



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

TRANSMITTAL LETTER

Date: September 13, 2006 To: City of Madison
215 Martin Luther King Jr.; Room LL-100
Madison, WI 53701-2985
Re: Urban Design Commission Application Attn:
Baer Insurance Building
(Blackhawk Church Town Center Plat)
Madison, WI
From: Alex King

These are transmitted herein:

<u>Copies</u>	<u>Date</u>	<u>Description</u>
1	9/13/06	Application for Urban Design Commission Review and Approval
1	9/13/06	Letter of Intent
1	9/13/06	Zoning Text
14	9/13/06	Plan Sets: 11x17
14	9/13/06	Conceptual Blackhawk Church Town Center Site Development Plan (included in Plan Set)
14	9/13/06	Site Lighting Cut Sheets
1	9/13/06	CD-Rom containing PDF files of all enclosed documents

Comments:

Enclosed is the Application for Urban Design Commission Review and Approval for the above-referenced project, for the Commission's Initial Approval and/or Recommendation.

Feel free to call at 257-2289 or email at alex@kfsullivan.com if you have any questions or concerns.

Cordially,

Alex King

cc: file

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

AGENDA ITEM # _____
Project # _____

DATE SUBMITTED: _____	Action Requested
UDC MEETING DATE: _____	<input type="checkbox"/> Informational Presentation
	<input type="checkbox"/> Initial Approval and/or Recommendation
	<input type="checkbox"/> Final Approval and/or Recommendation

PROJECT ADDRESS: 9701 BRADER WAY

ALDERMANIC DISTRICT: _____

OWNER/DEVELOPER (Partners and/or Principals) ARCHITECT/DESIGNER/OR AGENT:
KEITH KETTERHENRY TOM KNOOP
ALEX KING

CONTACT PERSON: ALEX KING / K.F. SULLIVAN CO.
Address: 1314 EMIL ST.
MADISON, WI 53713
Phone: 257-2289
Fax: 257-2906
E-mail address: alex@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 40,000 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)

Where fees are required (as noted above) they apply with the first submittal for either initial or final approval of a project.



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September 13, 2006

LETTER OF INTENT

**Baer Insurance Building
Lot / Parcel 2 of Blackhawk Church Town Center Plat
Madison, WI**

Dear Urban Design Commission Members,

Following is a description of the intent of this project:

Existing Conditions and Uses of the Property

The previous land use for the site is agricultural. This project is Lot / Parcel 2 of the Blackhawk Church Town Center Plat, which is regulated by a General Development Plan / Specific Implementation Plan (GDP / SIP). This project is within District II of the Town Center development, which permits only Institutional, Office and Residential uses. This project's lot / parcel is specifically permitted to have Office and Retail uses. Lot / Parcel 2 is intended for Phase I development of the Town Center.

Proposed Use of the Property

Three (3) story office building with approximately 15,000 s.f. per floor. The building will be positioned in the northwest corner of the site, in conformance with the Conceptual Site Development Plan of the Blackhawk Church Town Center. Access to the building will be from its inside corner on the southeast side, facing the surface parking area. One (1) level of underground parking will be provided, which will be partially exposed along Veritas Drive, due to the natural downward slope of the road and the property. The site will try to maintain as much of the natural fall of the existing grade as possible. All project storm water will be channeled into the Town Center's shared detention pond, directly east of the project site. Site lighting will be the same or similar to those used by the Blackhawk Church.

Development Schedule for the Project

Construction is currently scheduled to begin by January 2007 and will take approximately 6 months. Landscaping will be installed prior to project completion; installer is to be determined.

Names of Persons Involved

Owner:

Keith Ketterhenry

Architect & General Contractor:

K.F. Sullivan Co. (Tom Knoop, Fred Schuhmacher and Alex King)

Civil Engineer:

D'Onofrio Kottke and Associates, Inc. (Bill Suick and Bruce Hollar)

Landscape Architect:

LJ Geer Design (Lisa Geer)

Site Lighting:

Nickles Electric (Mike Pohlman and Les Portz)

www.KFSullivan.com

General Contractor since 1937

Design-Build since 1965

Types of Businesses

Office

Number of Employees

30 employees on first floor. Second and third floor tenants to be determined.

Hours of Operation

Normal Office hours

Square Footage / Acreage of the Site

81,068 square feet / 1.86 acres

Number of Dwelling Units

none

Sale or Rental Price Range for Dwelling Units

n/a

Gross Square Footage of Building(s)

46,062 s.f. (15,354 s.f. per floor x 3 floors). This is nearly 14,000 s.f. less than the allowed gross building area for the site. This reduction in the actual building area will reduce the anticipated weekday trip generation from 660.6 trips to 507.1 trips. This reduction could benefit the anticipated traffic congestion at Mineral Point Road and Veritas Drive (previously named Ritchie Street) if Phase 1 is fully developed prior to Brader Way's connection to Soutyh Point Road; see page 23 of KL Engineering's July 2005 report for the Town Center).

The project's only vehicular access to the site, a proposed curb cut on Brader Way, may also help reduce possible congestion from traffic entering north onto Veritas Drive from Mineral Point Road.

Number of Parking Stalls

175 (includes six total accessible stalls, including one accessible van stall). Of the 175 stalls, 136 (including five accessible) are exterior / surface and 39 (including one accessible stall) are in the underground garage.

Trash Removal & Storage, Snow Removal and Maintenance Equipment

Trash storage will be located in a secure enclosure at the entrance to the parking garage (see "Screened Trash Dumpster" on Site Plan SP-1). The trash enclosure might be covered, to be used as an exterior patio by the first floor tenant.

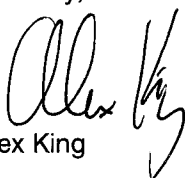
Snow Removal and Maintenance services will be contracted out. No equipment is intended to be stored on-site.

Utility meters are intended to be screened, pending utility company approval.

If you should require any additional information, or have any questions or concerns, please contact me at (608) 257-2289 or email me at alex@kfsullivan.com.

Thank you.

Cordially,


Alex King



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Street Address – 1314 Emil Street – Madison, WI 53713
Telephone – (608) 257-2289 Fax – (608) 257-2906

September 13, 2006

ZONING TEXT

Baer Insurance Building
9701 Brader Way
Verona, Wisconsin 53593
(Lot / Parcel 2 of Blackhawk Church Town Center Plat in Madison, WI)

Legal Description:

The lands subject to this planned unit development shall include those described in the attached legal description.
(Site location is Northwest corner of Mineral Point Road and Veritas Drive, on south side of Brader Way.)

A. Statement of Purpose:

This Zoning District

District II: Office / Employment

Comparable Zoning District: O-3 / O-4

Building Sites: 1, 2, 9, 11, 12

The Office / Employment District creates a pedestrian oriented business district ranging from two story office uses to multiple story campus settings.

B. Permitted Uses:

This Zoning District

1. Any permitted use allowed in the O-4 Office District
2. First Floor Retail
3. Outdoor eating and recreation areas, when accessory to another use
4. Medical, Dental, and Optical Clinics

This Lot

Lot 2

5. Office (1st / 2nd / 3rd floor)
6. Retail (1st floor only)
7. 30,000 – 60,000 square feet total
 - a. 15,000-25,000 square foot footprint

C. Lot Area:

This Zoning District

Minimum Lot Area 1 acre

This Lot

Lot Size: 1.86 Acres (81,068 S.F.)

D. Floor Area Ratio:

1. Maximum floor area ratio permitted is:

This Zoning District

0.75

2. Maximum building height shall be:
2-3 stories

E. Yard Requirements:

This Zoning District

Minimum Front Yard Setback	10' feet
Minimum Side Yard Setback	varies (will be set in SIP)
Minimum Rear Yard Setback	varies (will be set in SIP)
Minimum Building Separation	varies (will be set in SIP)
Maximum Impervious Surface Ratio	varies (will be set in SIP)
Maximum Floor Area Ratio	varies (will be set in SIP)
Off-Street Parking and Loading	varies (will be set in SIP)

This Lot

Brader Way:	10-20'
Veritas Drive:	10-15'
Mineral Point:	40' Minimum
East Property Line:	20' Minimum

Building Envelope, This Lot:

Brader Way / Veritas Drive

Building placement must engage intersection corner with a majority of the building fronting directly onto Veritas Drive.

F. Landscaping:

Site Landscaping will be provided as shown on the approved plans.

G. Accessory Off-Street parking & Loading:

Accessory off-street parking and loading will be provided as shown on the approved plans.

Approximate Parking Configuration, This Lot:

1. Surface Parking: 3-4 stalls/1,000 square feet office
 - (based on 46,032 gross s.f., 3/1000 = 138 stalls)
 - (based on 46,032 gross s.f., 4/1000 = 184 stalls)3-4 stalls/1,000 square feet retail
100-125 parking stalls
2. Underground Parking: Encouraged
3. Shared Parking: No

H. Lighting:

Site Lighting will be provided as shown on the approved plans.

I. Signage:

Signage will be allowed as per Chapter 31 of the Madison General Ordinances, as compared to the _____ district or signage will be provided as approved on the recorded plans.

J. Family Definition:

The family definition of this PUD-SIP shall coincide with the definition given in Chapter 28.03(2) of the Madison General Ordinances for the _____ zoning district.

K. Alterations and Revisions:

No Alteration or revision of this planned unit development shall be permitted unless approved by the City Plan Commission, however, the Zoning Administrator may issue permits for minor alteration or additions which are approved by the Director of Planning and Development and the alderperson of the district and are compatible with the concept approved by the City Plan Commission.

Site Notes:*This Zoning District*

1. Site 2, along with Site 1, forms the western gateway from Mineral Point Road. Architectural character, massing, and materials should be designed to take advantage of the increased exposure and high profile site.
2. Infiltration swale/rain garden along southern boundary serves as pre-treatment for runoff from Site 1, Site 2, and Site 12 prior to release into the OL1 stormwater management facility.
3. Usable street facing entrances are encouraged

General Regulations*This Zoning District*

1. All business, servicing or processing, except off-street parking, off-street loading, and outside storage areas as regulated hereinafter, shall be conducted within completely enclosed buildings.

Baer Insurance Building

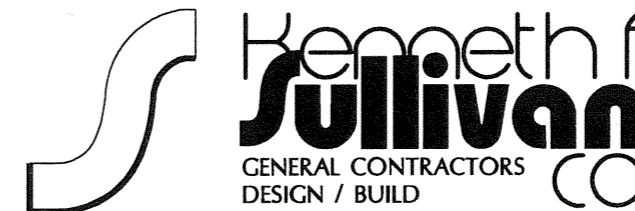
9701 Brader Way
Verona, Wisconsin 53593
(Blackhawk Church Town Center Plat, Lot/Parcel 2)
(Madison, Wisconsin)

Date: September 13, 2006

Sheet Index

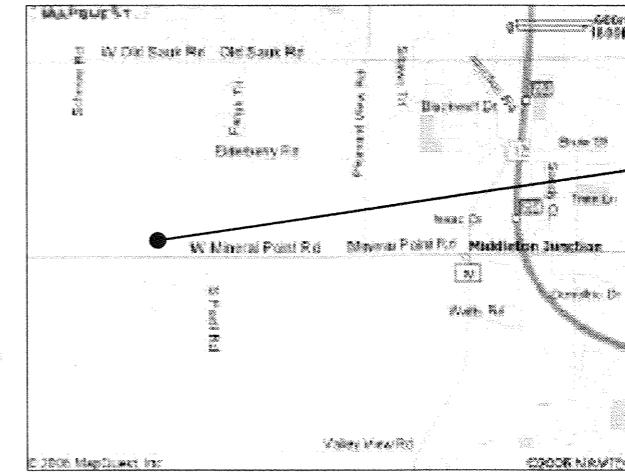
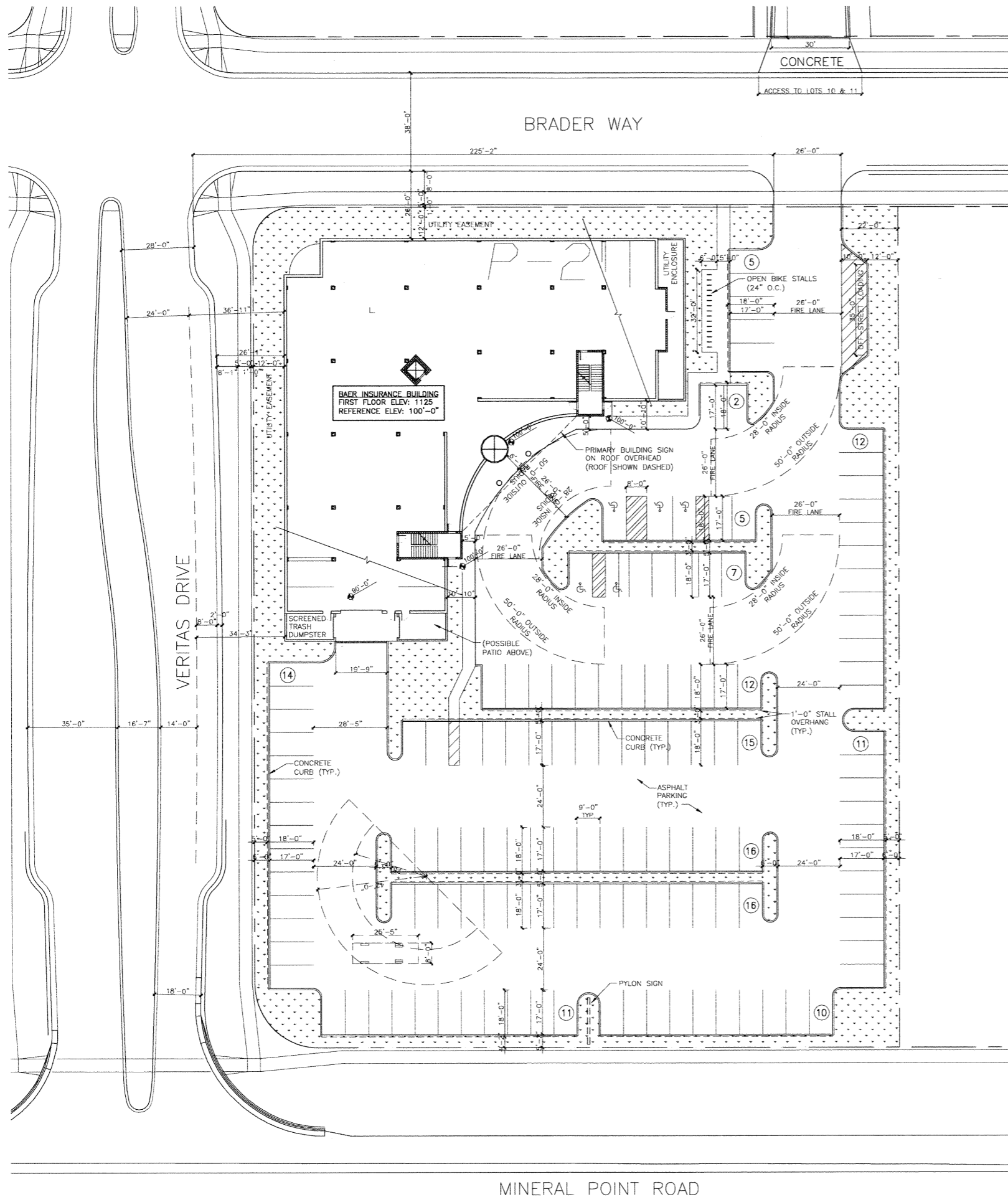
SP1	SITE PLAN
C1.0	SITE SURVEY
C1.1	GRADING & EROSION CONTROL PLAN
C1.2	SITE UTILITY PLAN
LS1	LANDSCAPE PLAN
E1	SITE LIGHTING PLAN
A101	GARAGE FLOOR PLAN
A102	FIRST FLOOR PLAN
A103	SECOND FLOOR PLAN
A104	THIRD FLOOR PLAN
A201	SOUTH & SOUTHEAST ELEVATIONS
A202	WEST ELEVATION

URBAN DESIGN COMMISSION
INITIAL APPROVAL

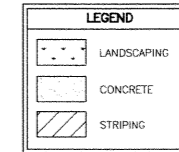


CONTACT: ALEX KING
1314 EMIL ST.
MADISON, WI 53713
TEL: (608) 257-2289
FAX: (608) 257-2906
WWW.KFSULLIVAN.COM

SHEET NO. T.0	DRAWING NAME: TITLE SHEET	SCALE: N.T.S. DRAWN BY: AK DATE:	Baer Insurance Building 9701 Brader Way Verona, Wisconsin 53593 (Blackhawk Church Town Center Plat, Parcel 2)



LOCATION MAP



LEGAL DESCRIPTION

PARCEL 2 OF THE "BLACKHAWK CHURCH TOWN CENTER PLAT", (LOCATED IN THE SE 1/4 OF THE SW 1/4 OF SECTION 21, T7N, R8E, CITY OF MADISON, DANE COUNTY, WISCONSIN)

SITE INFORMATION		
SITE ADDRESS:	NE CORNER MINERAL POINT ROAD & VERITAS DRIVE, MADISON, WI	
SITE ACREAGE:	1.86 AC (81,068 S.F.)	
FLOOR AREA RATIO:	0.19	
NO. OF BUILDING STORIES (ABOVE GRADE):	3	
BUILDING HEIGHT:	47'-0" ABOVE GRADE	
D.O.C. TYPE OF CONSTRUCTION (NEW) OR (ADDITION):	NEW	
USE OF PROPERTY:	B. PROFESSIONAL SERVICES	
CAPACITY OF RESTAURANT / PLACE OF ASSEMBLY:	N/A	
AREAS (GROSS SQUARE FEET)		
FIRST FLOOR (OFFICE)	15,354	
SECOND FLOOR (OFFICE)	15,354	
THIRD FLOOR (OFFICE)	15,354	
TOTAL BUILDING, EXCLUDING PARKING GARAGE	46,062	
# OF REQUIRED PARKING STALLS	S.F.	# STALLS
OFFICE: 1 STALL PER 300 SF GROSS FLOOR AREA	46,062	154
TOTAL:		154
PARKING STALL TYPES (SIZE: 9'x18')		
H/C VAN ACCESSIBLE	REQUIRED	PROPOSED
H/C ACCESSIBLE	1	1
STANDARD (SURFACE)	5	5
STANDARD (BASEMENT)	148	136
TOTAL	154	175
# OF BICYCLE STALLS		
AUTO	BIKE	
1 PER 10 REQ'D AUTO STALLS	154	15
OFF-STREET LOADING FACILITIES: 10'x35'		
1 FOR 10,000 SF TO 100,000 SF OF GROSS FLOOR AREA	REQUIRED	PROPOSED
	1	1

PLAN NORTH
1 SITE PLAN
SCALE: 1 : 20

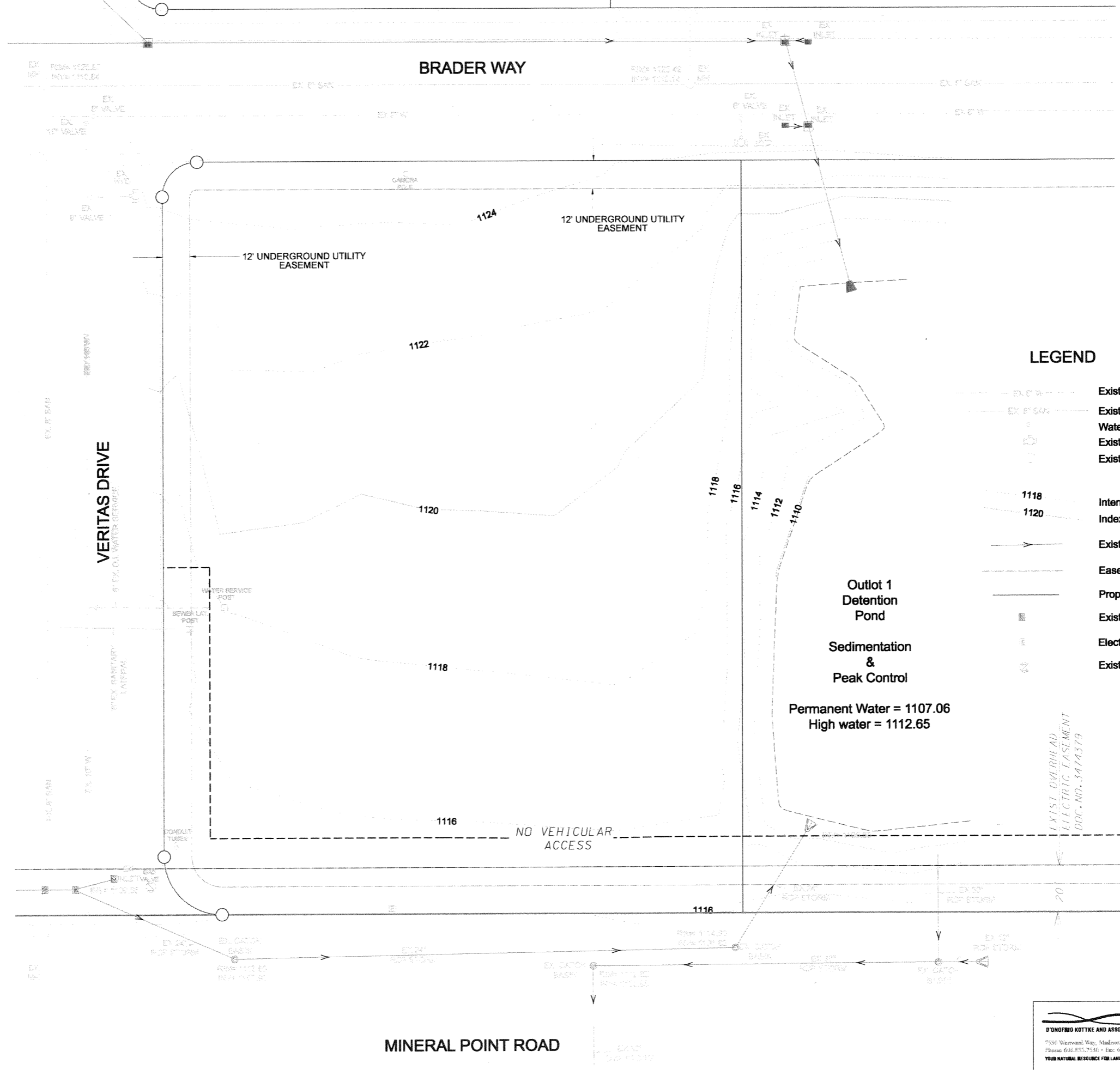
REVISIONS

Baer Insurance Building
9701 Brader Way
Verona, Wisconsin 53593
(Blackhawk Church Town Center Plat, Parcel 2)

Hemethin Sullivan & Co.
GENERAL CONTRACTORS
DESIGN / BUILD
1314 EMIL ST. MADISON, WI 53713 (608)257-2289

DRAWING NAME: SITE PLAN
SCALE: 1 : 20
DRAWN BY: AK
DATE:

SHEET NO. **SP1**
PROJ. # -



LEGEND

- Existing Water Main
- Existing Sanitary Sewer
- Water Valve
- Existing Hydrant
- Existing Manhole
- Intermediate Contour
- Index Contour
- Existing Storm Sewer
- Easement Line
- Property Line
- Existing Inlet
- Electric Transformer
- Existing Gas Valve

Outlet 1
Detention Pond
Sedimentation
&
Peak Control
Permanent Water = 1107.06
High water = 1112.65

EXIST OVERHEAD
ELECTRIC EASEMENT
DOC. NO. 3474379

D'ONOFRIO KOTTKE AND ASSOCIATES, INC.
7536 Watwood Way, Madison, WI 53717
Phone: 608.835.7530 • Fax: 608.833.1089
YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

REVISIONS

Baer Insurance Building
9701 BRADER WAY
VERONA, WISCONSIN 53593
BLACKHAWK CHURCH TOWN CENTER PLAT, PARCEL 2

Henneth f. Sullivan
GENERAL CONTRACTORS
DESIGN/BUILD
1314 E. MIL. ST. MADISON, WI 53703 608/257-7295

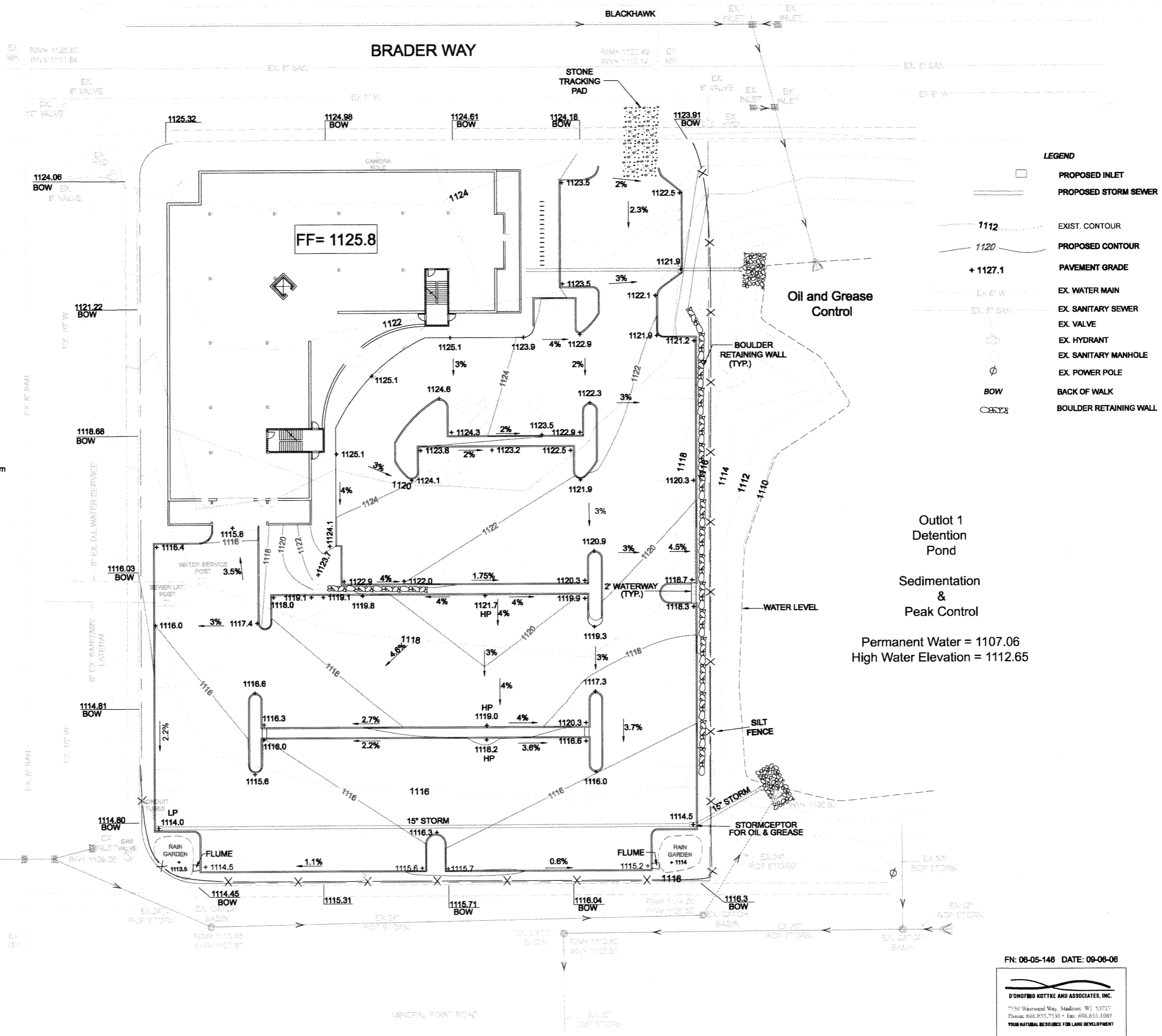
DRAWING NAME:
SITE SURVEY
SCALE: 1" = 70'
DRAWN BY: RPI
DATE: 06/06/06

C 1.0

SITE GRADING AND EROSION CONTROL NOTES

- 1) Pavement grades and parking lot slopes have been rounded off to the nearest tenth on the Site Grading Plan.
- 2) 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.
- 3) Stone tracking pad shall be installed at the designated locations 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. Entrance shall be maintained in a condition which will prevent tracking of mud onto public right-of-way.
- 4) Silt fence shall be installed at the start of site grading and maintained until the site has been stabilized.
- 5) Area disturbed within any street right-of-way shall be restored with 4" topsoil, fertilizer, seed, and mulch.
- 6) Disturbed areas outside the street right-of-way shall be restored with seed, fertilizer and mulch or in accordance with an approved landscape plan.
- 7) Public streets and adjacent parking lots shall be cleaned daily as necessary.
- 8) 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.
- 9) 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.
- 10) The contractor shall install a Type D Inlet bag in all proposed storm sewer inlets receiving runoff.

VERITAS DRIVE



LEGEND

	PROPOSED INLET
	PROPOSED STORM SEWER
	EXIST. CONTOUR
	PROPOSED CONTOUR
	PAVEMENT GRADE
	EX. WATER MAIN
	EX. SANITARY SEWER
	EX. VALVE
	EX. HYDRANT
	EX. SANITARY MANHOLE
	EX. POWER POLE
	BACK OF WALK
	BOULDER RETAINING WALL

Outlet 1 Detention Pond
Sedimentation & Peak Control
Permanent Water = 1107.06
High Water Elevation = 1112.65

FN: 06-05-146 DATE: 09-06-06

D'ONOFIO KOTTKE AND ASSOCIATES, INC.
7530 Wisconsin Way, Madison, WI 53717
Phone: 608.835.7530 • Fax: 608.833.1089
YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

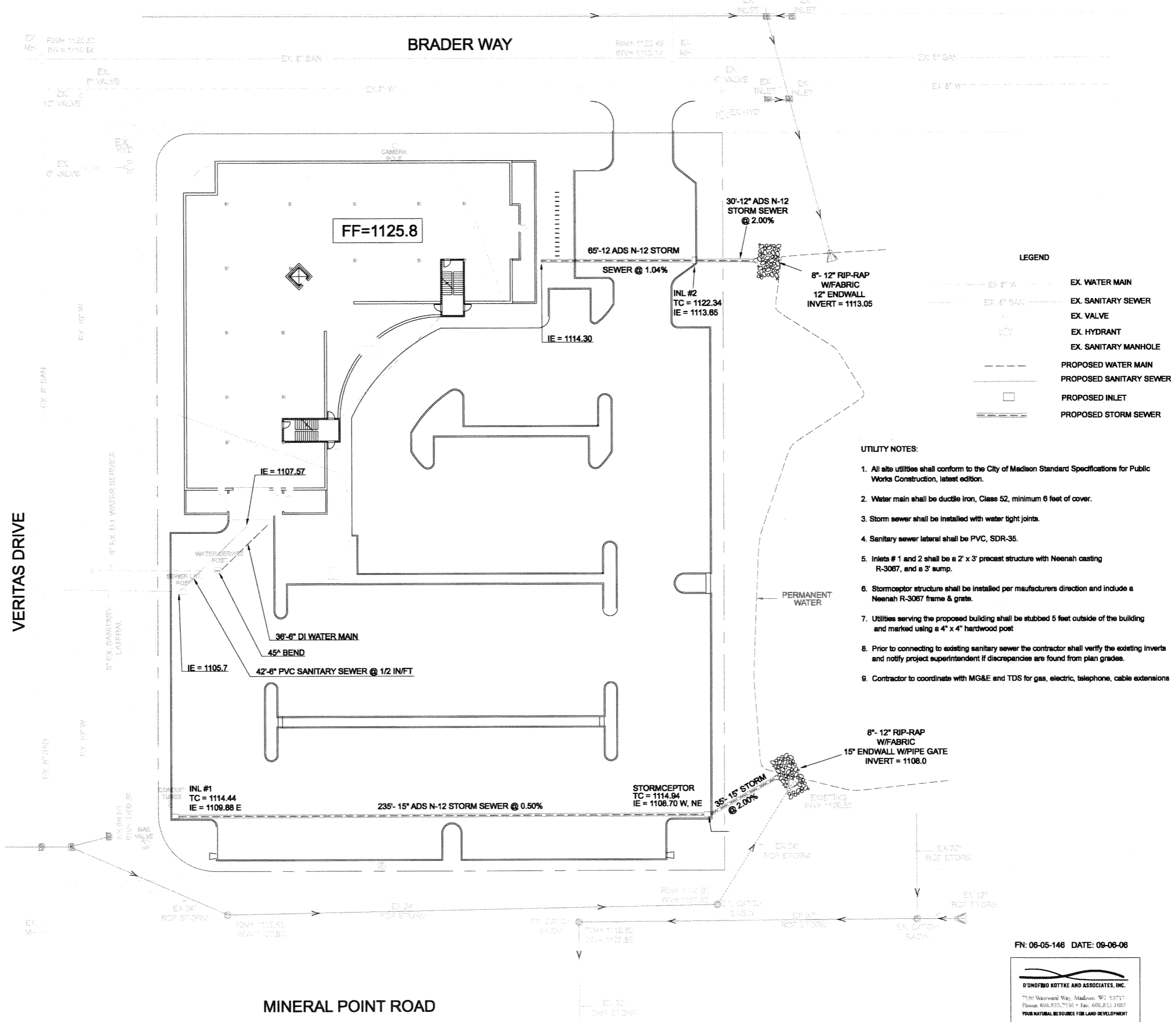
REVISIONS

Baer Insurance Building
9701 BRADER WAY
VERONA, WISCONSIN 53593
BLACKHAWK CHURCH TOWN CENTER PLAT, PARCEL 2

Sullivan
GENERAL CONTRACTORS
DESIGN/BUILD
1534 E. MILL ST. MADISON, WI 53713 (608) 257-2289

DRAWING NAME: GRADING & EROSION CONTROL PLAN
SCALE: 1" = 20'
DRAWN BY: RJH
DATE: 09-06-06

C 1.1

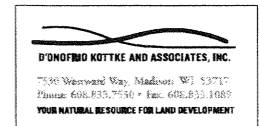


LEGEND

	EX. WATER MAIN
	EX. SANITARY SEWER
	EX. VALVE
	EX. HYDRANT
	EX. SANITARY MANHOLE
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER
	PROPOSED INLET
	PROPOSED STORM SEWER

- UTILITY NOTES:**
- All site utilities shall conform to the City of Madison Standard Specifications for Public Works Construction, latest edition.
 - Water main shall be ductile iron, Class 52, minimum 6 feet of cover.
 - Storm sewer shall be installed with water tight joints.
 - Sanitary sewer lateral shall be PVC, SDR-35.
 - Inlets # 1 and 2 shall be a 2' x 3' precast structure with Neenah casting R-3087, and a 3' sump.
 - Stormceptor structure shall be installed per manufacturers direction and include a Neenah R-3067 frame & grate.
 - Utilities serving the proposed building shall be stubbed 5 feet outside of the building and marked using a 4" x 4" hardwood post.
 - Prior to connecting to existing sanitary sewer the contractor shall verify the existing inverts and notify project superintendent if discrepancies are found from plan grades.
 - Contractor to coordinate with MG&E and TDS for gas, electric, telephone, cable extensions

FN: 06-05-146 DATE: 09-06-06



REVISIONS

Baer Insurance Building
 9701 BRADER WAY
 VERONA, WISCONSIN 53593
 BLACKHAWK CHURCH TOWN CENTER PLAT, PARCEL 2



DRAWING NAME: SITE UTILITY PLAN
 SCALE: 1" = 20'
 DRAWN BY: RAI
 DATE: 09-06-06

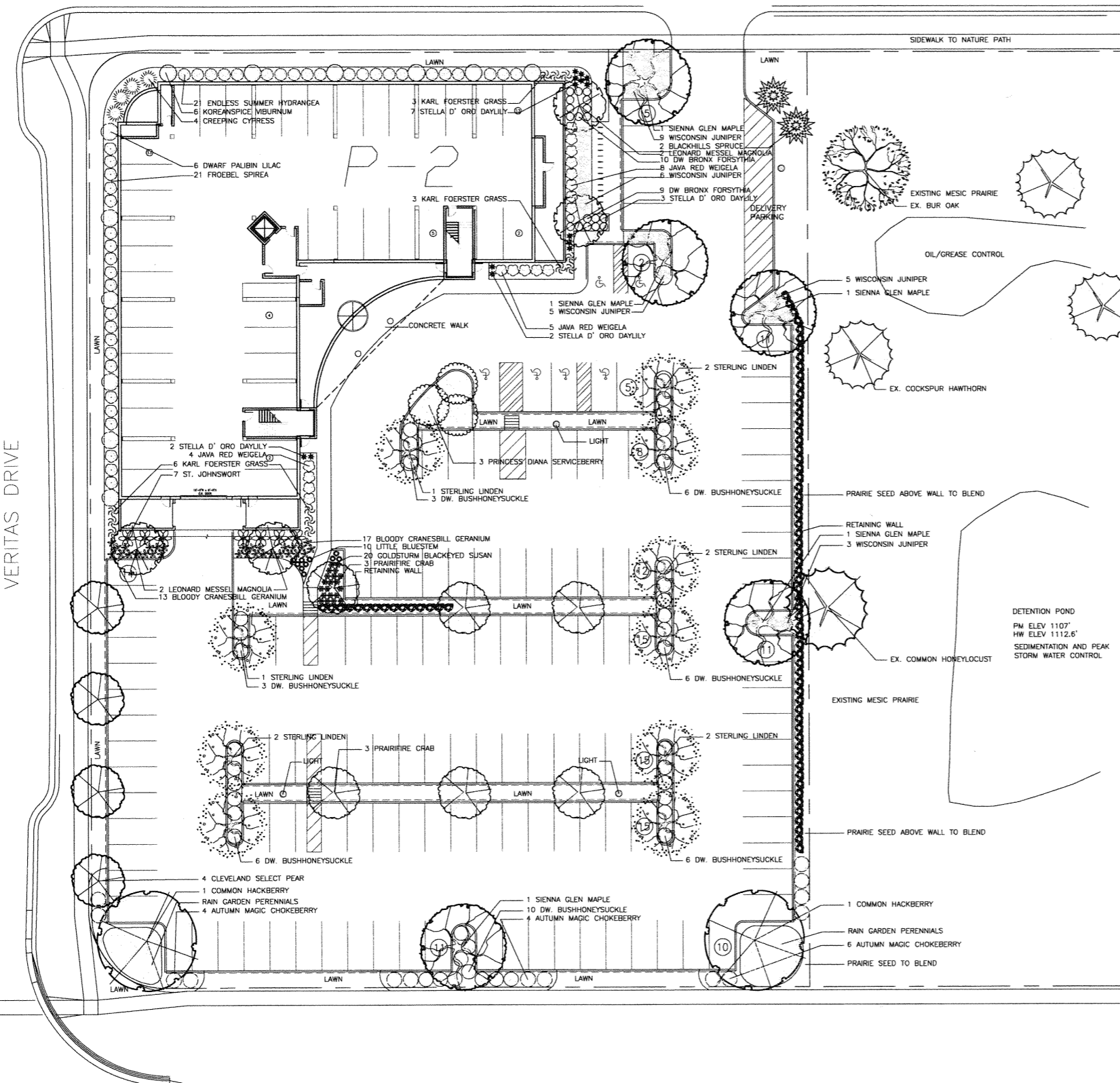
C1.2

BRADER WAY

VERITAS DRIVE

MINERAL POINT ROAD

SIDEWALK TO NATURE PATH

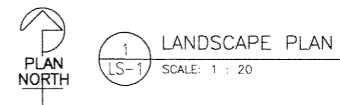
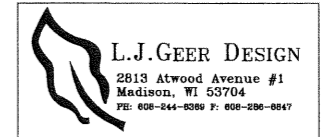


LANDSCAPE WORKSHEET			
NUMBER OF TREES REQUIRED			
NUMBER OF PARKING STALLS		132 STALLS	
NUMBER OF CANOPY SHADE TREES REQUIRED		10 TREES	
NUMBER OF CANOPY SHADE TREES PROVIDED			10 TREES
NUMBER OF LANDSCAPE POINTS REQUIRED			
NUMBER OF LANDSCAPE POINTS REQUIRED		583 POINTS	
POINTS REQUIRED FOR LOADING AREAS		75 POINTS	
TOTAL NUMBER OF POINTS REQUIRED		658 POINTS	
TABULATION OF POINTS AND CREDITS			
ELEMENT	POINT VALUE	QUANTITY	POINTS ACHIEVED
CANOPY TREE: 2"-2 1/2"	35	7	245
DECIDUOUS SHRUBS	2	74	148
EVERGREEN SHRUBS	3	22	66
DECORATIVE WALL OR FENCE	5	0	0
EVERGREEN TREES 3' HT.	15	2	30
SMALL TREE: 1 1/2"-2"	15	15	225
		SUBTOTALS	714
NUMBER OF LANDSCAPE POINTS PROVIDED			714 POINTS

LANDSCAPE LEGEND				
QTY	COMMON NAME	LATIN NAME	SIZE	ROOT
SHADE AND ORNAMENTAL TREES				
5	Sienna Glen Maple	Acer x freemanii 'Sienna'	2"-2 1/2"	Cal. B&B
10	Sterling Linden	Tilia tomentosa 'Sterling'	2"-2 1/2"	Cal. B&B
2	Common Hackberry	Celtis occidentalis 'Chicagoland'	2"-2 1/2"	Cal. B&B
3	Princess Diana Serviceberry	Amelanchier x grandiflora 'Pr.Diana'	8' Ht.	MiStem B&B
6	Prairifire Crab	Malus 'Prairifire'	1"-1 1/2"	Cal. B&B
4	Leonard Messel Magnolia	Magnolia x loebernei 'Leonard Messel'	1"-1 1/2"	Cal. B&B
4	Cleveland Select Pear	Pyrus calleryana 'Cleveland Select'	1"-1 1/2"	Cal. B&B
DECIDUOUS SHRUBS				
21	Endless Summer Hydrangea	Hydrangea macro 'Bailmer'	3 Gal.	Cont.
19	Dwarf Bronx Forsythia	Forsythia viridissima 'Bronxensis'	3 Gal.	Cont.
6	Koreanspice Viburnum	Viburnum coriolii	24" Ht.	B&B
6	Dw. Palibin Lilac	Syringa meyeri 'Palibin'	24" Ht.	B&B
21	Froebel Spirea	Spiraea japonica 'Froebelii'	3 Gal.	Cont.
17	Java Red Weigela	Weigela florida 'Java Red'	3 Gal.	Cont.
7	Kalm St. Johnswort	Hypericum kalmianum	3 Gal.	Cont.
10	Autumn Magic Chokeberry	Aronia melanocarpa 'Autumn Magic'	3 Gal.	Cont.
40	Dw. BushhoneySuckle	Diervilla lonicera	3 Gal.	Cont.
EVERGREEN TREES AND SHRUBS				
2	Black Hills Spruce	Picea glauca densata	5 Gal.	Ht. B&B
4	Creeping Cypress	Microbiota decussata	5 Gal.	Cont.
28	Wisconsin Juniper	Juniperus horizontalis 'Wisconsin'	5 Gal.	Cont.
PERENNIALS				
12	Karl Foerster Reed Grass	Calamagrostis acutiflora 'Karl F.'	1 Gal.	Cont.
14	Stella D' Oro Daylily	Hemerocallis 'Stella D' Oro'	1 Gal.	Cont.
30	Bloody Cranesbill Geranium	Geranium sanguinum	1 Gal.	Cont.
20	Goldstrum Blackeyed Susan	Rudbeckia fulgida 'Goldstrum'	1 Gal.	Cont.
10	Little Bluestem	Schizachyrium scoparium	1 Gal.	Cont.

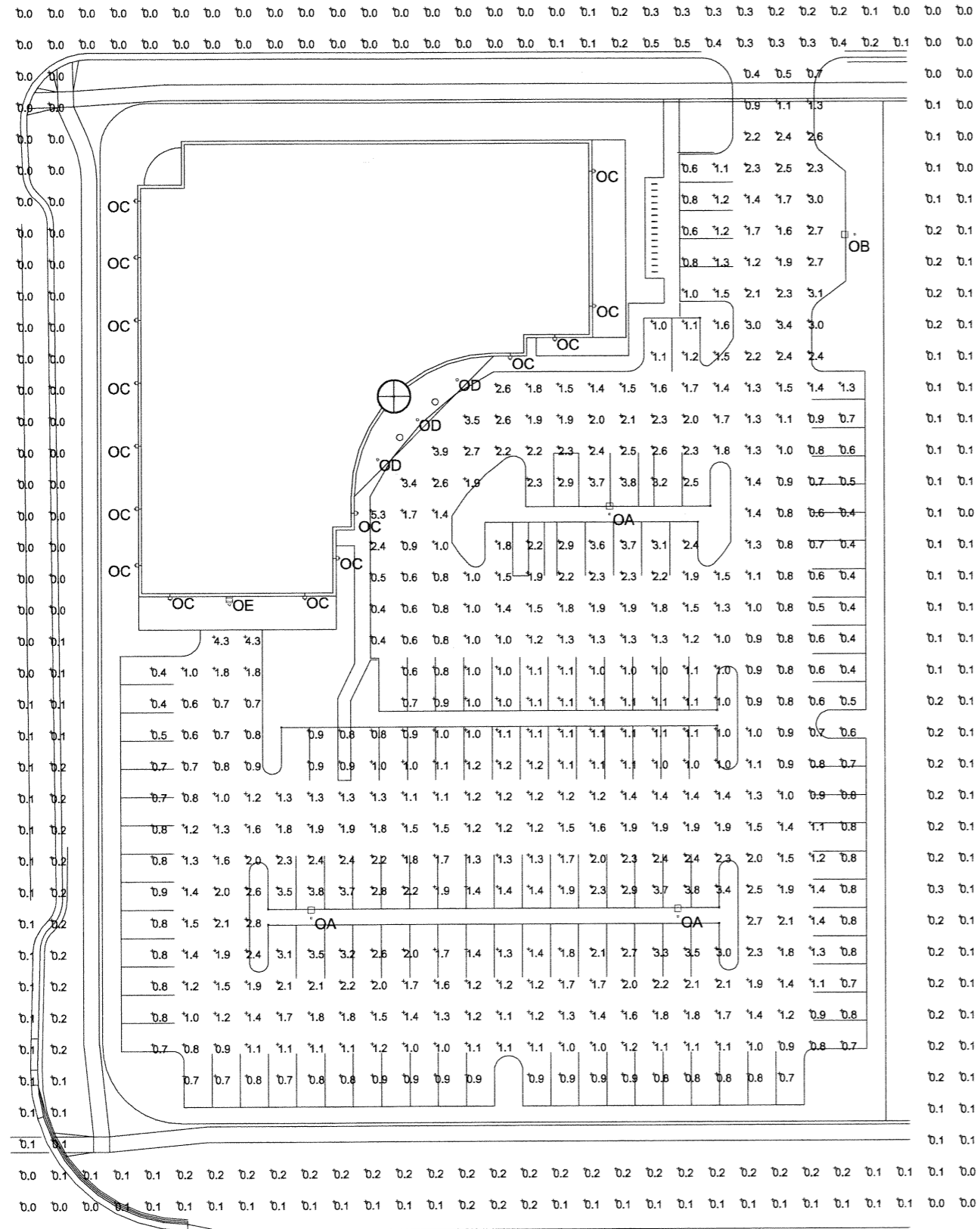
REVISIONS

Baer Insurance Building
 9701 Brader Way
 Verona, Wisconsin 53593
 (Blackhawk Church Town Center Plat, Parcel 2)



DRAWING NAME: LANDSCAPE PLAN
 SCALE: 1 : 20
 DRAWN BY: LG
 DATE: 09-08-08

SHEET NO. **LS1**
 PROJ. #



LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	OA	3	STM-400-MH-XX-5S	ARCHITECTURAL LUMINAIRE TYPE V 25' POLE	400-WATT MH CLEAR ED-28	STM40M5S.ies	36000	0.95	400
□	OB	1	STM-400-MH-XX-4S-XX-HS	ARCHITECTURAL LUMINAIRE TYPE IV HOUSE SIDE SHIELD 25' POLE	400 WATT MH CLEAR ED-28	STM40M4SHS.ies	36000	0.95	400
⌒	OC	15	ENC-70-MH-XX-MB-FXF	ARCHITECTURAL WALL LUMINAIRE 50/50 WALL GRAZING DISTRIBUTION	70 WATT MH CLEAR T-6	ENC70MFXF.ies	6600	0.95	70
○	OD	3	M6043S-10012P	10" DIA RECESSED	70 WATT MH MED ED17	M6043S-10012P-LU100_MED.ies	5000	0.95	70
⌒	OE	1	LACW407	12" AREA CUTOFF / FORWARD THROW	70 WATT ED17, CLEAR	LAC615.ies	5000	0.95	70

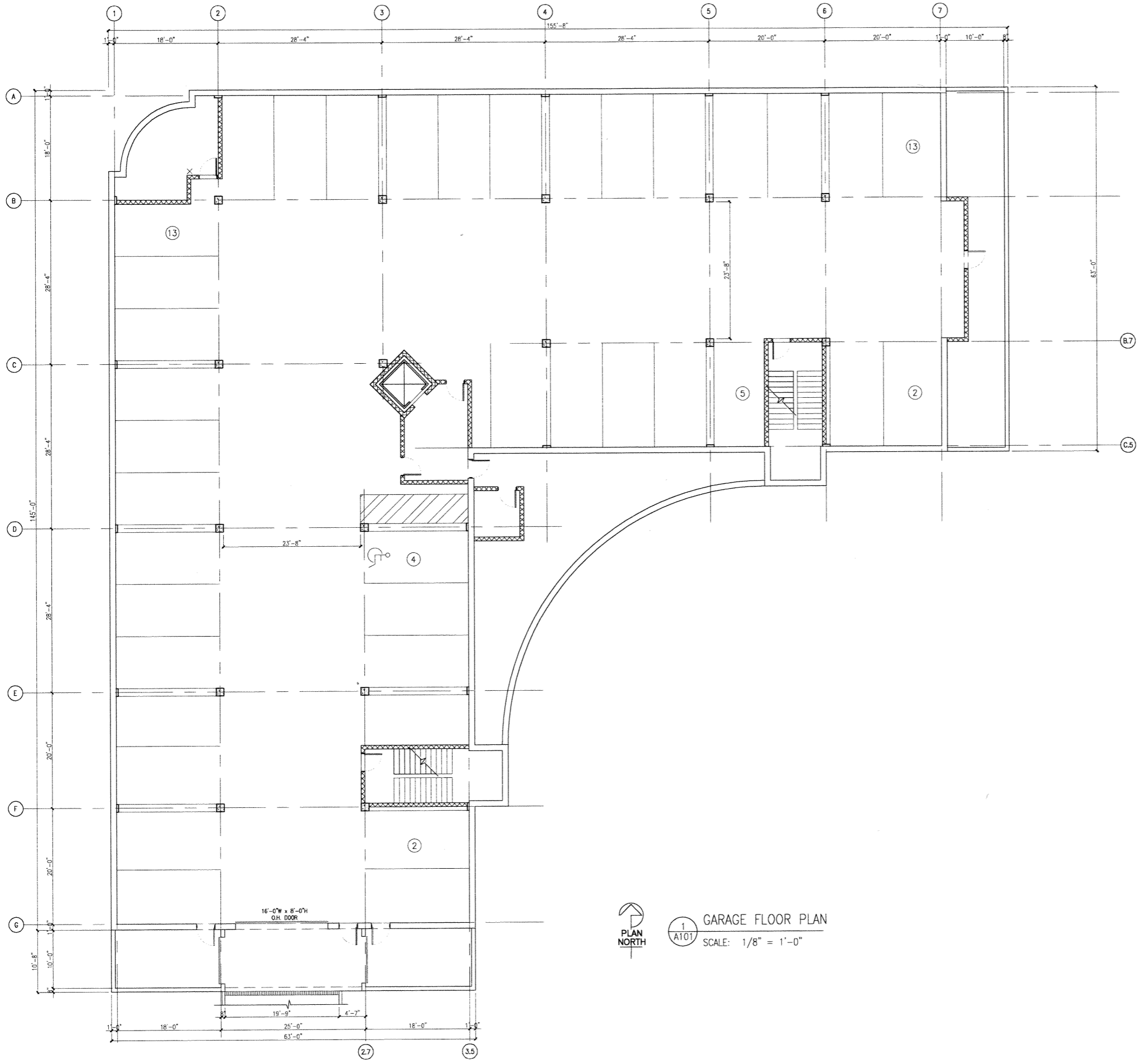
STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #2	+	0.1 fc	0.5 fc	0.0 fc	N / A	N / A
Calc Zone #1	+	1.5 fc	5.3 fc	0.4 fc	13.3:1	3.7:1


- ### NOTES
1. FIXTURES OA, OB, & OC MATCH THOSE AT BLACKHAWK CHURCH
 2. CALC ZONE #1 IS PARKING LOT
 3. CALC ZONE #2 IS 10' BEYOND PROPERTY LINE

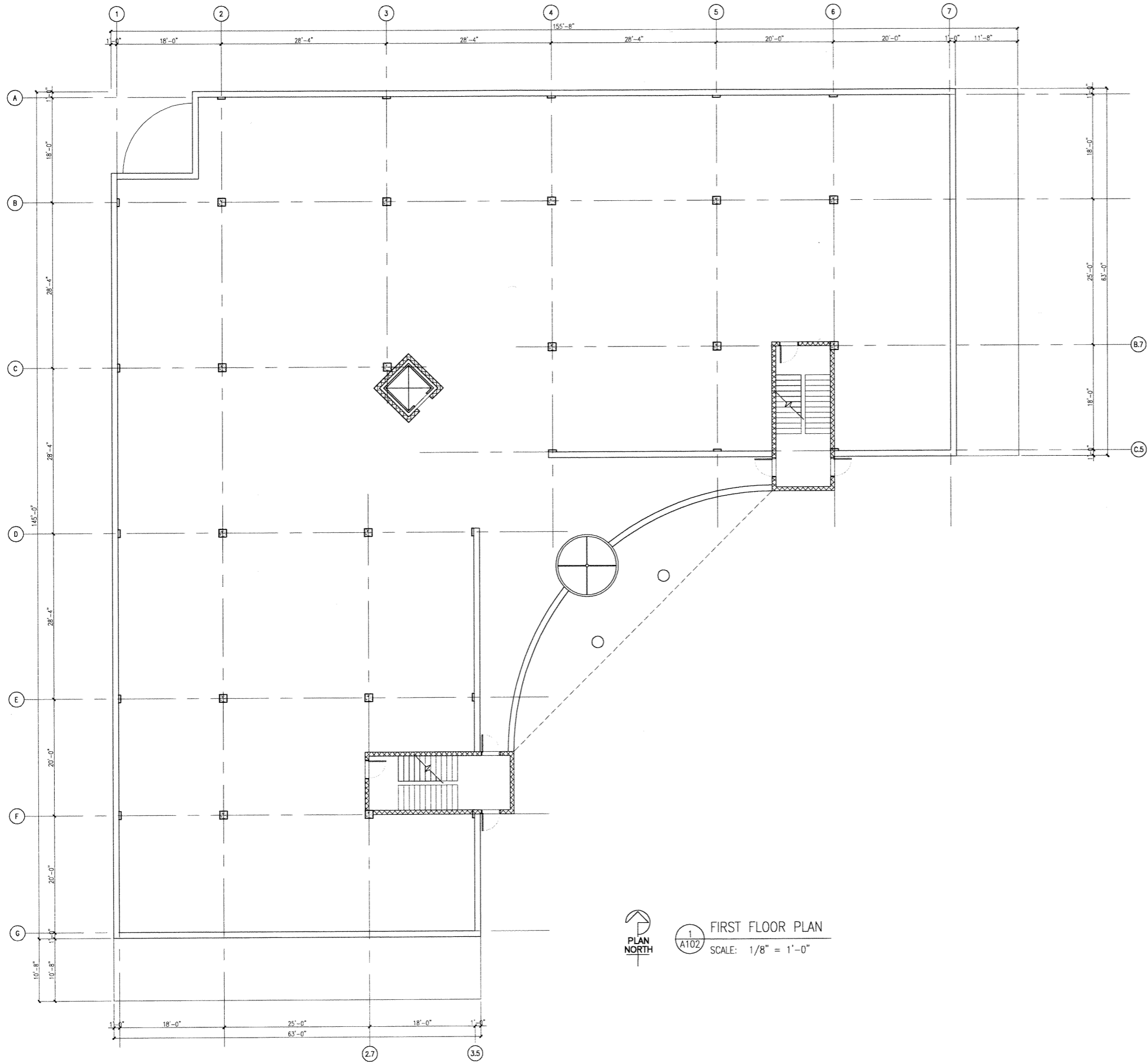


REVISIONS	
SHEET NO. E1	<p style="text-align: center;">Baer Insurance Building 9701 Brader Way Verona, Wisconsin 53593 (Blackhawk Church Town Center Plat, Parcel 2)</p>
DRAWING NAME: SITE LIGHTING PLAN	<p style="text-align: center;">Heameth f. Sullivan GENERAL CONTRACTORS DESIGN / BUILD</p>
SCALE: 1 : 20	<p style="text-align: center;">1314 EMIL ST. MADISON, WI 53713 (608)257-2289</p>
DRAWN BY: LP	
DATE: 9/5/06	
PROJ. #	



1 GARAGE FLOOR PLAN
 A101 SCALE: 1/8" = 1'-0"

SHEET NO. A101	DRAWING NAME: GARAGE PLAN	 1314 EML. ST. MADISON, WI 53713 (608)257-2289	REVISIONS
	SCALE: 1/8" = 1'-0" DRAWN BY: AK DATE:		Baer Insurance Building 9701 Brader Way Verona, Wisconsin 53593 (Blackhawk Church Town Center Plat, Parcel 2)
PROJ. # -			



1
A102
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

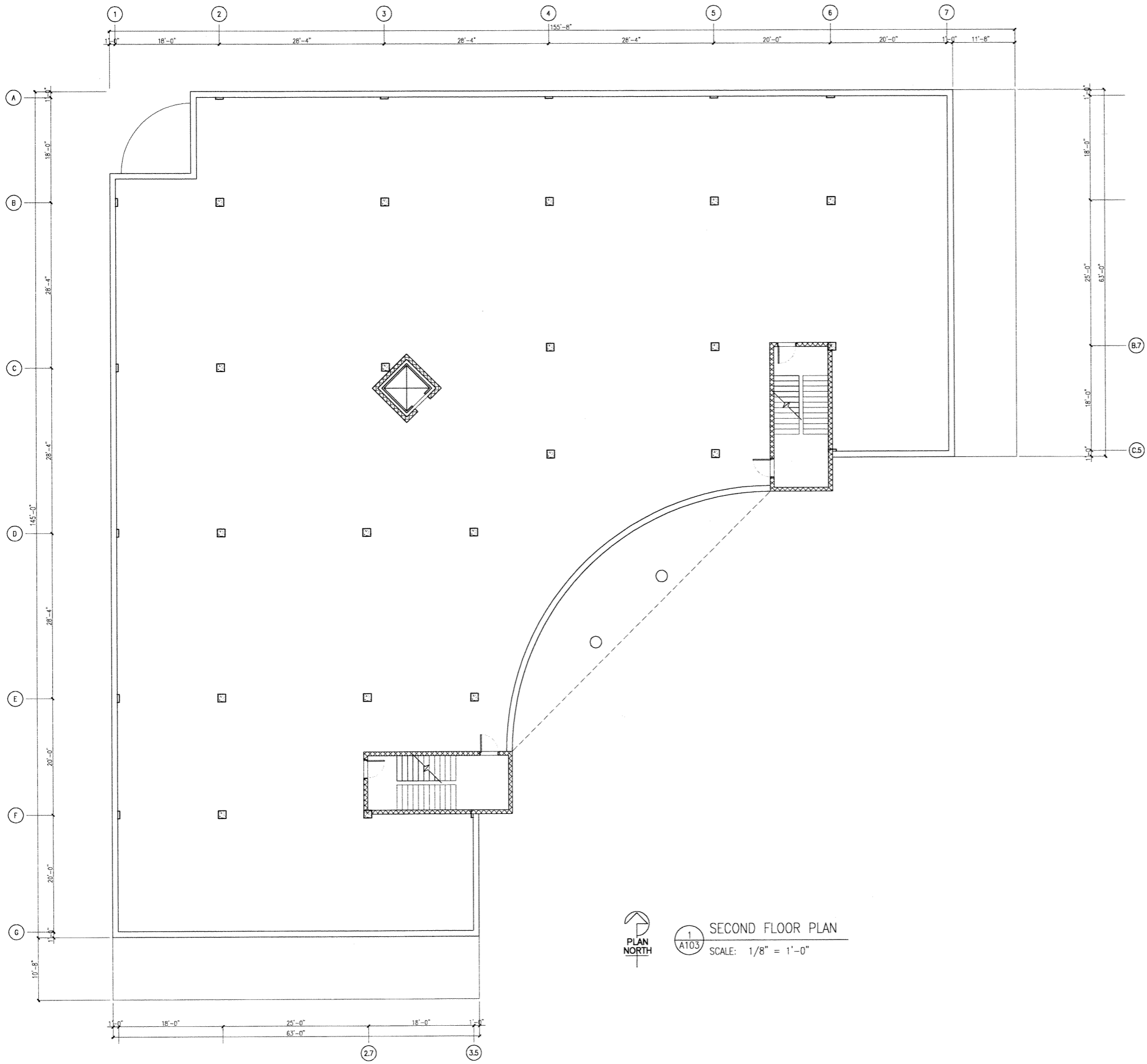
REVISIONS

Baer Insurance Building
 9701 Brader Way
 Verona, Wisconsin 53593
 (Blackhawk Church Town Center Plat, Parcel 2)




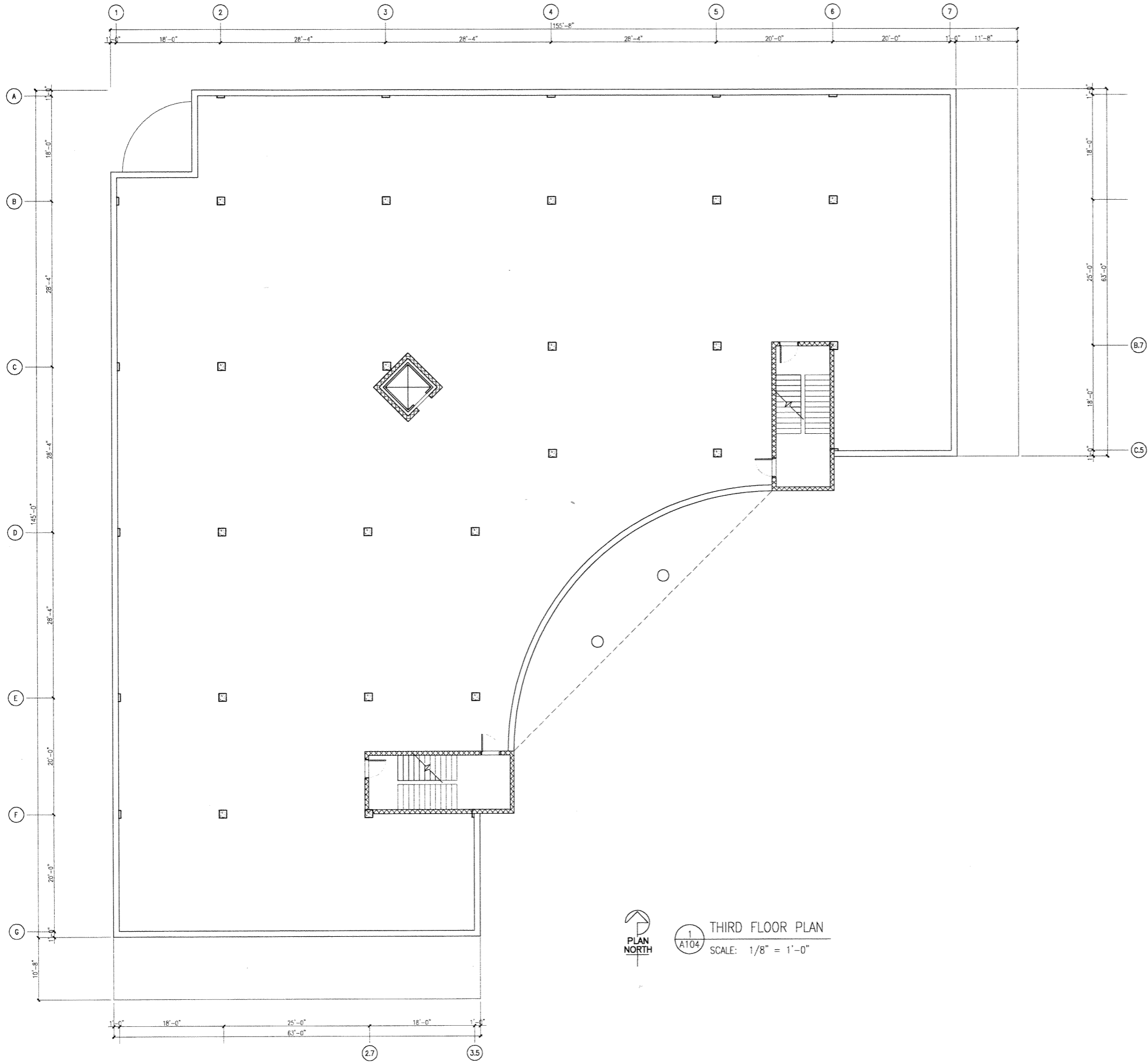
DRAWING NAME:
 FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 DRAWN BY: AK
 DATE:

SHEET NO.
A102
 PROJ. # -




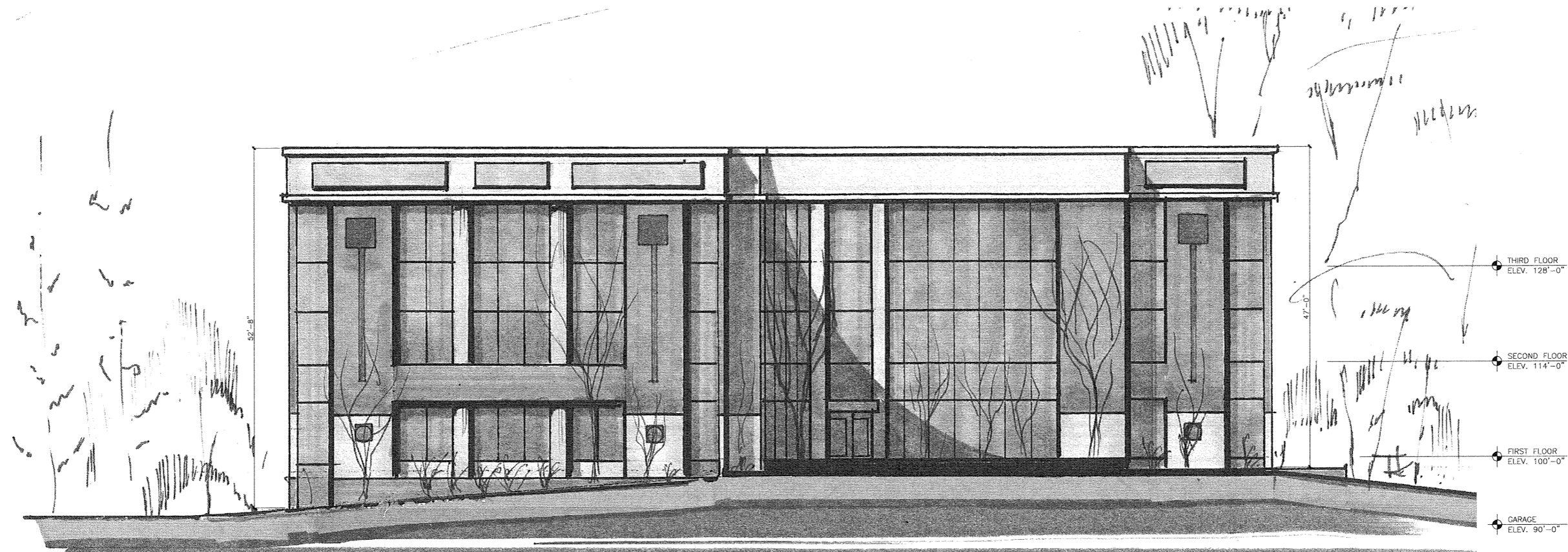
1 SECOND FLOOR PLAN
 A103 SCALE: 1/8" = 1'-0"
 DATE:

SHEET NO. A103	DRAWING NAME: SECOND FLOOR PLAN	 Koeneth f. Sullivan GENERAL CONTRACTORS DESIGN / BUILD 1314 EMIL ST. MADISON, WI 53713 (608)257-2289	Baer Insurance Building 9701 Brader Way Verona, Wisconsin 53593 (Blackhawk Church Town Center Plat, Parcel 2)	REVISIONS
				SCALE: 1/8" = 1'-0" DRAWN BY: AK DATE:
PROJ. # -				

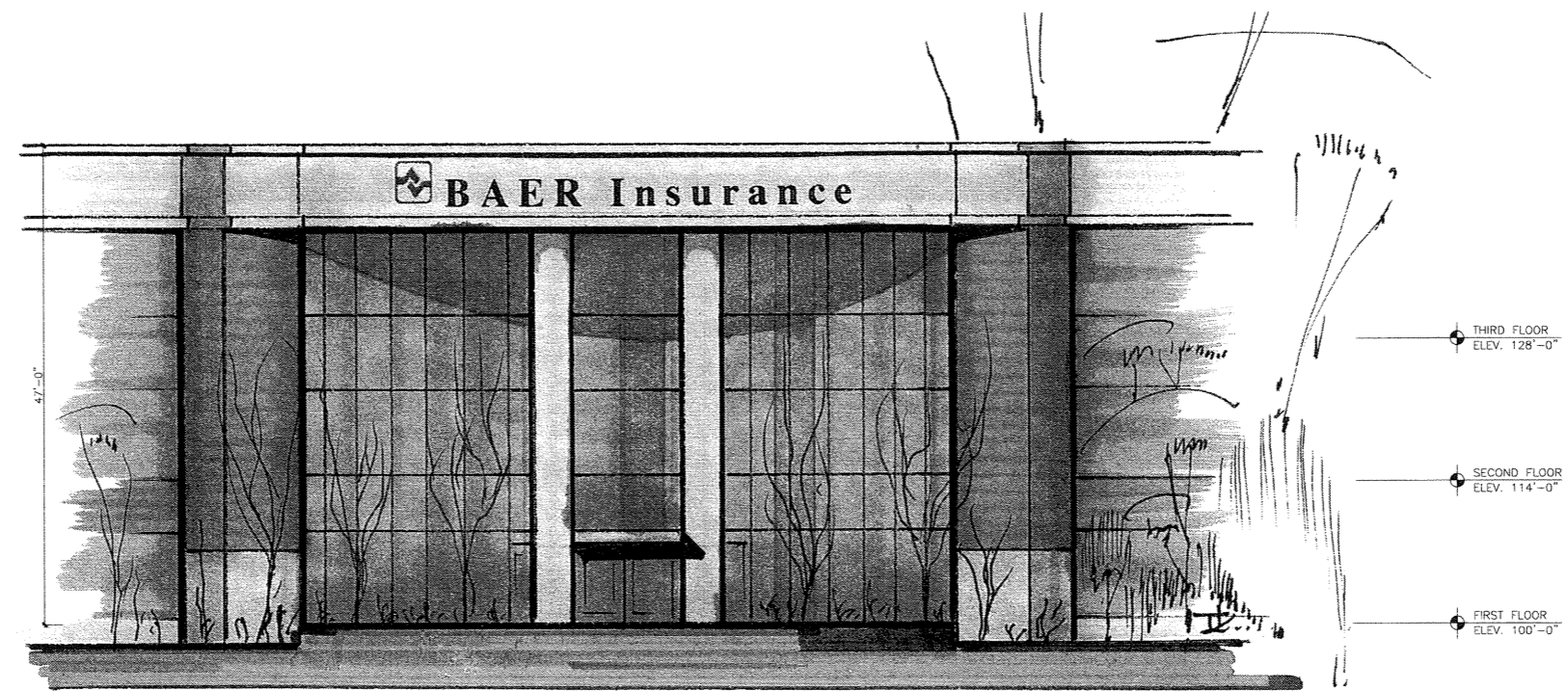


1
A104
THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

SHEET NO. A104	DRAWING NAME: THIRD FLOOR PLAN	 Koeneth Sullivan GENERAL CONTRACTORS DESIGN / BUILD 1314 EMIL ST. MADISON, WI 53713 (608)257-2289	REVISIONS
	SCALE: 1/8" = 1'-0" DRAWN BY: AK DATE:		Baer Insurance Building 9701 Brader Way Verona, Wisconsin 53593 (Blackhawk Church Town Center Plat, Parcel 2)
PROJ. # -			



1 SOUTH ELEVATION (EAST OPPOSITE)
 A201 SCALE: 1/8" = 1'-0"



2 SOUTHEAST ELEVATION
 A201 SCALE: 1/8" = 1'-0"

REVISIONS	
Baer Insurance Building 9701 Brader Way Verona, Wisconsin 53593 (Blackhawk Church Town Center Plat, Parcel 2)	
 1314 EMIL ST. MADISON, WI 53713 (608)257-2289	
DRAWING NAME: SOUTH & SOUTHEAST EXTERIOR ELEVATIONS SCALE: 1/8" = 1'-0" DRAWN BY: AK DATE:	
SHEET NO. A201	PROJ. # -



1
A202 WEST ELEVATION (NORTH OPPOSITE)
SCALE: 1/8" = 1'-0"

SHEET NO. A202	DRAWING NAME: WEST EXTERIOR ELEVATIONS SCALE: 1/8" = 1'-0" DRAWN BY: AK DATE:	 HENNETH SULLIVAN ARCHITECTS DESIGN / BUILD 1314 EML ST. MADISON, WI 53713 (608)257-2289	Baer Insurance Building 9701 Brader Way Verona, Wisconsin 53593 (Blackhawk Church Town Center Plat, Parcel 2)	REVISIONS
				PROJ. # -

DESCRIPTION

STRUT enhances the rectilinear form with a housing that blends effortlessly to traditional or ambitious architectural environments. STRUT brings two housing sizes and a fluid form to match the culture in which it resides.

Catalog #	STM-400-MH-MT-5S-BZ-STR-L	Type	OA
Project	BAER INSURANCE BUILDING	Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

A ... Housing

Two-piece heavy-wall, die-cast aluminum housing maintains a nominal .125 wall thickness and utilizes continuous silicone gasketing between castings for a forbidding seal. Optional strut rod supports manufactured of machined aluminum attach to housing top with recessed stainless steel fasteners.

B ... Door

Heavy-wall, die-cast aluminum door maintains a nominal .125 thickness. Continuous silicone gasketing provides IP66 compliant optical cavity. Toolless entry to housing is provided via two (2) flush mount quick release latches. Concealed hinging allows door to be removed from housing without the use of tools.

C ... Lens

Impact resistant 1/8" thick tempered clear or optional frosted flat glass for concealment of lamp image.

D ... Optical Systems

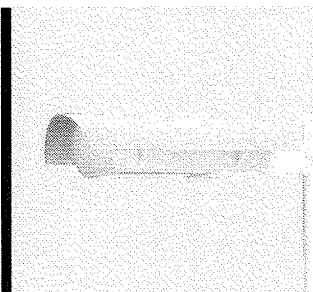
Choice of five (5) high efficiency segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs, or other means of attachment which may cause streaking in the light distribution. All reflector modules feature toolless removal, quick disconnect wiring plugs, and are toolless field rotatable in 90° increments. Medium housing (STM) optics feature mogul-base lampholders for HID lamp sources.

E ... Electrical Tray

Ballast and related electrical components are mounted to a toolless release reinforced one-piece, die-cast aluminum power tray. Quick disconnects allow tray to be completely removed from housing providing ample hand and tool room for attachment of luminaire during installation.

F ... Finish

Housing and arm finished in a 5 stage premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum, and graphite metallic. RAL and custom color matches available. Consult your INVUE Lighting Systems Representative for more information.



STM STRUT SITE MEDIUM

114-400W

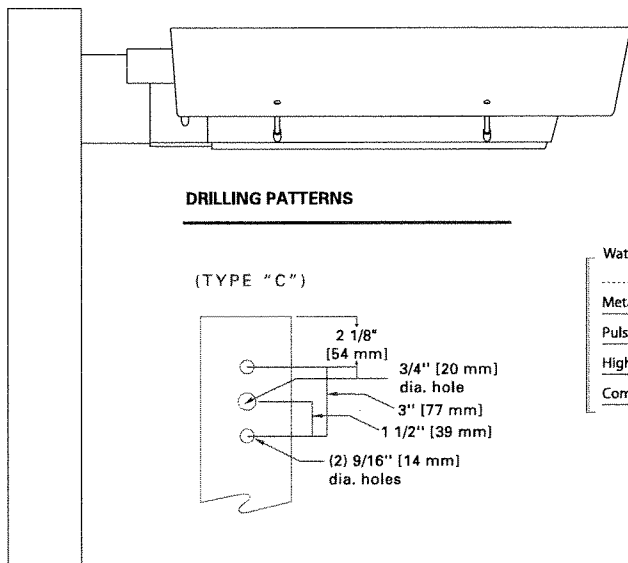
Metal Halide

Pulse Start Metal Halide

High Pressure Sodium

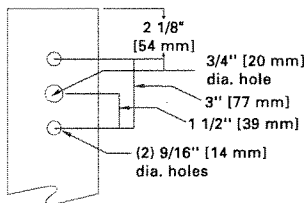
Compact Fluorescent

ARCHITECTURAL AREA LUMINAIRE



DRILLING PATTERNS

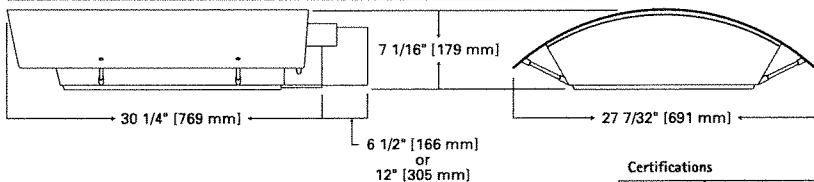
(TYPE "C")



Wattage Table

	STM
Metal Halide	175, 250, 400W
Pulse Start Metal Halide	250, 320, 350, 400W
High Pressure Sodium	150, 250, 400W
Compact Fluorescent	(2) 57, (2) 60W, (2) 70W, (2) 85W, (2) 120W

DIMENSIONS



Certifications

IP66 Rated	U.L. 1598 Listed	3G Vibration Tested	FCO Full Cutoff
CSA Listed	40°C Ambient	ISO 9001	

Shipping DATA (approx.)

Net Weight (lbs.): 51

Volume (cu. ft): 3.18

ORDERING INFORMATION



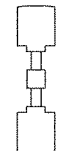
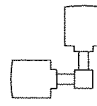
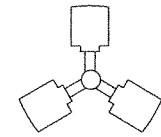
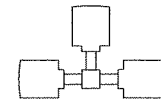
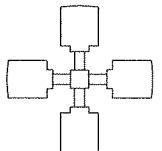
STM-400-MH-MT-5S-BZ-STR-L

STM	400	MH	MT	5S	BZ	STR	L	See Below
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<p>Product Family ¹ STM: STRUT Site Medium</p> <p>Lamp Wattage HID ² 150: 150W 175: 175W 250: 250W 320: 320W³ 350: 350W³ 400: 400W⁴</p> <p>Compact Fluorescent 114: (2) 57W⁵ 120: (2) 60W⁵ 140: (2) 70W⁵ 170: (2) 85W⁵ 240: (2) 120W⁵</p>	<p>Lamp Type MH: Metal Halide MP: Pulse Start Metal Halide HPS: High Pressure Sodium CF: Compact Fluorescent⁶</p> <p>Voltage ⁷ 120: 120V 208: 208V 240: 240V 277: 277V 347: 347V 480: 480V</p> <p>DT: Dual-Tap wired 277V⁸ MT: Multi-Tap wired 277V⁹ TT: Triple-Tap wired 347V¹⁰ UNV: 120-277V Universal Electronic Ballast</p>	<p>Optical System 2S: Type II 3S: Type III 4S: Type IV 5S: Type V SL: Forward Throw w/ Spill Light Eliminator</p> <p>Color ¹¹ BK: Black AP: Grey BZ: Bronze WH: White DP: Dark Platinum GM: Graphite Metallic</p>	<p>Structural Options STR: Strut Rod Supports (Painted to match fixture)</p> <p>Options ¹² F: Single Fuse (120, 277 or 347V) Specify Voltage FF: Double Fuse (208, 240 or 480V) Specify Voltage Q: Quartz Restrike¹³ EM: Quartz Restrike w/ Time Delay¹³ (Also Strikes at Cold Start) EM/SC: Quartz Emergency Separate¹³ Circuit R: NEMA Twistlock Photocell Receptacle PC: Button Type Photocontrol (Specify Voltage) DS: Dual Fluorescent Switching Control¹⁴ HS: House Side Shield¹⁵ FR: Frosted Flat Glass Lens L: Lamp Included</p>	<p>Accessories ¹⁶ OARA1016: NEMA Photocontrol - Multi-Tap OARA1027: NEMA Photocontrol - 480V OARA1201: NEMA Photocontrol - 347V VA1050-BZ: Wall Mount Kit w/ 6-1/2" Arm¹⁷ VA1055-BZ: 6-1/2" Arm for Square Pole VA1069-BZ: 12" Arm for Square Pole¹⁸ VA1057-BZ: 6-1/2" Arm for Round Pole VA1072-BZ: 12" Arm for Round Pole¹⁸ VA1018-BZ: Mast Arm Adapter Kit VA1033-BZ: Single-arm Tenon Adapter for 2 3/8" O.D. Tenon VA1034-BZ: 2@180° Tenon Adapter for 2 3/8" O.D. Tenon VA1035-BZ: 3@120° Tenon Adapter for 2 3/8" O.D. Tenon VA1036-BZ: 4@90° Tenon Adapter for 2 3/8" O.D. Tenon VA1037-BZ: 2@90° Tenon Adapter for 2 3/8" O.D. Tenon VA1038-BZ: 3@90° Tenon Adapter for 2 3/8" O.D. Tenon VA1039-BZ: 2@120° Tenon Adapter for 2 3/8" O.D. Tenon VA1040-BZ: Single-arm Tenon Adapter for 3 1/2" O.D. Tenon VA1041-BZ: 2@180° Tenon Adapter for 3 1/2" O.D. Tenon VA1042-BZ: 3@120° Tenon Adapter for 3 1/2" O.D. Tenon VA1043-BZ: 4@90° Tenon Adapter for 3 1/2" O.D. Tenon VA1044-BZ: 2@90° Tenon Adapter for 3 1/2" O.D. Tenon VA1046-BZ: 2@120° Tenon Adapter for 3 1/2" O.D. Tenon VA1045-BZ: 3@90° Tenon Adapter for 3 1/2" O.D. Tenon</p>
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- Notes:**
- 1 Arm not included. See accessories.
 - 2 All HID lamps are mogul-base.
 - 3 320W and 350W Pulse Start Metal Halide lamps only.
 - 4 400W Metal Halide requires reduced envelope ED28 lamp.
 - 5 Dual Compact Fluorescent lamp options available in Type 4S distribution only.
 - 6 Compact Fluorescent ballasts contain internal fusing. No supplemental fusing is necessary. CF ballasts are 120 through 277V. Specify with UNV voltage designation.
 - 7 Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information.
 - 8 Dual-tap is 120/277V wired 277V.
 - 9 Multi-tap is 120/208/240/277V wired 277V.
 - 10 Triple-tap is 120/277/347V wired 347V.
 - 11 Custom and RAL color matching available upon request. Consult your INVUE Lighting Systems Representative for further information.
 - 12 Add as suffix in the order shown.
 - 13 Quartz options not available with SL optic.
 - 14 Dual switching requires dual 57W or dual 70W Compact Fluorescent lamps. Allows independent switching control of each lamp through use of two (2) electronic ballasts. Allows 50% power reduction when dual ballasts are independently wired and controlled.
 - 15 House side shield not available on 5S and SL optics.
 - 16 Order separately, replace XX with color suffix.
 - 17 For use in down lighting applications only.
 - 18 Use when mounting fixture heads at 90° increments.

MOUNTING VARIATIONS

<p>Wall Mount</p> 	<p>Arm Mount Single E.P.A STM 1.64</p> 	<p>Arm Mount 2 @ 180° E.P.A STM 3.28</p> 	<p>Arm Mount 2 @ 90° E.P.A STM 3.28</p> 	<p>Arm Mount 3 @ 120° E.P.A STM 4.7</p> 	<p>Arm Mount 3 @ 90° E.P.A STM 4.7</p> 	<p>Arm Mount 4 @ 90° E.P.A STM 5.77</p> 
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DESCRIPTION

STRUT enhances the rectilinear form with a housing that blends effortlessly to traditional or ambitious architectural environments. STRUT brings two housing sizes and a fluid form to match the culture in which it resides.

Catalog #	STM-400-MH-MT-4S-BZ-STR-HS-L	Type	OB
Project	BAER INSURANCE BUILDING	Date	
Comments			09/05/2006
Prepared by			

SPECIFICATION FEATURES

A ... Housing

Two-piece heavy-wall, die-cast aluminum housing maintains a nominal .125 wall thickness and utilizes continuous silicone gasketing between castings for a forbidding seal. Optional strut rod supports manufactured of machined aluminum attach to housing top with recessed stainless steel fasteners.

B ... Door

Heavy-wall, die-cast aluminum door maintains a nominal .125 thickness. Continuous silicone gasketing provides IP66 compliant optical cavity. Toolless entry to housing is provided via two (2) flush mount quick release latches. Concealed hinging allows door to be removed from housing without the use of tools.

C ... Lens

Impact resistant 1/8" thick tempered clear or optional frosted flat glass for concealment of lamp image.

D ... Optical Systems

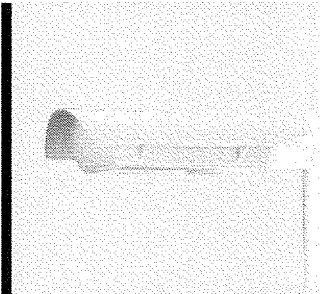
Choice of five (5) high efficiency segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs, or other means of attachment which may cause streaking in the light distribution. All reflector modules feature toolless removal, quick disconnect wiring plugs, and are toolless field rotatable in 90° increments. Medium housing (STM) optics feature mogul-base lampholders for HID lamp sources.

E ... Electrical Tray

Ballast and related electrical components are mounted to a toolless release reinforced one-piece, die-cast aluminum power tray. Quick disconnects allow tray to be completely removed from housing providing ample hand and tool room for attachment of luminaire during installation.

F ... Finish

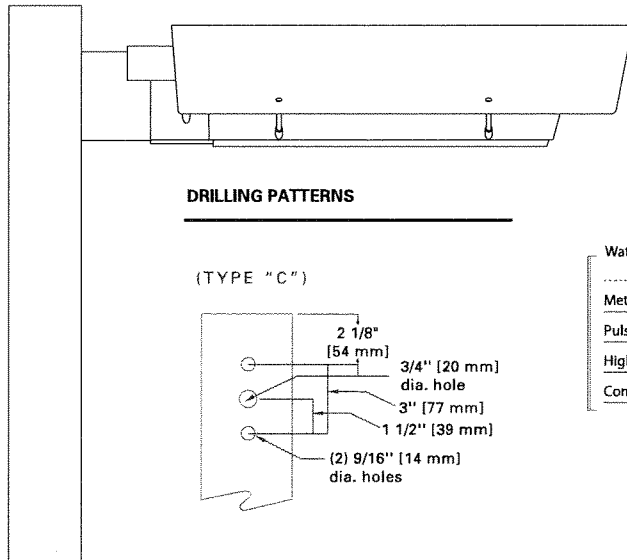
Housing and arm finished in a 5 stage premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum, and graphite metallic. RAL and custom color matches available. Consult your INVUE Lighting Systems Representative for more information.



**STM
STRUT
SITE MEDIUM**

**114-400W
Metal Halide
Pulse Start Metal Halide
High Pressure Sodium
Compact Fluorescent**

**ARCHITECTURAL
AREA LUMINAIRE**



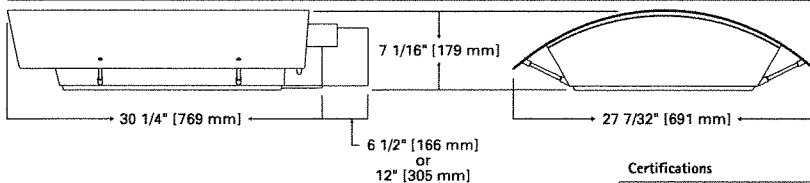
DRILLING PATTERNS

(TYPE "C")

Wattage Table

	STM
Metal Halide	175, 250, 400W
Pulse Start Metal Halide	250, 320, 350, 400W
High Pressure Sodium	150, 250, 400W
Compact Fluorescent	(2) 57, (2) 60W, (2) 70W, (2) 85W, (2) 120W

DIMENSIONS



Certifications

IP66 Rated	U.L. 1598 Listed	3G Vibration Tested	FCO Full Cutoff
CSA Listed	40°C Ambient	ISO 9001	

Shipping DATA (approx.)
Net Weight (lbs.): 51
Volume (cu. ft): 3.18

ORDERING INFORMATION

STM-400-MH-MT-4S-BZ-STR-HS-L

STM	400	MH	MT	4S	BZ	STR	HS L	See Below
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Product Family¹
STM: STRUT Site Medium

Lamp Wattage
HID²

150: 150W
175: 175W
250: 250W
320: 320W³
350: 350W³
400: 400W⁴

Compact Fluorescent

114: (2) 57W⁵
120: (2) 60W⁵
140: (2) 70W⁵
170: (2) 85W⁵
240: (2) 120W⁵

Lamp Type

MH: Metal Halide
MP: Pulse Start Metal Halide
HPS: High Pressure Sodium
CF: Compact Fluorescent⁶

Voltage⁷

120: 120V
208: 208V
240: 240V
277: 277V
347: 347V
480: 480V

DT: Dual-Tap wired 277V⁸
MT: Multi-Tap wired 277V⁹
TT: Triple-Tap wired 347V¹⁰
UNV: 120-277V Universal Electronic Ballast

Optical System

2S: Type II
3S: Type III
4S: Type IV
5S: Type V
SL: Forward Throw w/ Spill Light Eliminator

Color¹¹

BK: Black
AP: Grey
BZ: Bronze
WH: White
DP: Dark Platinum
GM: Graphite Metallic

Structural Options

STR: Strut Rod Supports (Painted to match fixture)

Options¹²

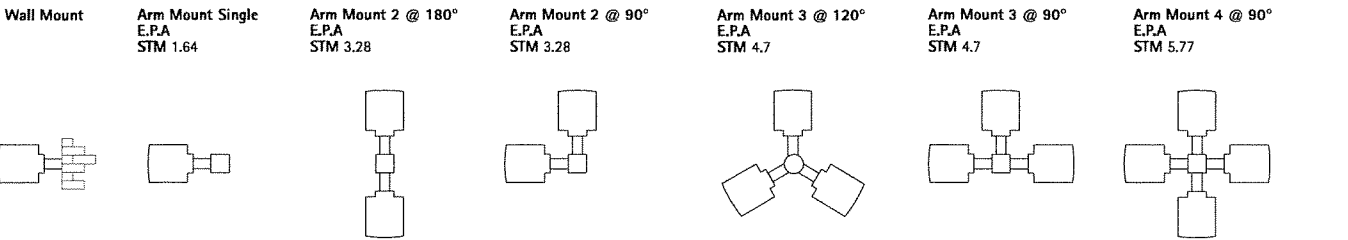
F: Single Fuse (120, 277 or 347V) Specify Voltage
FF: Double Fuse (208, 240 or 480V) Specify Voltage
Q: Quartz Restrike¹³
EM: Quartz Restrike w/ Time Delay¹³ (Also Strikes at Cold Start)
EM/SC: Quartz Emergency Separate¹³ Circuit
R: NEMA Twistlock Photocell Receptacle
PC: Button Type Photocontrol (Specify Voltage)
DS: Dual Fluorescent Switching Control¹⁴
HS: House Side Shield¹⁵
FR: Frosted Flat Glass Lens
L: Lamp Included

Accessories¹⁶

0A/RA1016: NEMA Photocontrol - Multi-Tap
0A/RA1027: NEMA Photocontrol - 480V
0A/RA1201: NEMA Photocontrol - 347V
VA1050-BZ: Wall Mount Kit w/ 6-1/2" Arm¹⁷
VA1055-BZ: 6-1/2" Arm for Square Pole
VA1059-BZ: 12" Arm for Square Pole¹⁸
VA1057-BZ: 6-1/2" Arm for Round Pole
VA1072-BZ: 12" Arm for Round Pole¹⁸
VA1018-BZ: Mast Arm Adapter Kit
VA1033-BZ: Single-arm Tenon Adapter for 2 3/8" O.D. Tenon
VA1034-BZ: 2@180° Tenon Adapter for 2 3/8" O.D. Tenon
VA1035-BZ: 3@120° Tenon Adapter for 2 3/8" O.D. Tenon
VA1036-BZ: 4@90° Tenon Adapter for 2 3/8" O.D. Tenon
VA1037-BZ: 2@90° Tenon Adapter for 2 3/8" O.D. Tenon
VA1038-BZ: 3@90° Tenon Adapter for 2 3/8" O.D. Tenon
VA1039-BZ: 2@120° Tenon Adapter for 2 3/8" O.D. Tenon
VA1040-BZ: Single-arm Tenon Adapter for 3 1/2" O.D. Tenon
VA1041-BZ: 2@180° Tenon Adapter for 3 1/2" O.D. Tenon
VA1042-BZ: 3@120° Tenon Adapter for 3 1/2" O.D. Tenon
VA1043-BZ: 4@90° Tenon Adapter for 3 1/2" O.D. Tenon
VA1044-BZ: 2@90° Tenon Adapter for 3 1/2" O.D. Tenon
VA1046-BZ: 2@120° Tenon Adapter for 3 1/2" O.D. Tenon
VA1045-BZ: 3@90° Tenon Adapter for 3 1/2" O.D. Tenon

- Notes:**
- 1 Arm not included. See accessories.
 - 2 All HID lamps are mogul-base.
 - 3 320W and 350W Pulse Start Metal Halide lamps only.
 - 4 400W Metal Halide requires reduced envelope ED28 lamp.
 - 5 Dual Compact Fluorescent lamp options available in Type 4S distribution only.
 - 6 Compact Fluorescent ballasts contain internal fusing. No supplemental fusing is necessary. CF ballasts are 120 through 277V. Specify with UNV voltage designation.
 - 7 Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information.
 - 8 Dual-tap is 120/277V wired 277V.
 - 9 Multi-tap is 120/208/240/277V wired 277V.
 - 10 Triple-tap is 120/277/347V wired 347V.
 - 11 Custom end RAL color matching available upon request. Consult your INVUE Lighting Systems Representative for further information.
 - 12 Add as suffix in the order shown.
 - 13 Quartz options not available with SL optic.
 - 14 Dual switching requires dual 57W or dual 70W Compact Fluorescent lamps. Allows independent switching control of each lamp through use of two (2) electronic ballasts. Allows 50% power reduction when dual ballasts are independently wired and controlled.
 - 15 House side shield not available on 6S and SL optics.
 - 16 Order separately, replace XX with color suffix.
 - 17 For use in down lighting applications only.
 - 18 Use when mounting fixture heads at 90° increments.

MOUNTING VARIATIONS



DESCRIPTION

ENTRI Series' family of modular faceplate designs provide a tasteful architectural statement equally suitable for indoor and outdoor environments. Available luminous faceplate window adds a signature look, while affording custom color capability.

Catalog #	ENC-70-MH-120-EB-FXF-BZ-L	Type	OC
Project	BAER INSURANCE BUILDING	Date	09/05/2006
Comments			
Prepared by			

SPECIFICATION FEATURES

A ... Housing

One piece die-cast aluminum construction for precise tolerance control and repeatability in manufacturing. Accommodates either up or down mounting configurations with no modifications. Downlight and upright lens' are impact resistant 5/32" thick tempered clear or frosted flat glass, sealed to the housing with high strength VHB adhesive tape and a continuous silicone bead gasket. Silicone wireway plug on housing back wall seals incoming electrical leads to prevent moisture and dust entry.

B ... Faceplate

One piece die-cast aluminum faceplate utilizes a continuous silicone gasket to seal securely to housing. Side hinged faceplate swings open via release of one (1) flush mount die-cast aluminum latch on housing side panel. Available luminous glass insert is .16" thick frosted glass, secured to back of faceplate with a continuous EPDM gasket. Available colored gel film secures behind glass.

C ... Optical System

Choice of ten (10) high efficiency optical systems constructed of premium 95% reflective anodized aluminum sheet, or bright specular anodized polished spun aluminum. Available distributions include Type III, Type III with 10% secondary glow, Type III with pencil secondary, Forward Throw, Forward Throw with 10% secondary glow, Forward Throw with pencil secondary, FX grazing optic, FXF 50% up/50% down grazing optic, Tight Spot, and 50% up/50% down Tight Spot. Optical segments are rigidly mounted inside a heavy wall aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs, or other means of attachment which may cause streaking in the light distribution. All reflector modules feature quick disconnect wiring plugs. T6 Metal Halide lamps feature G12 lampholders, White Son™ High Pressure Sodium lamp features a GX12 lampholder, Quartz Halogen lamps feature mini-can screw based lampholders, and Compact Fluorescent lamps feature GX24q-(3,4,5) 4-pin lampholders.

D ... Electrical Components

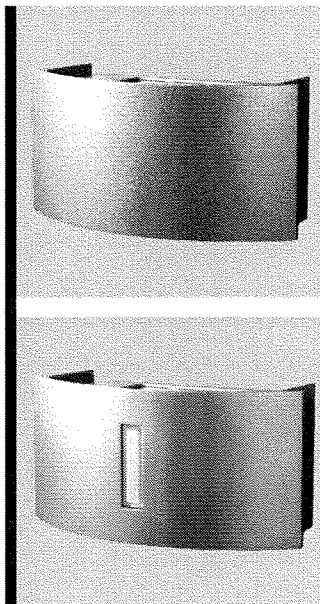
Ballast and related electrical componentry are heat sunk to the housing for cooler operation and prolonged life.

E ... Mounting

Standard zinc plated attachment plate mounts directly to 4" J-Box. Fixture slides over mounting plate and is secured with two (2) concealed stainless steel fasteners. Mounting plate features one-piece, EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates. Optional mounting arrangements utilize a die-cast aluminum adapter box to allow for surface conduit wiring, quartz lamp options, and emergency battery pack capability.

F ... Finish

Housing finished in a 5 stage premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum, and graphite metallic. RAL and custom color matches available. Consult your INVUE Lighting Systems Representative for more information.

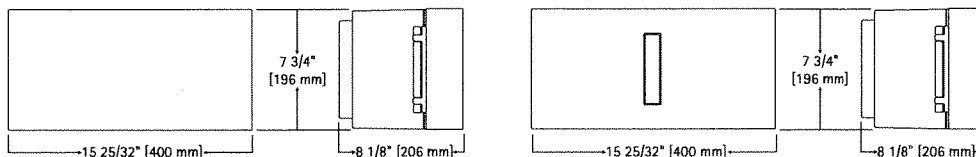


ENC ENTRI ROUND CLEAN

26-250W
Metal Halide
WhiteSON High Pressure Sodium
Compact Fluorescent
Quartz Halogen

ARCHITECTURAL WALL
LUMINAIRE

DIMENSIONS



Wattage Table

ENC	
Metal Halide	39, 70, 100, 150W
White Son HPS	100W
Compact Fluorescent	26, 32, 42, 57W
Dual Compact Fluorescent	(2) 26, (2) 32, (2) 42W
Quartz Halogen	100, 150, 250W

Certifications

IP66 Rated	U.L. 1598	FCO Full Cutoff
CSA Listed	25 °C Ambient	

*In downlight only configurations with no faceplate window.

Shipping DATA (approx.)
Net Weight (lbs.): 13
Volume (cu. ft): 4.5

ORDERING INFORMATION

ENC-70-MH-120-EB-FXF-BZ-L

ENC	70	MH	120	EB	FXF	BZ		L	
-----	----	----	-----	----	-----	----	--	---	--

Product Family
ENC: ENTRI Round Clean

Lamp Wattage

HID¹
39: 39W
70: 70W
100: 100W
150: 150W
Compact Fluorescent²
26: 26W
32: 32W
42: 42W
52: (2) 26W³
57: 57W⁴
64: (2) 32W³
84: (2) 42W³
Halogen⁵
100: 100W
150: 150W
250: 250W

Lamp Type

MH: Metal Halide
WS: WhiteSON High Pressure Sodium⁶
CF: Compact Fluorescent⁷
HL: Quartz Halogen

Voltage⁸

120: 120V
208: 208V
240: 240V
277: 277V
347: 347V
DT: Dual-Tap⁹ wired 277V
MT: Multi-Tap¹⁰ wired 277V
TT: Triple-Tap¹¹ wired 347V
UNV: 120-277V Universal Electronic Ballast

Ballast

MB: Magnetic Ballast
EB: Electronic¹² Ballast
X: None (for Halogen Lamp)

Optical System

Downlight or Uplight (HID or Halogen)
3S: Type III
FT: Forward Throw
FX: Wall Grazing Optic
TS: Tight Spot
Downlight and Uplight (HID and Halogen)
3SG: Type III, 90% Main/10% Secondary Glow
3SP: Type III with Pencil Secondary
FTG: Forward Throw, 90% Main/10% Secondary Glow
FTP: Forward Throw with Pencil Secondary
FXF: Wall Grazing Optic, 50% Up/50% Down
TSF: Tight Spot, 50% Up/50% Down
Compact Fluorescent
CFG: 90% Main + 10% Secondary Glow
CFM: 100% Main, Up or Downlighting

Color¹³

BK: Black
AP: Grey
BZ: Bronze
WH: White
DP: Dark Platinum
GM: Graphite Metallic

Optional Luminous Faceplate Insert

LG: Luminous Glass Insert
LGO: Luminous Glass Insert w/ Warm Orange Gel
LGR: Luminous Glass Insert w/ Red Gel
LGB: Luminous Glass Insert w/ Bright Blue Gel
LGG: Luminous Glass Insert w/ Deep Green Gel

Options¹⁴

F: Single Fuse (120, 277 or 347V) Specify Voltage
FF: Double Fuse (208, 240 or 480V) Specify Voltage
DSAB: Dual Fluorescent Switching Control Adapter Box¹⁵
QAB: Quartz Restrike Adapter Box
EMAB: Quartz Restrike w/ Delay Adapter Box (Also Strikes at Cold Start)
EM/SCAB: Quartz Emergency Separate Circuit Adapter Box
CF/EMAB: Emergency Battery Backup Adapter Box¹⁶
PC: Button Type Photocontrol (Specify Voltage)
WG: Wire Guard¹⁷
FRM: Frosted Main Flat Glass
FRS: Frosted Secondary Flat Glass¹⁸
L: Lamp Included (Standard for all Halogen lamps)

Accessories¹⁹

VA2001-BZ: Thru-way Box
VA2002: Wire Guard Kit

- Notes:**
- All MH lamps are T6 envelope with G12 lamp base. All HPS lamps are T6 envelope with GX12 lamp base.
 - All 26/32/42/57W CF lamps feature a 4-pin lamp base. Available in CFM and CFG distributions only.
 - Dual compact fluorescent lamps.
 - Nominal M.O.L lamp length of 57W CFL not to exceed 7".
 - All Halogen lamps are T4 envelope with mini-can base.
 - WhiteSON HPS lamp available in 100W only. Requires electronic ballast. 120/277V only. Requires use of VA2001 accessory Thru-way Box.
 - Compact Fluorescent ballasts contain internal fusing. No supplemental fusing is necessary. CF ballasts are 120 through 277V. Specify with UNV voltage designation.
 - Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information.
 - Dual-tap is 120/277V wired 277V.
 - Multi-tap is 120/208/240/277V wired 277V.
 - Triple-tap is 120/277/347V wired 347V.
 - 120 through 277V only. Electronic ballasts contain internal fusing, no supplemental fusing is necessary. Electronic ballast available with all CF lamps, and 39/70/100W MH lamps. Available with 150W MH lamp with use of VA2001 accessory Thru-way Box. Not available with QAB or EMAB options.
 - Custom and RAL color matching available upon request. Consult your INVUE Lighting Systems Representative for further information.
 - Add as suffix in the order shown.
 - Dual switching requires dual 26, 32 or 42W Compact Fluorescent lamps. Allows independent switching control of each lamp through use of two (2) electronic ballasts. Allows 50% power reduction when dual ballasts are independently wired and controlled.
 - Battery backup provides 90 minutes of supplemental light at 60% of initial rated lamp lumens. Must specify 26/32/42W Compact Fluorescent lamp.
 - For use in down lighting applications only.
 - Frosted secondary lens provided standard on 3SG, FTG, and CFG distributions.
 - Order separately, replace XX with color suffix.

TYPE: **OD**

CATALOG#: **M6043S-730-10002P**



DESCRIPTION

A low brightness shallow plenum downlight for use with Metal Halide or High Pressure Sodium lamps. Fresnel lens provides focused, controlled light distribution. Prismatic lens provides a wider, more diffuse light pattern. Highly efficient reflector designs allow maximum utilization of HID light sources and shallow mounting.

SPECIFICATION FEATURES

- A... Reflector**
Specular clear reflector with a spun parabolic contour. Positive reflector mounting via keyed holes and screws.
- B... Trim Ring**
Painted die-cast aluminum with choice of white or black baffle.

SPECIFICATION FEATURES

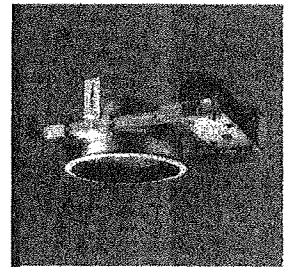
- C... Housing/Mounting Frame**
Precision die-cast aluminum 1 1/2" deep collar accommodates varying dimensions of ceiling materials. .060 stamped steel mounting frame.
- D... Mounting**
Pre-installed telescoping mounting bars are suitable for T-bar ceilings or wood joists.
- E... Conduit Fittings**
Die-cast screw tight connectors.
- F... Socket**
4KV pulse rated medium base screw shell socket.
- G... Junction Box**
U.L. listed for four in, four out #12 at 90°C pull through branch wiring. Positioned to

allow straight conduit runs. Five 1/2" and two 3/4" knockouts are provided. Access to junction box through removal of reflector.

H... Ballast
Quick mount plug-in thermally protected ballast with dual tap for 120/277V. Ballast secures to mounting frame with spring lock.

I... Insulation Detector
Self resetting insulation detector opens circuit if insulation is improperly installed.

Labels
U.L. listed, C.S.A. certified, standard damp label, IBEW union made.

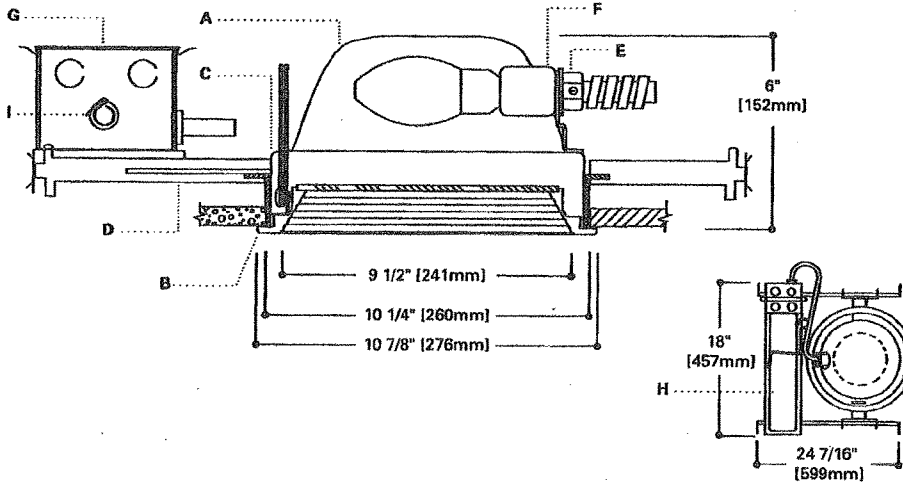


**M6043S 10002P
10012P**

**50W, 70W, 100W, 150W HPS
50W, 70W, 100W MH
9 1/2" LENS**

- Ballast 720 Lamp 50W MH**
Input Watts: 72W
Operating/Starting /Open Circuit Current:
120V= 0.65A / 0.80A/1.15A
277V= 0.30A / 0.35A/0.50A
Power Factor: 90% Sound Rating B
Min. Starting Temperature: -20°F (-30°C)
- Ballast 730 Lamp 70W MH**
Input Watts: 94W
Operating/Starting /Open Circuit Current:
120V= 0.86A / 0.53A/1.59A
277V= 0.37A / 0.27A/0.72A
Power Factor: 90% Sound Rating B
Min. Starting Temperature: -20°F (-30°C)
- Ballast 740 Lamp 100W MH**
Input Watts: 126W
Operating/Starting /Open Circuit Current:
120V= 1.10A / 2.20A/2.40A
277V= 0.48A / 0.95A/1.05A
Power Factor: 90% Sound Rating B
Min. Starting Temperature: -20°F (-30°C)
- Ballast 620 50W HPS**
Input Watts: 65
Operating/Starting Current:
120V= 0.65 / 0.70
277V= 0.30 / 0.35
Power Factor: 90%
- Ballast 630 70W HPS**
Input Watts: 90
Operating/Starting Current:
120V= 0.82 / 1.00
277V= 0.36 / 0.50
Power Factor: 90%
- Ballast 640 100W HPS**
Input Watts: 125
Operating/Starting Current:
120V= 1.10 / 1.45
277V= .50 / .85
Power Factor: 90%

NOTES: Accessories should be ordered separately.
For additional options please consult your Cooper Lighting Representative.
Alzak is a registered trademark of Aluminum Company of America.



ORDERING INFORMATION: Complete unit consists of housing, ballast and trim.

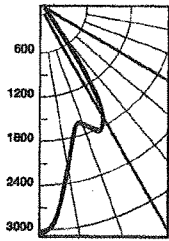
Housing	Options	Ballast	Trims	Finish	Accessories
M6043S		730	10002	P	
M6043S=9" Horizontal High Pressure Sodium and Metal Halide Housing	Q=Quartz Restrike System with Time Delay, 100W DC Bayonet Base Quartz Lamp (Included) X=DC Bayonet Lamp Socket only for Quartz Standby Lamp	620-50W HPS 120/277V Magnetic 630-70W HPS 120/277V Magnetic 638-70W HPS 120/347V Magnetic 640-100W HPS 120/277V Magnetic 648-100W HPS 120/347V Magnetic 650-150W HPS 120/277V Magnetic 658-150W HPS 120/347V Magnetic 720-50W MH 120/277V Magnetic 728-50W MH 120/347V Magnetic 730-70W MH 120/277V Magnetic 738-70W MH 120/347V Magnetic 740-100W MH 120/277V Magnetic 748-100W MH 120/347V Magnetic	10002-Regressed Fresnel Lens 10012-Regressed Concave Prismatic Lens	P=Black Baffle with White Trim Ring PWH=White Baffle with White Trim Ring	HB28=C Channel Bar Hanger, 26" Long, Pair HB50=C Channel Bar Hanger, 50" Long, Pair HSA9=Shoe Adapter for 9" Aperture Housings, Specify Slope FK=Field Installed Fuse Kit, Specify Amperage

COOPER LIGHTING

ADP012585

PHOTOMETRICS

Candlepower Distribution



Test No. H30017
M6043S -10002P
 Lamp=LU100/D/MED
 Lumens=9600
 Spacing Criteria=0.9
 Efficiency=62.9%

Candlepower

Deg.	CD
0	3847
5	3703
15	4037
25	2476
35	2363
45	1131
55	660
65	316
75	107
85	1
90	0

Average Luminance

Deg.	CD/SQ M
45	34961
55	25151
65	16292
75	9036
85	251

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'6"	180	4'0"
5'6"	121	5'0"
6'6"	86	6'0"
8'0"	67	7'6"
10'0"	36	9'6"
12'0"	25	11'6"

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.

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	2648	27.9	44.3
0-40	4044	42.6	67.6
0-60	5535	58.3	92.6
0-80	6980	62.9	100.0
90-180	0	0.0	0.0
0-180	5980	62.9	100.0

Coefficient of Utilization

rc	80%				70%				50%				30%				10%				0%			
	rw	70	50	30	10	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	0	
RCR	0	75	75	75	75	73	73	73	70	70	67	67	64	64	63	63	63	63	63	63	63	63	63	0
	1	70	68	66	64	67	65	63	64	61	62	59	59	58	58	58	58	58	58	58	58	58	58	0
	2	65	61	58	56	60	57	55	58	53	56	52	54	51	50	50	50	50	50	50	50	50	50	0
	3	61	56	52	48	55	51	48	53	47	51	46	50	46	44	44	44	44	44	44	44	44	44	0
	4	57	51	46	43	50	46	42	48	42	47	41	46	41	40	40	40	40	40	40	40	40	40	0
	5	53	48	42	38	46	41	38	44	38	43	37	42	37	36	36	36	36	36	36	36	36	36	0
	6	49	42	36	34	42	37	34	41	34	40	34	39	33	32	32	32	32	32	32	32	32	32	0
	7	46	39	34	31	39	34	31	38	31	36	30	36	30	29	29	29	29	29	29	29	29	29	0
	8	44	36	32	28	36	31	28	35	28	34	28	34	28	27	27	27	27	27	27	27	27	27	0
	9	41	34	29	26	33	28	26	33	26	32	26	31	26	25	25	25	25	25	25	25	25	25	0
	10	39	31	27	24	31	27	24	31	24	30	24	29	24	23	23	23	23	23	23	23	23	23	0

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio CU Data Based on 20% Effective Floor Cavity Reflectance.



Visit our website at www.cooperlighting.com Note: Specifications and Dimensions subject to change without notice.

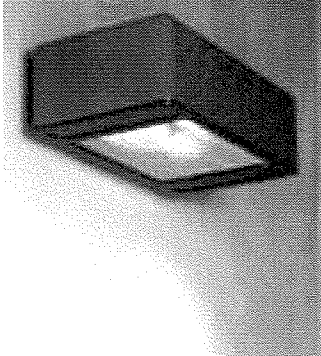
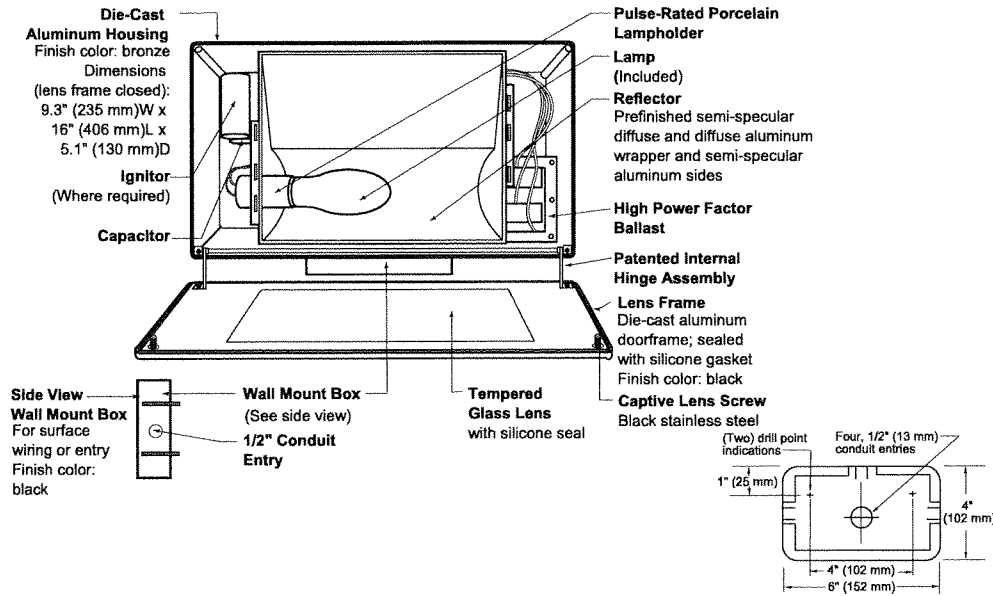
Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770.486.4800 FAX 770 466.4801 ADP012585
 Cooper Lighting 5925 McLaughlin Rd. Mississauga, Ontario, Canada L5R 1B8 905.507.4000 FAX 905.568.7049

WALL MOUNT

RECTANGULAR AREA CUTOFF FLOOD

TYPE "OE"

**LACW
SERIES**



SPEC #	WATTAGE	CATALOG #
PULSE START METAL HALIDE		
<input type="checkbox"/> SPEC #	125W PSMH	LACW612-(a)(b)
<input type="checkbox"/> SPEC #	150W PSMH	LACW615-(a)(b)
METAL HALIDE		
<input type="checkbox"/> SPEC #	50W MH	LACW405-(a)(b)
<input checked="" type="checkbox"/> SPEC #	70W MH	LACW407-(a)(b)
<input type="checkbox"/> SPEC #	100W MH	LACW410-(a)(b)
<input type="checkbox"/> SPEC #	175W MH	LACW417-(a)(b)
HIGH PRESSURE SODIUM		
<input type="checkbox"/> SPEC #	35W HPS	LACW503-(a)(b)
<input type="checkbox"/> SPEC #	50W HPS	LACW505-(a)(b)
<input type="checkbox"/> SPEC #	70W HPS	LACW507-(a)(b)
<input type="checkbox"/> SPEC #	100W HPS	LACW510-(a)(b)
<input type="checkbox"/> SPEC #	150W HPS	LACW515-(a)(b)

Specify (a) Voltage & (b) Options.

(a) VOLTAGE SUFFIX KEY	
D	120/277V (Standard: 125W PSMH; 50 – 100W MH; 50W HPS)
M	120/208/240/277V (Standard: 150W PSMH; 175W MH; 70 – 150W HPS)
T	120/277/347V (Canada Only) (Standard: 150W PSMH; 70 – 175W MH; 70 – 150W HPS)
1	120V (Standard: 35W HPS)
2	277V
27	277V Reactor (150W PSMH Only)
3	208V
4	240V
5	480V (175W MH; 70 – 100W HPS)
6	347V (Canada Only)

For voltage availability outside the US and Canada, see Bulletin TD-9 or contact your Ruud Lighting authorized International Distributor.

(b) OPTIONS (factory-installed)	
-(a)F	Fusing
J	Tamperproof Lens Fasteners
-(a)P	Button Photocell
-5P	External Photocell (for 480V)

Specify (a) Single Voltage — See Voltage Suffix Key

TYPE OE

CAT. NO.: LACW407-D

NOTE: Mounted Above Overhead Door

BAER INSURANCE BUILDING

GENERAL DESCRIPTION

60° forward throw sharp cutoff luminaire with adjustable backlight control for HID lamp, totally enclosed. Backlight shield provides precise cutoff adjustability from 0° (nadir) to 30° (house-side). Housing is seamless, die-cast aluminum. Fixture mounts to wall with a 4" (102 mm) x 6" (152 mm) x 1.4" (36 mm) cast aluminum mounting box and gasket. Two 5/16" threaded mounting rods are supplied with nuts and sealing washers to attach fixture to mounting box. Also provided are four threaded and closed 1/2" conduit entries. Lens assembly consists of rigid aluminum frame, high-impact, clear-tempered glass, and backlight shield.

ELECTRICAL

Fixture includes clear, medium-base lamp. Pulse-rated porcelain enclosed, 4kv-rated screw-shell-type lampholder with quick disconnect. Lamp ignitor included where required. All ballast assemblies are high-power factor and use the following circuit types:

Reactor (277V PSMH)
150W PSMH

Reactor
120V: 35 – 150W HPS

HX — High Reactance
50 – 100W MH; 50 – 150W HPS

CWA — Constant Wattage Autotransformer
125 & 150W PSMH; 175W MH

LABELS

ANSI lamp wattage label supplied, visible during relamping. UL Listed in US and Canada for wet locations.

FINISH

Exclusive DeltaGuard® finish features an E-coat epoxy primer with medium bronze ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. The finish is covered by our seven-year limited warranty.

PATENT

US 4,689,729

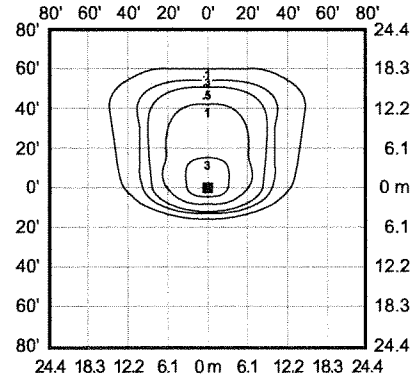
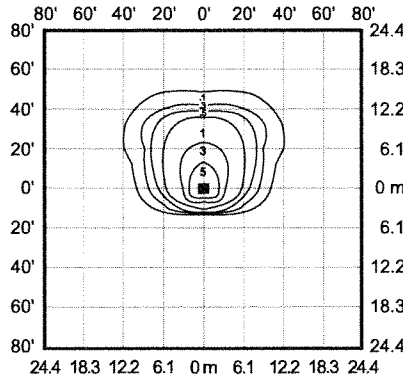
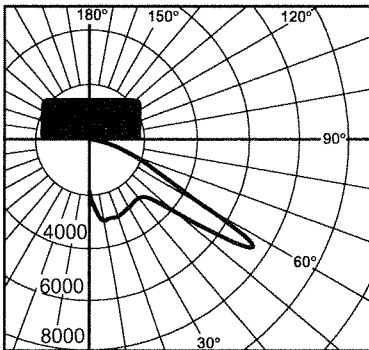
ACCESSORIES

LS-L	Polycarbonate Vandal Shield (not for use with fixtures in upright position)
TPS-1	Tamperproof Screwdriver
WG-L	Wire Guard



EPA RATING

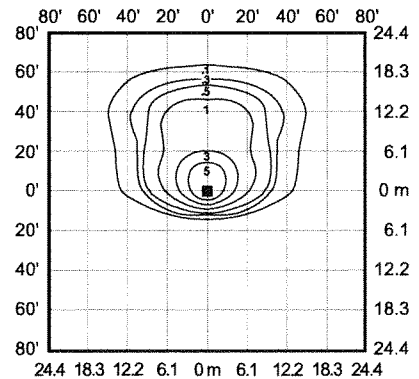
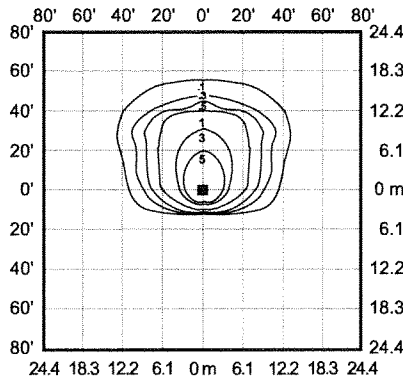
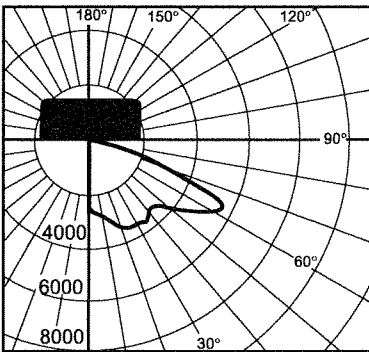
EPA 0.60 for single fixture with 0° tilt (Consult factory for EPA rating on multiple units).



Lighting Sciences Inc.
Certified Test Report No. LSI 10695
Candlepower distribution curve of 175W MH
Rectangular Area Cutoff Floodlight, with back-
light shield located for backlight cutoff.

Isofootcandle plot of 175W MH Area
Cutoff Floodlight at 15' (4.6 m) mounting
height, 0° vertical tilt, with backlight
shield located for backlight cutoff.
(Plan view)

Isofootcandle plot of 175W MH Area
Cutoff Floodlight at 20' (6.1 m) mounting
height, 0° vertical tilt, with backlight
shield located for backlight cutoff.
(Plan view)



Lighting Sciences Inc.
Certified Test Report No. LSI 11233
Candlepower distribution curve of 150W HPS
Rectangular Area Cutoff Floodlight, with back-
light shield located for backlight cutoff.

Isofootcandle plot of 150W HPS Area
Cutoff Floodlight at 15' (4.6 m) mounting
height, 0° vertical tilt, with backlight
shield located for backlight cutoff.
(Plan view)

Isofootcandle plot of 150W HPS Area
Cutoff Floodlight at 20' (6.1 m) mounting
height, 0° vertical tilt, with backlight
shield located for backlight cutoff.
(Plan view)