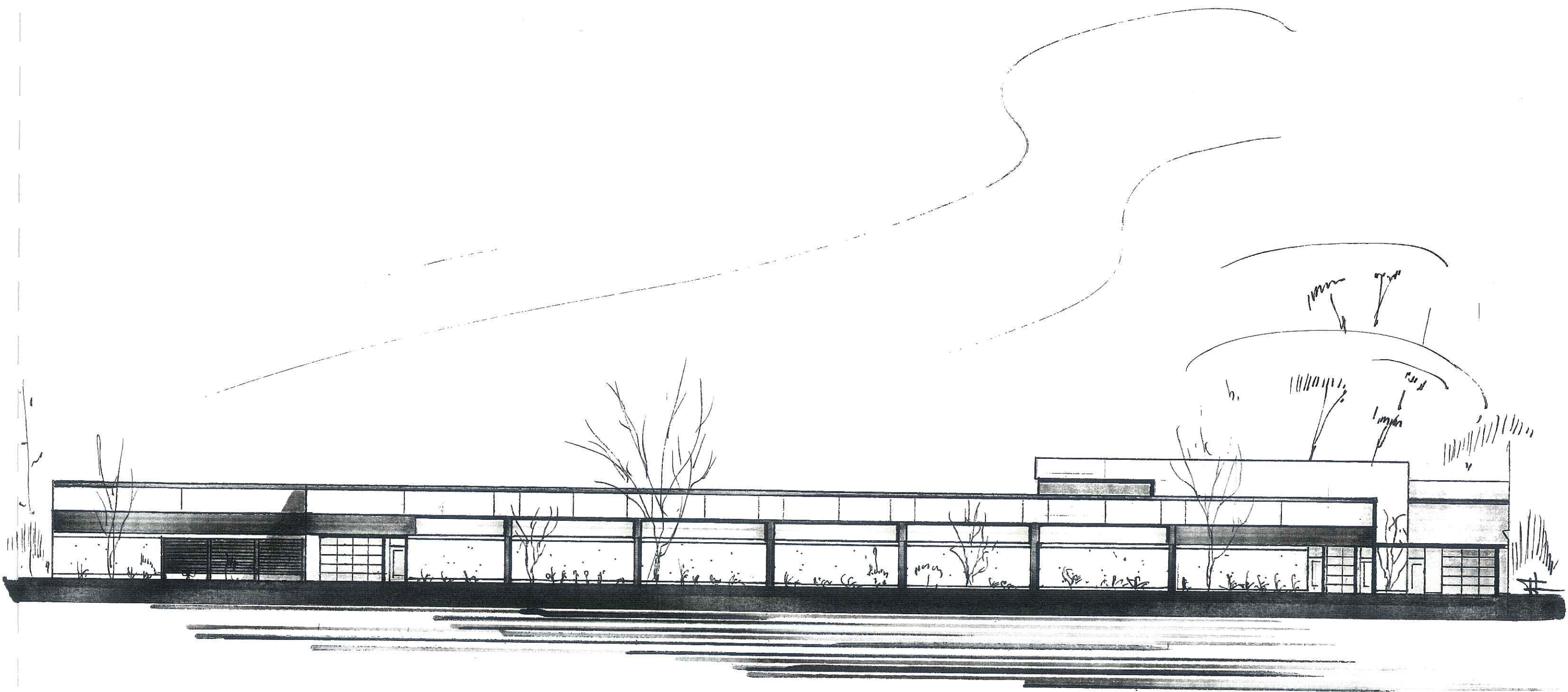
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PARTIAL SOUTH ELEVATION - **SMART MOTORS** - MADISON

SCALE 1" = 20'

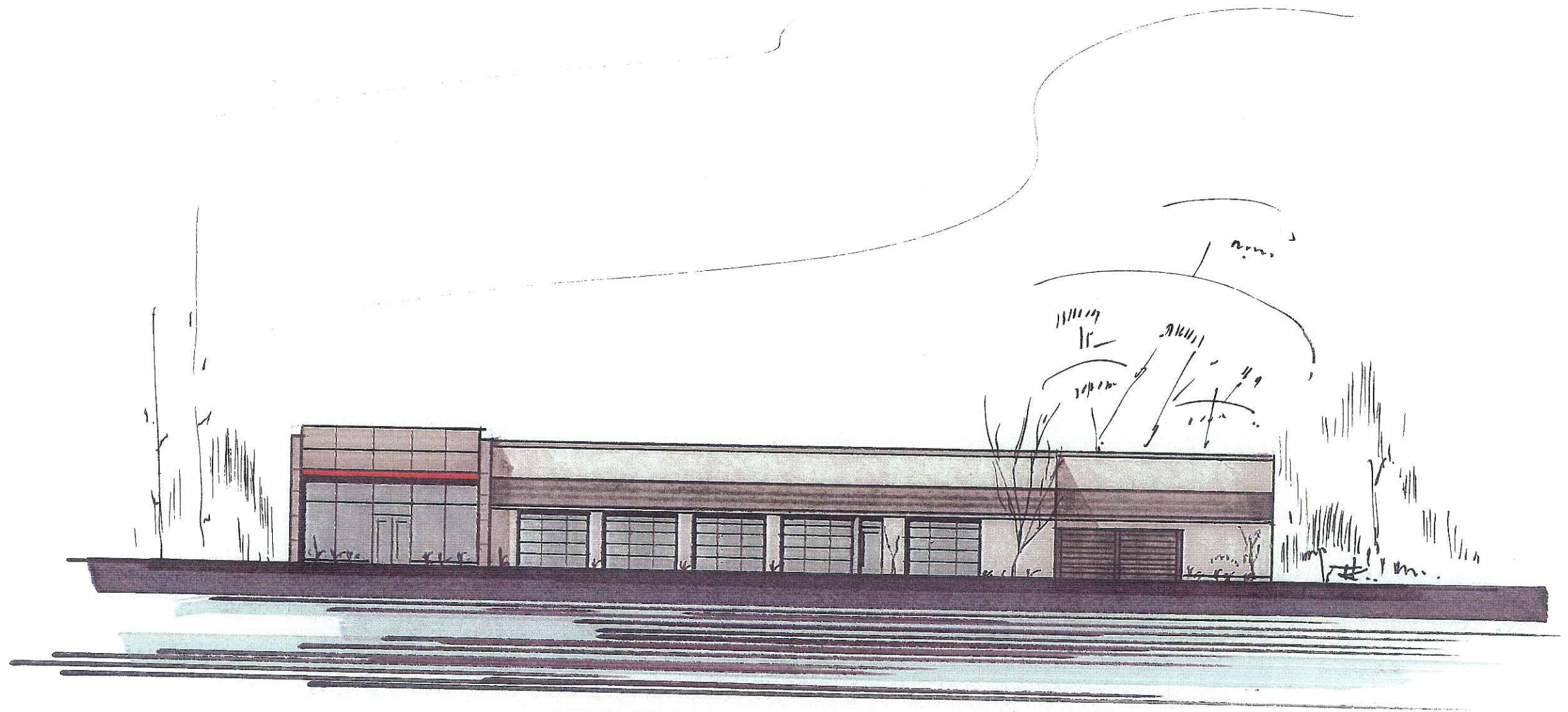
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PARTIAL SOUTH ELEVATION - SMART MOTORS - MADISON

SCALE 1" = 20'

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WEST ELEVATION - SMART MOTORS - MADISON

SCALE 1" = 20'

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