

ORDERING INFORMATION

The following information illustrates the correct way to enter an order for SSS5A20SFM1XG. The ordering designation is detailed as follows.

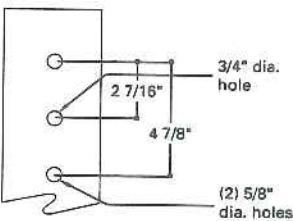
Square	Straight	Steel	Shaft ³ Size	Wall Thickness	Mounting Height (ft.)	Base Type	Finish	Fixture Mounting & Type	No. & Location of Arms	Arm Lengths	Accessories (Ground Lug)
S	S	S	5	A	20	S	F	M	1	X	G

Mtg. Height	Catalog ^{1, 2} Number	Wall Thickness	Base Square		Bolt Circle Dia. (In.)	Bolt Proj. (In.)	Shaft Size (In.)	Anchor Bolt Dia. & Length (In.)	Net. Wt. (Lbs.)	EPA At Pole Top (Sq. Ft.)			EPA (Sq. Ft.) ⁴ 2' Above Pole Top			Max. Fixture Load—Include Bracket (Lbs.)
			S	BC						B	AB	80	90	100	80	
10	SSS4A10SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	96	28.5	22.1	17.5	20.3	15.8	12.5	150	
15	SSS4A15SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	133	17.3	13.0	9.9	10.9	8.2	6.2	150	
20	SSS4A20SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	152	8.5	5.9	4.1	7.0	4.9	3.4	200	
25	SSS4A25SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	208	4.7	2.7	1.2	4.0	2.3	N/A	200	
20	SSS5A20SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	202	15.1	11.0	8.0	12.6	9.1	6.7	200	
25	SSS5A25SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	248	9.7	6.4	4.0	8.3	5.5	3.4	200	
30	SSS5A30SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	293	5.4	2.6	N/A	4.3	2.1	N/A	300	
35	SSS5M35SF	.188	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	480	6.6	3.4	N/A	5.9	3.1	N/A	300	
25	SSS6A25SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	295	16.0	11.1	7.6	13.7	9.6	6.6	200	
30	SSS6A30SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	347	10.3	6.2	3.3	8.2	5.0	2.6	300	
30	SSS6M30SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	505	20.2	14.1	9.7	16.1	11.2	7.7	300	
35	SSS6M35SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	584	12.5	7.8	N/A	11.3	7.0	4.0	300	
35	SSS6X35SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	696	19.1	13.0	8.6	17.0	11.6	7.7	300	
39	SSS6M39SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	647	8.8	4.5	1.4	7.9	4.1	N/A	300	
39	SSS6X39SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	822	14.6	9.1	5.2	13.2	8.2	4.7	300	

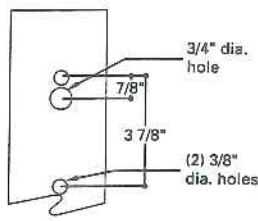
NOTES: ¹ Catalog number includes pole with anchor bolts with double nuts (BEFORE INSTALLING ANCHOR BOLTS MAKE SURE PROPER ANCHOR BOLT TEMPLATE IS OBTAINED FROM COOPER LIGHTING HEADQUARTERS). ² Tenon size or machining for rectangular arms must be specified. Handhole is located 180° from single arm. ³ Shaft size, base plate, anchor bolts and projections may vary slightly—all dimensions nominal. ⁴ EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.

DRILLING PATTERN

Type "M"

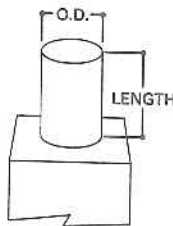


Type "E"



MOUNTING OPTIONS (add as suffix)

Fixed Tenon



Designation Number	O.D. (In.)	Length (In.)
1	2 3/8	3 1/2
2	2 3/8	4
3	3 1/2	5
9	3	4

MACHINING FOR RECTANGULAR ARMS (add as suffix)

Designation Letter & Number	Designation Letter & Number	Quantity & Location
M1	E1	Single
M2	E2	2 @ 180°
M3	E3	3 @ 90°
M4	E4	4 @ 90°
M5	E5	2 @ 90°

NOTES: ¹ Arm mounting holes located 45° from base holes.

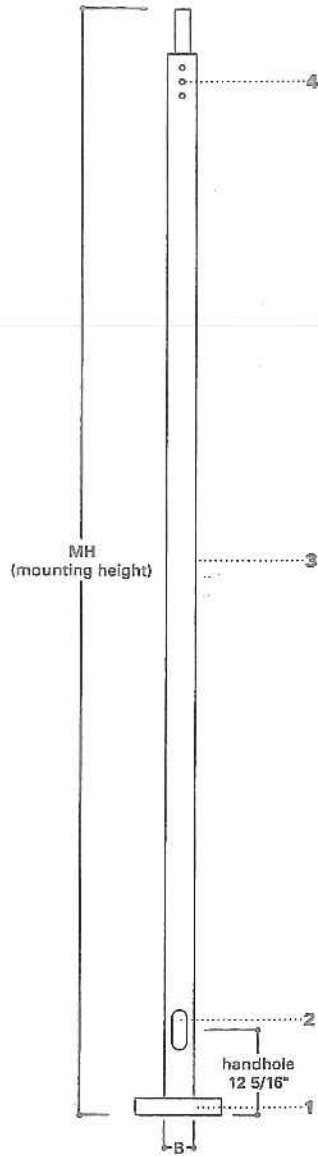
ACCESSORIES

- A=1/2" tapped hub¹
- B=3/4" tapped hub¹
- C=Convenience outlet²
- G=Grounding lug (max. wire #8 AWG)
- H=Additional handhole and cover—
12" below pole top—90° from handhole.

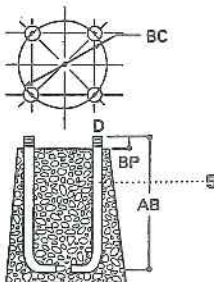
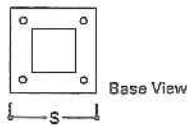
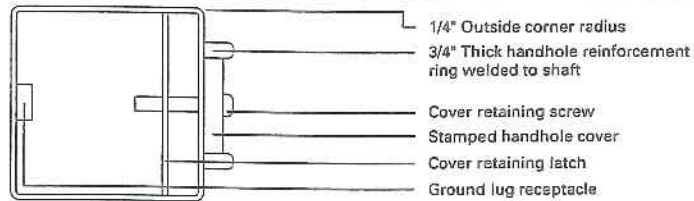
NOTES: ¹ Location is 3' above base—90° from handhole.
² Outlet is located 4' above base and on same side of pole as handhole, unless specified otherwise. Receptacle not included, provision only.

DETAILS

REFER TO CHART FOR DIMENSIONAL INFORMATION



HANDHOLE (section through standard handhole)



SPECIFICATIONS

- 1...ASTM Grade steel base plate with ASTM A366 base cover.
- 2...Handhole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole.
- 3...ASTM A500 grade "B" steel shaft. Shot blasted and painted with polyester powder coat.
- 4...Drilled or Tenon (specify).
- 5...Anchor bolt per ASTM A576 with (2) nuts, (2) flat washer, and (1) lock washer. Nuts, washers and threaded portion of bolt are hot dip galvanized 3" hook for 3/4" bolt. 4" hook for 1" bolt.

SSSSQUARE STRAIGHT STEEL

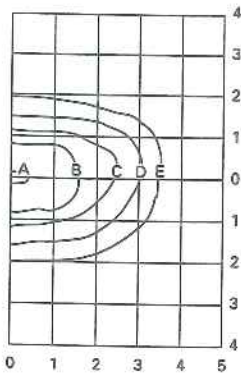
10'-39"
Mounting Height

SQUARE STRAIGHT STEEL

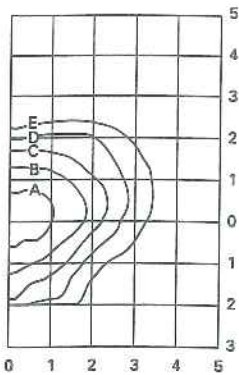
FINISH COLORS

- F=Dark Bronze
- G=Galvanized
- I=Royal Blue
- V=Grey
- W=White
- X=None
- Y=Black

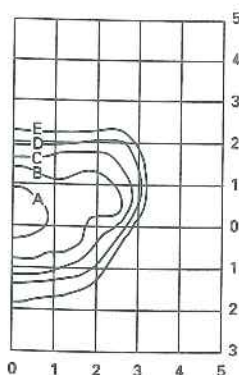
PHOTOMETRICS



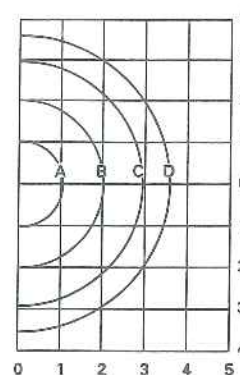
GM-1
GMA402291D
400-Watt HPS Type I
50,000-Lumen Clear Lamp



GM-2
GMA402292D
400-Watt HPS Type II
50,000-Lumen Clear Lamp



GM-3
GMA402293D
400-Watt HPS Type III
50,000-Lumen Clear Lamp



GM-4
GMA40229AR
400-Watt HPS Area Round
50,000-Lumen Clear Lamp

Footcandle Table

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting

Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	11.25	4.50	2.25	1.12	0.56
25'	7.20	2.88	1.44	0.72	0.36
30'	5.00	2.00	1.00	0.50	0.25
35'	1.58	1.18	0.79	0.39	0.19
40'	1.28	0.96	0.64	0.32	0.16

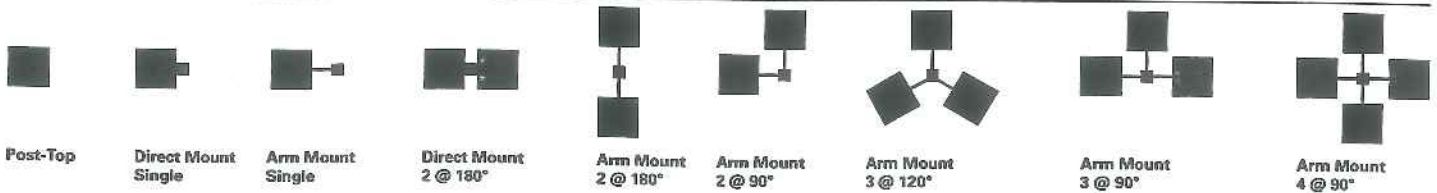
Footcandle Table

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting

Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	4.50	2.25	1.13	0.56	0.23
25'	2.83	1.14	0.72	0.36	0.14
30'	2.00	1.00	0.50	0.25	0.10
35'	1.47	0.73	0.37	0.18	0.07
40'	1.12	0.56	0.28	0.19	0.06

MOUNTING VARIATIONS



ORDERING INFORMATION

SAMPLE NUMBER: GMA252292D

G M A 2 5 2 2 9 3 V

Product Family
G=Galleria

Housing Size
M=Medium

Mounting Method
A=Arm
B=Spider for 2 3/8" O.D. tenon
C=Spider for 3 1/2" O.D. tenon

Lamp Wattage
25=250W
40=400W
91=1000W*

Lamp Type*
1=MH
2=HPS

Ballast Type
2=CWA
5=CWI

Voltage*
1=120V
2=208V
3=240V
4=277V
5=480V
9=Multi-Tap wired 277V*
6=Triple-Tap wired 347V*

Distribution*
1D=Type I MCO Horizontal
2D=Type II MCO Horizontal
3D=Type III MCO Horizontal
FT=Forward Throw Horizontal
AR=Area Round Vertical
AS=Area Square Vertical
RW=Rectangular Wide Vertical
3V=Vertical Type III

Options (add as suffix)
F=Single Fuse (120, 277 or 347V)
FF=Double Fused (208, 240 or 480V)
R=NEMA Twistlock Photocontrol Receptacle
Q=Quartz Restrike (Limit to 150W max. quartz lamp only. Lamp not included)
HS=House Side Shield
VS=Vandal Shield

Accessories (order separately)
MA1004=14" Arm for Square Pole. 1.0 EPA
MA1005=6" Arm for Square Pole. 0.5 EPA
MA1006=Direct Mount Kit for Square Pole
MA1007=14" Arm for Round Pole. 1.0 EPA
MA1008=6" Arm for Round Pole. 0.5 EPA
MA1009=Direct Mount Kit for Round Pole
MA1010=Single-arm Tenon Adapter for 3 1/2" O.D. Tenon
MA1011=2 @ 180° Tenon Adapter for 3 1/2" Tenon
MA1012=3 @ 120° Tenon Adapter for 3 1/2" O.D. Tenon
MA1013=4 @ 90° Tenon Adapter for 3 1/2" O.D. Tenon
MA1014=2 @ 90° Tenon Adapter for 2 3/8" O.D. Tenon
MA1015=2 @ 120° Tenon Adapter for 3 1/2" O.D. Tenon
MA1016=3 @ 90° Tenon Adapter for 3 1/2" O.D. Tenon
MA1017=Single-arm Tenon Adapter for 2 3/8" Tenon
MA1018=2 @ 180° Tenon Adapter for 2 3/8" Tenon
MA1039=Wall Mount Bracket with 6" Arm (Specify Color)
QA1016=Photocontrol-Multi-Tap
QA1027=Photocontrol-480V
QA1201=Photoelectric Control, 347V NEMA Type
L=Lamp Included

Catalog Number	Lamp Wattage	Lamp Type/Base	Ballast Type/Power Factor	Voltage	Size	EPA	Net Wt. (lbs.)	Shipping Volume (cu. ft.)
Arm Mount (Order arm separately)								
GMA25229XX	250	HPS/Mogul	CWI	Multi-Tap	Medium	2.4	69	5.3
GMA40229XX	400	HPS/Mogul	CWA	Multi-Tap	Medium	2.4	69	5.3
Spider Mount (For 2 3/8" O.D. tenon)								
GMB25229XX	250	HPS/Mogul	CWI	Multi-Tap	Medium	2.4	62	8.9
GMB40229XX	400	HPS/Mogul	CWA	Multi-Tap	Medium	2.4	62	8.9
Spider Mount (For 3 1/2" O.D. tenon)								
GMC25229XX	250	HPS/Mogul	CWI	Multi-Tap	Medium	2.4	64	8.9
GMC40229XX	400	HPS/Mogul	CWA	Multi-Tap	Medium	2.4	64	8.9

NOTES: * Arm not included. See accessories.

* Requires reduced envelope BT-37 lamp.

* All lamps are mogul-base. Lamps are not included.

* Product also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information.

* Multi-Tap ballast is 120/208/240/277V. Triple-Tap ballast is 120/277/347V.

* Designate distribution by changing 9th and 10th digits.

Colors (add as suffix)
_ =Bronze (standard)
AP=Grey
BK=Black
WH=White

TYPE:

CATALOG #: *GMA 252293 V*

McGRAW-EDISON

DESCRIPTION

McGraw-Edison's Galleria combines beauty and versatility to make it an excellent choice for architects, specifiers and contractors in today's energy- and design-conscious environment. An aesthetic reveal in the formed aluminum housing gives the Galleria a distinctive look while a variety of mounting options and lamp wattages provide maximum flexibility.

APPLICATION

The Galleria achieves superior light distribution by utilizing a seamless reflector system, making it the optimum choice for almost any small or medium area lighting application.

SPECIFICATION FEATURES

A--Housing

Formed aluminum housing with stamped reveal has interior-welded seams for structural integrity and is finished in polyester powder coat. U.L. listed for wet locations. CSA certified.

B--Ballast Tray

Ballast tray is hard-mounted to housing interior for cooler operation.

C--Ballast

Long-life core and coil ballast.

D--Reflector

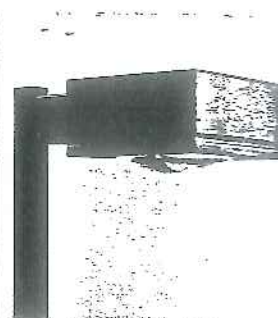
Spun and stamped aluminum reflector in vertical lamp units, or hydroformed anodized aluminum reflector in horizontal lamp units.

E--Door

Formed aluminum door has heavy-duty hinges, captive retaining screws and is finished in polyester powder coat. (Spider mount unit has steel door.)

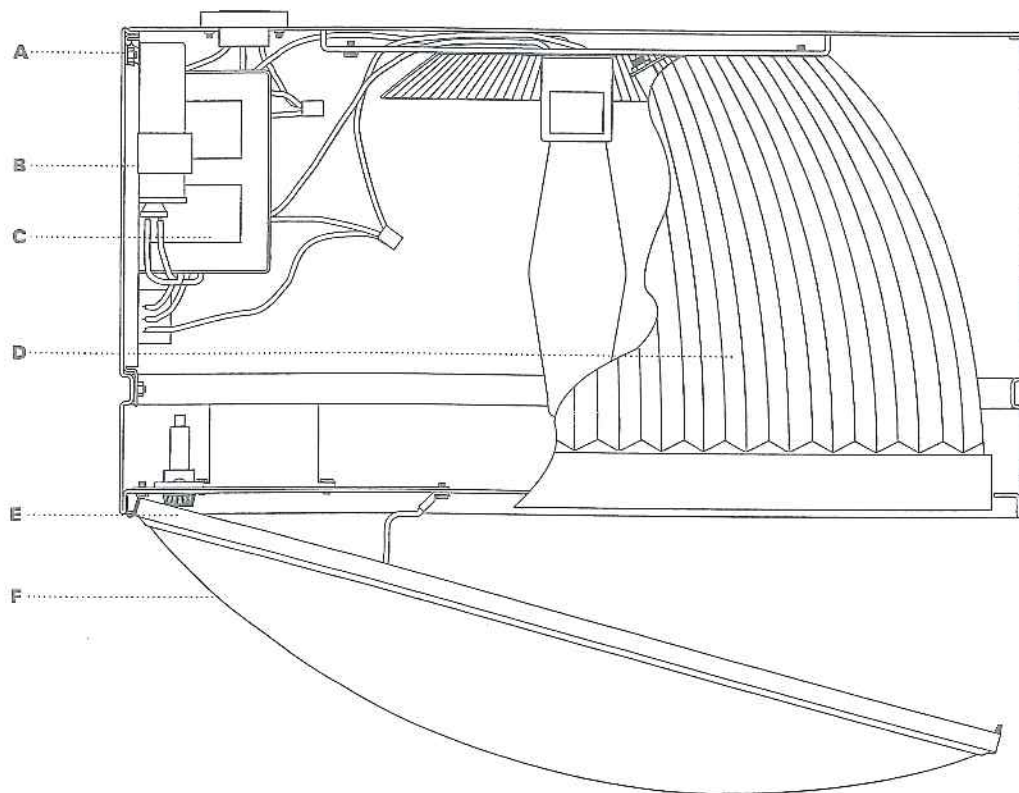
F--Lens

Convex tempered glass lens.

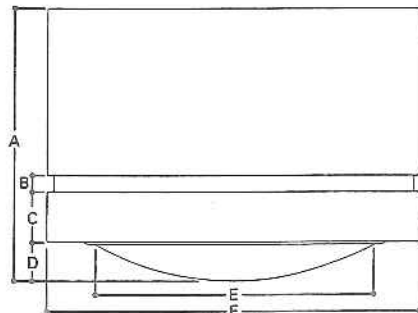


GMGALLERIA

250 - 1000 W
High Pressure Sodium
ARCHITECTURAL
AREA LIGHT

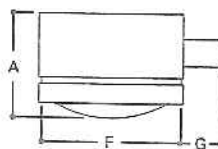


DIMENSIONS

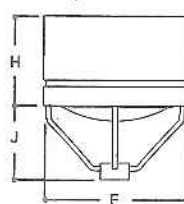


Fixture	A	B	C	D	E	F	G	H	J
Medium (in.)	14 1/2	3/4	1 1/2	3 1/2	19 1/4	21 3/4	6 or 14	11	15 or 16
(mm)	368	19	38	89	480	552	152 or 356	279	381 or 406

Arm Mount



Spider Mount



ENERGY DATA

CWI Ballast Input Watts
250W HPS HPF (300 Watts)

CWA Ballast Input Watts
400W HPS HPF (465 Watts)
1000W HPS HPF (1080 Watts)

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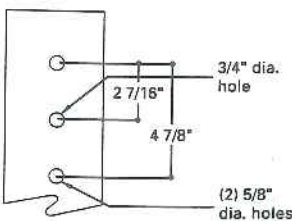
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S	S	S	5	A	20	S	F	M	1	X	G

Mtg. Height	Catalog Number ^{1,2}	Wall Thickness	Base Square (In.)	Bolt Circle Dia. (In.)	Bolt Proj. (In.)	Shaft Size (In.)	Anchor Bolt Dia. & Length (In.)	Net. Wt. (Lbs.)	EPA At Pole Top (Sq. Ft.)	EPA (Sq. Ft.) ⁴ 2' Above Pole Top	Max. Fixture Load—Include Bracket (Lbs.)				
MH			S	BC	BP	B	AB		80	90	100	80	90	100	
10	SSS4A10SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	96	28.5	22.1	17.5	20.3	15.8	12.5	150
15	SSS4A15SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	133	17.3	13.0	9.9	10.9	8.2	6.2	150
20	SSS4A20SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	152	8.5	5.9	4.1	7.0	4.9	3.4	200
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35	SSS5M35SF	.188	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	480	6.6	3.4	N/A	5.9	3.1	N/A	300
25	SSS6A25SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	295	16.0	11.1	7.6	13.7	9.6	6.6	200
30	SSS6A30SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	347	10.3	6.2	3.3	8.2	5.0	2.6	300
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35	SSS6M35SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	584	12.5	7.8	N/A	11.3	7.0	4.0	300
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39	SSS6X39SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	822	14.6	9.1	5.2	13.2	8.2	4.7	300

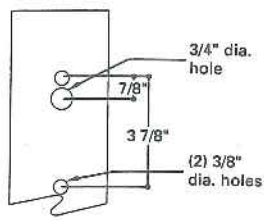
NOTES: ¹ Catalog number includes pole with anchor bolts with double nuts (BEFORE INSTALLING ANCHOR BOLTS MAKE SURE PROPER ANCHOR BOLT TEMPLATE IS OBTAINED FROM COOPER LIGHTING HEADQUARTERS). ² Tenon size or machining for rectangular arms must be specified. Handhole is located 180° from single arm. ³ Shaft size, base plate, anchor bolts and projections may vary slightly—all dimensions nominal. ⁴ EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.

DRILLING PATTERN

Type "M"

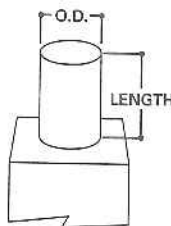


Type "E"



MOUNTING OPTIONS (add as suffix)

Fixed Tenon



Designation Number	O.D. (In.)	Length (In.)
1	2 3/8	3 1/2
2	2 3/8	4
3	3 1/2	5
9	3	4

MACHINING FOR RECTANGULAR ARMS (add as suffix)

Designation Letter & Number	Designation Letter & Number	Quantity & Location
M1	E1	Single
M2	E2	2 @ 180° 1
M3	E3	3 @ 90°
M4	E4	4 @ 90° 1
M5	E5	2 @ 90° 1

NOTES: ¹ Arm mounting holes located 45° from base holes.

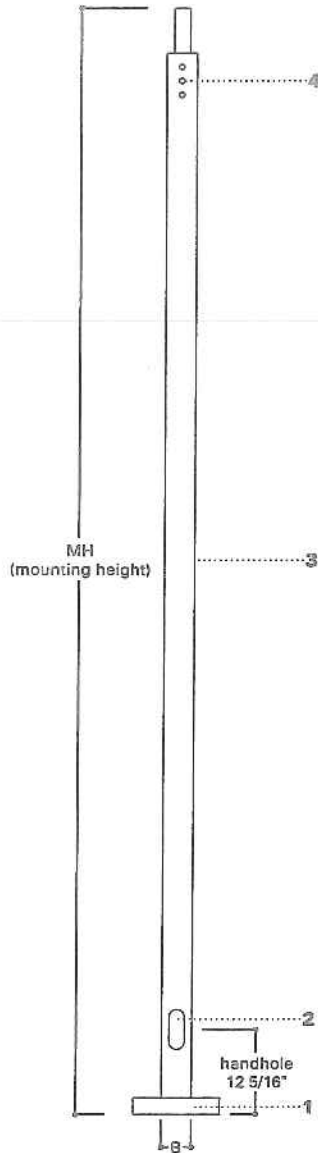
ACCESSORIES

- A=1/2" tapped hub ¹
- B=3/4" tapped hub ¹
- C=Convenience outlet ²
- G=Grounding lug (max. wire #8 AWG)
- H=Additional handhole and cover—
12" below pole top—90° from handhole.

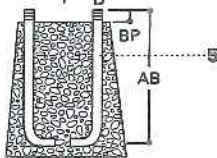
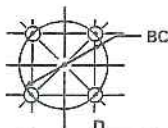
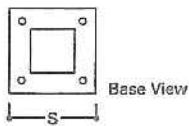
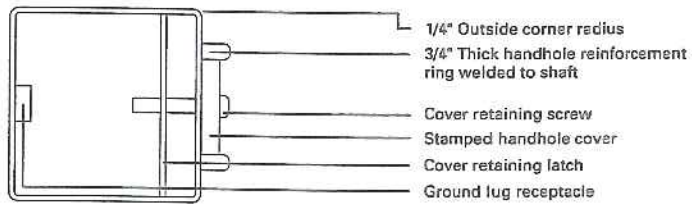
NOTES: ¹ Location is 3" above base—90° from handhole. ² Outlet is located 4' above base and on same side of pole as handhole, unless specified otherwise. Receptacle not included, provision only.

DETAILS

REFER TO CHART FOR DIMENSIONAL INFORMATION



HANDHOLE (section through standard handhole)



SPECIFICATIONS

- 1...ASTM Grade steel base plate with ASTM A366 base cover.
- 2...Handhole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole.
- 3...ASTM A500 grade "B" steel shaft. Shot blasted and painted with polyester powder coat.
- 4...Drilled or Tenon (specify).
- 5...Anchor bolt per ASTM A576 with (2) nuts, (2) flat washer, and (1) lock washer. Nuts, washers and threaded portion of bolt are hot dip galvanized 3" hook for 3/4" bolt. 4" hook for 1" bolt.

SSSSQUARE STRAIGHT STEEL

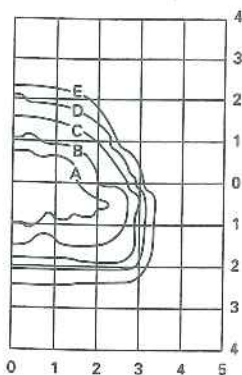
10'-39'
Mounting Height

SQUARE STRAIGHT STEEL

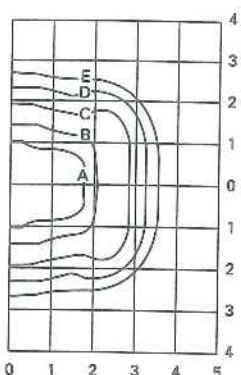
FINISH COLORS

- F=Dark Bronze
- G=Galvanized
- I=Royal Blue
- V=Grey
- W=White
- X=None
- Y=Black

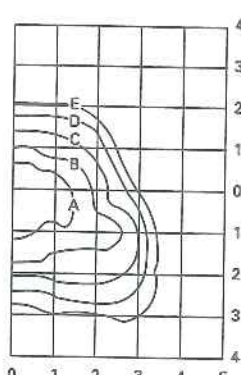
PHOTOMETRICS



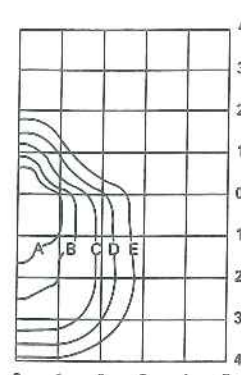
CS-1
CS7252
 250-Watt HPS Design 20
 30,000-Lumen Clear Lamp



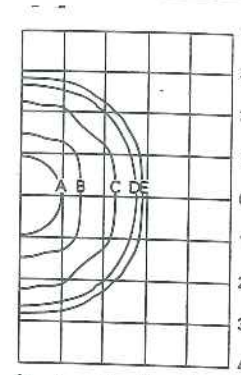
CS-2
CS7253
 250-Watt HPS Design 22
 30,000-Lumen Clear Lamp



CS-3
CS7252
 250-Watt HPS Design 30
 30,000-Lumen Clear Lamp



CS-4
CS7254
 250-Watt HPS Design 40
 30,000-Lumen Clear Lamp



CS-5
CS7255
 250-Watt HPS Design 50
 30,000-Lumen Clear Lamp

Footcandle Table

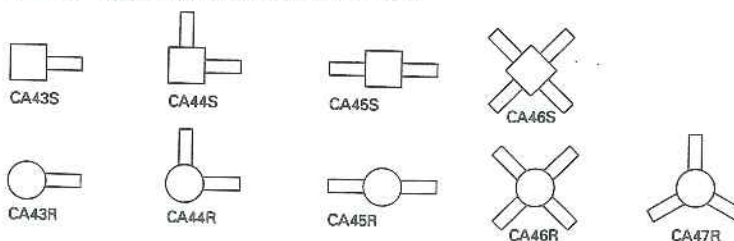
Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
15'	6.6	3.3	1.4	0.6	0.3
20'	3.7	1.9	0.8	0.3	0.2
25'	2.4	1.2	0.5	0.2	0.1
30'	1.7	0.8	0.3	0.1	0.1

For 400W HPS, multiply footcandle readings by 1.67.

Pole Top Mounting for Square and Round Poles (order separately)

Slipfitter accommodates 2 3/8" - 3" O.D. pole top tenons. Catalog number includes slipfitter and mounting arm(s). Square unit height is 6 1/4". Round unit height is 6 3/4".



ORDERING INFORMATION

SAMPLE NUMBER: CS72529

C **S** **7** **2** **3** **9** **9**

Product Family
 C=Concourse III

Mounting Method
 S=Mast Arm

Housing Series
 7=7000

Lamp Type
 2=HPS

Lamp Wattage
 1=70W
 2=100W
 3=150W
 5=250W
 6=400W

Optics
 2=Design 20/30
 3=Design 22
 4=Design 40
 5=Design 50

Voltage¹
 1=120V
 2=208V
 3=240V
 4=277V
 5=480V
 6=Triple-Tap²
 9=Multi-Tap²

CA40-B7

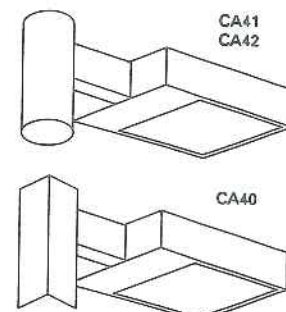
Options (add as suffix)
 F=Single Fuse (120, 277 or 347V)
 FF=Double Fused (208, 240 or 480V)
 V=Vandal Shield
 O=Quartz Restrike (Limit to 150W max. quartz lamp only. Lamp not included.)
 R=NEMA Twistlock Photocontrol Receptacle

Accessories (order separately)
 P=Button-type Photocontrol, Field Installed.
 CA11=House Side Shield—Design 20
 CA14=Wall Mount Adapter
 CA18=House Side Shield—Design 40
 CA40=Direct Arm Mount for Square Pole (EPA 0.2)
 CA41=Direct Arm Mount for 3" Diameter Round Pole (EPA 0.2)
 CA42=Direct Arm Mount for 3 1/2" - 4" Diameter Round Pole (EPA 0.2)
 OA1016=Photocontrol-Multi-Tap
 OA1027=Photocontrol-480V
 OA1201=Photoelectric Control, 347V NEMA Type
 L=Lamp Included

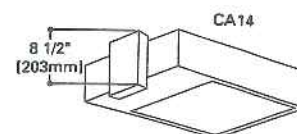
Catalog Number	Lamp Wattage	Lamp Type/Base	Ballast Type/Power Factor	Optics	Mounting Type ^{3,4}	EPA ⁵	Net Wt. (lbs.)	Shipping Volume (cu. ft.) ⁶
CS7212	70	HPS	Hi.-X/HPF	20/30	Mast Arm	0.9	26	2.15
CS7222	100	HPS	Hi.-X/HPF	20/30	Mast Arm	0.9	28	2.15
CS7232	150	HPS	Hi.-X/HPF	20/30	Mast Arm	0.9	28	2.15
CS7252	250	HPS	CWI/HPF	20/30	Mast Arm	0.9	34	2.15
CS7262	400	HPS	CWA/HPF	20/30	Mast Arm	0.9	36	2.15
CS7213	70	HPS	Hi.-X/HPF	22	Mast Arm	0.9	30	2.15
CS7223	100	HPS	Hi.-X/HPF	22	Mast Arm	0.9	28	2.15
CS7233	150	HPS	Hi.-X/HPF	22	Mast Arm	0.9	28	2.15
CS7253	250	HPS	CWI/HPF	22	Mast Arm	0.9	34	2.15
CS7263	400	HPS	CWA/HPF	22	Mast Arm	0.9	36	2.15
CS7214	70	HPS	Hi.-X/HPF	40	Mast Arm	0.9	26	2.15
CS7224	100	HPS	Hi.-X/HPF	40	Mast Arm	0.9	28	2.15
CS7234	150	HPS	Hi.-X/HPF	40	Mast Arm	0.9	28	2.15
CS7254	250	HPS	CWI/HPF	40	Mast Arm	0.9	34	2.15
CS7264	400	HPS	CWA/HPF	40	Mast Arm	0.9	36	2.15
CS7215	70	HPS	Hi.-X/HPF	50	Mast Arm	0.9	26	2.15
CS7225	100	HPS	Hi.-X/HPF	50	Mast Arm	0.9	28	2.15
CS7235	150	HPS	Hi.-X/HPF	50	Mast Arm	0.9	28	2.15
CS7255	250	HPS	CWI/HPF	50	Mast Arm	0.9	34	2.15
CS7265	400	HPS	CWA/HPF	50	Mast Arm	0.9	36	2.15

NOTES: ¹ Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information.
² Multi-Tap ballast is 120/208/240/277V. Triple-Tap ballast is 120/277/347V.
³ For Spider Mount, substitute "Q" for "S" in the catalog number.
⁴ Bracket arms are not included with standard unit. One bracket arm must be ordered for each standard unit (see Accessories).
⁵ EPA is 1.3 with Spider Mount.
⁶ Shipping volume is 5.50 cu. ft. for Spider Mount version.

DIRECT ARM MOUNTINGS



WALL MOUNT ADAPTER



DESCRIPTION

The McGraw-Edison Concourse III is the most versatile, functionally designed, universally adaptable outdoor lighting available. Through a variety of mounting styles, it offers a family of low profile sharp-cutoff luminaires that make optimum use of today's high output HID sources.

APPLICATION

Enhancing natural landscapes as well as cityscapes, the Concourse III brings outstanding performance and style to walkways, parking lots, roadways, loading docks, building areas, and any security lighting application. U.L. listed for wet locations. CSA certified.

SPECIFICATION FEATURES

A...Latches
Two spring-steel quick release latches on housing for toolless entry.

B...Socket
Porcelain mogul-base screw shell type lamp socket with spring-loaded center contact.

C...Housing
One-piece, die-cast aluminum housing features aesthetically pleasing soft-corner design.

D...Gasketing
Closed cell gas-filled high temperature silicone gasketing completely seals optical system from dirt, bugs or other foreign material.

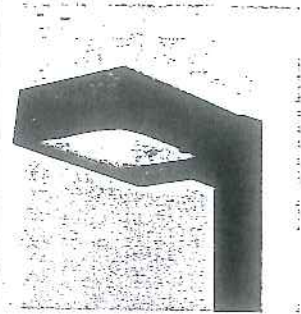
E...Lens
Thermal shock- and impact-resistant clear tempered glass.

F...Optics
One-piece hydroformed anodized aluminum reflectors provide five different optical distributions and sharp cutoff control.

G...Mounting
Universal mounting clamp concealed in housing fits 1 1/2" to 2 3/8" O.D. horizontal tenons without adapters. Provides a +5° vertical leveling adjustment.

H...Ballast
Easily removable high power factor HID Multi-Tap ballast is standard.

J...Hinges
Integral hinges prevent door rocking and optimize sealing capabilities.

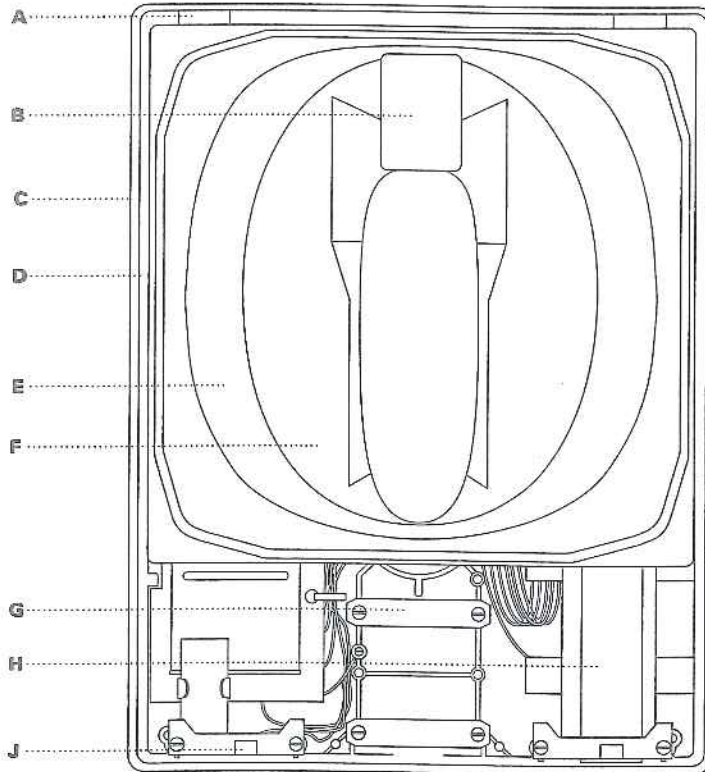


CSCONCOURSE III

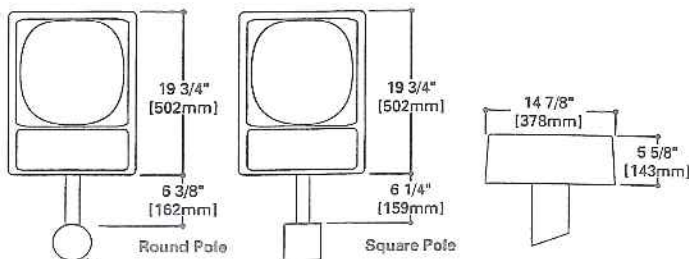
70-400 W

High Pressure Sodium

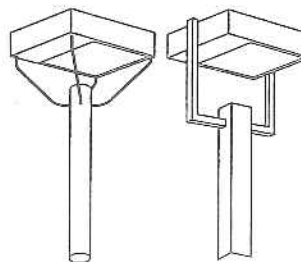
ARCHITECTURAL AREA LIGHT



DIMENSIONS



SPIDER/YOKE MOUNTS



ENERGY DATA

Hi-Reactance Ballast Input Watts
70W HPS HPF (95 Watts)
100W HPS HPF (130 Watts)
150W HPS HPF (190 Watts)

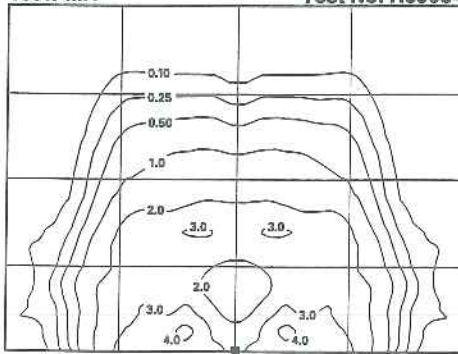
CWI Ballast Input Watts
250W HPS HPF (300 Watts)

CWA Ballast Input Watts
400W HPS HPF (465 Watts)

PHOTOMETRICS

Candlepower Distribution

100w MH Test No. H39084



8' Mounting Height. Grids in units of Mounting Height.

Footcandle Multipliers

For other than 8' mounting heights use appropriate multiplier value:

6'	8'	10'	12'	14'
x1.7	x1.0	x0.64	x0.44	x0.32

ORDERING INFORMATION

SAMPLE NUMBER: HCW-70S-120-92/82

Series	Lamp Type	Voltage ¹	Lens Type	Options (add as suffix)
HCW	100S	120V	1	BL
HCW=Wall Mount H.I.D.	35S=35W HPS 50S=50W HPS 70S=70W HPS 100S=100W HPS 70M=70W MH 100M=100W MH 150M=150W MH *All Medium Base	120=120V 277=277V ¹	Fixture Side / Environmental Side ² 92=.156 Clear Tempered Glass 93=.156 Prismatic Tempered Glass 82=.187 Prismatic ² Polycarbonate 85=.187 Clear ¹ Polycarbonate 94=.187 Clear Tempered Glass	F1=Single Fuse F2=Double Fuse Housing Finishes BLK=Black WHT=White

Notes:
Specifications and Dimensions subject to change without notice.

¹ 277V not available with 35W and 50W HPS
² Polycarbonate lens is available only with a glass lens on the fixture side

TYPE:

CATALOG #: *HCW-1005-Black*

FAIL-SAFE

DESCRIPTION

The Fail-Safe HCW series combines corrosion resistant construction features with energy saving HID technology. This cutoff style luminaire utilizes an aluminum housing with an unobtrusive tapered shape. It's .063" aluminum housing is sealed with gasketing to protect it from the environment. Fixture is U.L. listed for wet locations.

APPLICATION

The HCW with outstanding cutoff eliminates glare and satisfies light trespass requirements. This fixture is ideal for swimming pool areas, office buildings, walkways, warehouses and landscaping.

SPECIFICATION FEATURES

A---Housing

Die formed .063" aluminum housing fully seam welded. The housing rotates on a continuous hinge for easy relamping. Standard powder coat bronze paint. Other finish options available.

B---Reflector

Aluminum specular reflector for maximum efficiency.

C---Lens

Choice of tempered glass and polycarbonate combination or tempered glass only. See Lens Options.

D---Gasket

Non-shrinking, double-baked neoprene gasketing seals out the environment.

E---Fasteners

Two (2) stainless steel tamperproof screws prevent unauthorized access.

F---Lamp

(By Others)

G---Socket

Medium base porcelain socket.

H---Ballast

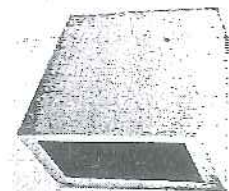
Core and coil ballast standard. High power factor.

I---Hinge

Continuous piano hinge welded to housing.

Labels

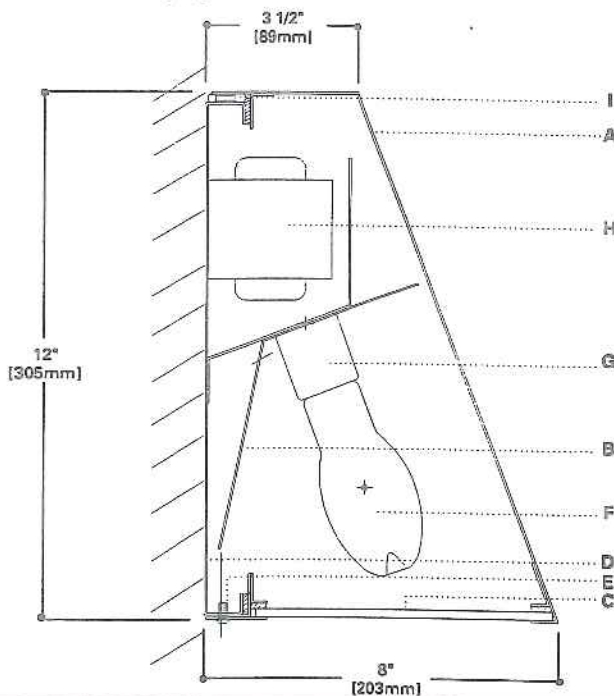
U.L. listed. Wet location.



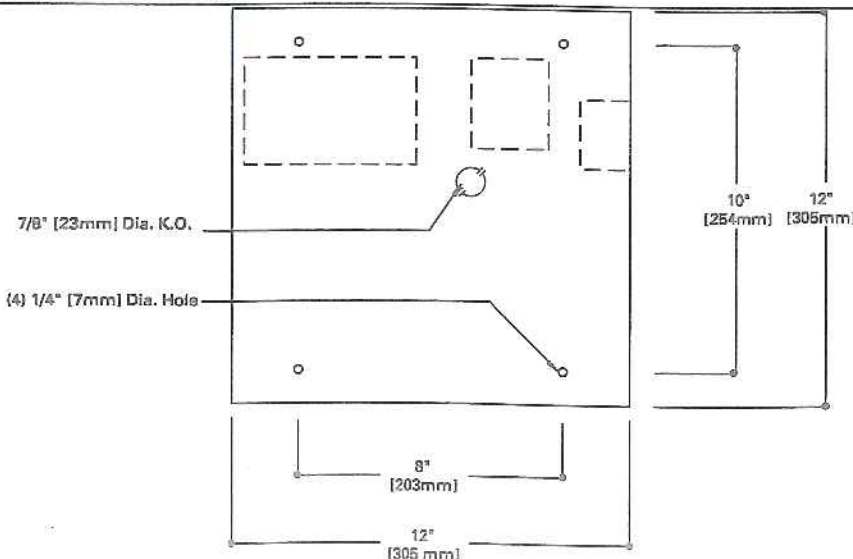
HCW

35 W - 100 W
High Pressure Sodium
35 W - 150 W
Metal Halide

WALL MOUNT
PERIMETER
DOWNLIGHT
LUMINAIRE



MOUNTING DIMENSIONS



ENERGY DATA

For Energy Management related technical data to support the performance of this fixture series, refer to Ordering Information section for input wattages.

**CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM**

20000028
I. D. Number

Form Systems - John Lefevre

3/8/00

Applicant

Application Date

72 Auburn St, Portland, ME 04103

Form Systems Printing

Applicant's Mailing Address

Project Name/Description

Joseph Delaney

Waldron Way, Portland, Maine 04103

Consultant/Agent

Address of Proposed Site

797-4838 x106 775-2696 x43

306-B-018

Applicant or Agent Daytime Telephone, Fax

Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): New Building Building Addition Change Of Use Residential
 Office Retail Manufacturing Warehouse/Distribution Parking Lot Other (specify) _____

19,960 2.45 ind.
Proposed Building square Feet or # of Units Acreage of Site Zoning

Check Review Required:

- Site Plan (major/minor) Subdivision # of lots _____ PAD Review 14-403 Streets Review
 Flood Hazard Shoreland Historic Preservation DEP Local Certification
 Zoning Conditional Use (ZBA/PB) Zoning Variance Other _____

Fees Paid: Site Plan \$400.00 Subdivision _____ Engineer Review _____ Date: 3/8/00

DRC Approval Status:

Reviewer sarah

- Approved Approved w/Conditions see attache Denied

Approval Date 4/14/00 Approval Expiration 4/14/01 Extension to _____ Additional Sheets Attached

Condition Compliance signature steve b date _____

Performance Guarantee Required* Not Required

* No building permit may be issued until a performance guarantee has been submitted as indicated below

<input type="checkbox"/> Performance Guarantee Accepted	_____	_____	_____
	date	amount	expiration date
<input checked="" type="checkbox"/> Inspection Fee Paid	4/14/00	\$300.00	
	date	amount	
<input type="checkbox"/> Building Permit	_____		
	date		
<input type="checkbox"/> Performance Guarantee Reduced	_____	_____	_____
	date	remaining balance	signature
<input type="checkbox"/> Temporary Certificate Of Occupancy	_____	<input type="checkbox"/> Conditions (See Attached)	
	date		
<input type="checkbox"/> Final Inspection	_____	_____	
	date	signature	
<input type="checkbox"/> Certificate Of Occupancy	_____		
	date		
<input type="checkbox"/> Performance Guarantee Released	_____	_____	
	date	signature	
<input type="checkbox"/> Defect Guarantee Submitted	_____	_____	_____
	submitted date	amount	expiration date
<input type="checkbox"/> Defect Guarantee Released	_____	_____	
	date	signature	

JOSEPH DELANEY, ARCHITECT

DATE: April 7, 2000 .

TRANSMITTAL

TO: Ms. Sarah Hopkins
City of Portland Planning Office
389 Congress Street
Portland, Maine 04101

RE: Form Systems

WE ARE SENDING YOU THE FOLLOWING ITEMS:

X PRINTS	SHOP DRAWINGS	AS REQUESTED
LETTER	SAMPLE	FOR YOUR RECORDS
SPECIFICATIONS	ON LOAN	FOR REVIEW/COMMENT
ORIGINALS	FOR SUBMISSION	APPROVED AS NOTED
OTHERS	FOR BIDS DUE	PLAN SKETCH


NO. COPIES	DATE	DESCRIPTION
1	4/7/2000	Revised Site Drainage plans L1, L2
1	4/7/2000	Site Drainage Narrative by Ross Cudlitz, P.E.

REMARKS/MESSAGE:

Dear Sarah,

I have also dropped this package to Tony Lombardo for review. I hope this fills in the many voids in the first submission. Please contact me as soon as possible with any concerns.

Hoping that this is at least 95% adequate,


Joe Delaney

COPIES TO: FILE, John LeFevre, Tony Lombardo

FROM: Joe Delaney

APPLICATION FOR SITE PLAN APPROVAL

CITY OF PORTLAND

**FOR
FORM SYSTEMS**

APPLICANT:

Joseph A. Delaney
33 Hartley Street
Portland, Maine 04103

*DRAFT
2 PAGES*



Prepared by:

Ross A. Cudlitz, PE
Engineering Assistance & Design, Inc.
PO Box 794
South Freeport, Maine 04078
Ph/Fax: 207-846-0839
Cell/Voice/Pager 207-329-3615

Project Description

The Applicant proposes to erect a commercial building on the preapproved lot across from PSC Services in the Sawyer Industrial Park located on Waldron Way.

Erosion and Sedimentation Control

E & S notes and details can be found on the plans. Narrative and details conform to Best Management Practices.

Stormwater Management

Stormwater runoff from this site has been preapproved to discharge to the existing drainage easement west of the site. The particulars of this are:

- The roof runoff will infiltrate the surface via a stone splash pad around the building. Beneath the stone pad will be an 8-inch perforated exterior perimeter foundation drain encased in clean stone, surrounded by a geotextile fabric to prevent migration of fine soils. The geotextile will also serve as a witness marker for digging up the surface stone should it require replacement in the future due to clogging.
- The under drains will join into one solid 12 inch pipe and be day lighted to the west at approximately contour 65 into a level spreader approximately 100 feet from the stream which is located at the base of the slope.
- The eastern parking area will sheet flow to Waldron Way. Whereas the western parking area will sheet flow off the western edge and through the undisturbed woods before entering the aforementioned drainage easement.

Conclusion

The aforementioned erosion control and stormwater management practices proposed not anticipated to cause any off site impacts due to erosion or flooding.

D. RATT

Ross A. Cudlitz, PE
PO Box 794
So. Freeport, Maine 04078

Engineering Assistance & Design (EA&D), Inc.
Phone/Fax: 207 - 846 - 0839
Page: 207-681-9243

April 6, 2000

Mr. Joe Delaney
33 Hartley St.
Portland, Maine 04103

RE: Form Systems Site Plan - Portland

Joe:

Just a note to recap my conversations with the City Staff, Tony Lombardo, and yourself.

The City would like me to review and massage if necessary the E & S notes and intentions. Tony would like me to look over the stormwater and provide you with a narrative statement confirming your intentions so that there are no impacts to others.

I have looked over the plan and suggest the following right off:

- The eastern parking lot should be graded to flow to the street, the City agrees.
- The entrance to the western parking area should have a high spot 10 feet in from the curb line to prevent the road runoff from entering the site.
- The foundation under drain should be enlarged to 8 inches around the building and join at the northwest corner into a common 12-inch solid pipe. This is based on calculations.
- The outlet from the under drain/stormwater pipe will discharge into a level spreader around contour 64. This is consistent with water quality standards (details attached).
- A stabilized construction entrance is required to prevent mud tracking on public roads (detail attached).

A report and back up calculations will follow this letter. If you have any immediate questions please call. I will fax then mail a hard copy of the report.

Sincerely,



Ross A. Cudlitz, PE

797-0177

Planning & Urban Development

Joseph E. Gray Jr.
Director



CITY OF PORTLAND

March 11, 2000

John Lefevre
Form Systems
72 Auburn Street
Portland, Me 04103

Dear Mr. Lefevre:

We have received your site plan application for an industrial building on Waldron Way in the Sawyer Industrial Park.

I understand that due to time constraints, you have requested permission to clear trees from the site. As Planning Director, I will allow clearing of the site, with the exception of the 30ft preservation area along the rear property line, and the 75ft drainage easement along the northwest property line shared with lot #1.

Absolutely no other site work may commence until after site plan approval and the posting of a performance guarantee.

Please contact Sarah Hopkins with any questions.

Sincerely,

Joseph E. Gray, Jr.
Director of Planning and Urban Development

- cc.: Alexander Jaegerman, Chief Planner
- Sarah Hopkins, Senior Planner
- Steve Bushey, DRC
- Tony Lombardo, Public Works
- Michael Nugent, Inspections Manager

From: Anthony Lombardo
To: Sarah Hopkins
Date: Fri, Apr 14, 2000 3:24 PM
Subject: Form Systems

My review fees are as follows:

4 hours @ \$35 per hour = \$140.

City of Portland Planning Department

389 Congress Street, 4th Floor
Portland, ME 04101
207-874-8721 or 207-874-8719
Fax: 207-756-8258

FAX TRANSMISSION COVER SHEET

Date: 3/23
To: Joe Delaney
Company: _____
Fax #: 775-3631
From: Sarah Hopkins
RE: _____

The list from public works.
No surprises... they just need more
details.

-5

YOU SHOULD RECEIVE _____ PAGE(S),
INCLUDING THIS COVER SHEET.
IF YOU DO NOT RECEIVE ALL THE PAGES,
PLEASE CALL 207-874-8721 OR 207-874-8719.

From: Anthony Lombardo
To: Sarah Hopkins
Date: Thu, Mar 23, 2000 8:52 AM
Subject: Form Systems..Waldron Way....3/23/00

Sarah,

I've reviewed the proposal and plan dated 3/6/00 and have the following comments:

1. The only development sheet received at Public Works was sheet L1. This plan did not include, but should specify the following information:
 - a. Proposed pipe invert elevation information for the new building sanitary sewer connection. The connection as proposed will not be accepted by Public Works. The connection into the sewer should be made into the sewer main in Waldron Way.
 - b. Specified locations for the erosion and sediment control measure.
 - c. A written "erosion and sediment control plan" specified on the plans.
 - d. Installation details for the erosion and sediment control measures.
 - e. Proposed grading plan for the development site.
 - f. Construction detail for the proposed parking area.
 - g. Pipe size and outlet invert elevation for the proposed foundation drain
 - h. Construction detail for sanitary sewer trench and connection within the Waldron Way right of way.
 - i. The applicant must submit a "stormwater management" narrative for this development site.
 - j. Granite Curb must be specified at the two (2) proposed entrances.



CITY OF PORTLAND

13 March 2000

Mr. Joseph A. Delaney,
Architect,
33 Hartley Street,
Portland, Maine 04103

RE: The Capacity to Handle an Anticipated Increase in Wastewater Flows, from the Proposed Printing Company, "Form Systems," #68 Waldron Way, Sawyer Industrial Park, via the City Sewer System, and The Portland Water District Sewage Treatment Facilities.

Dear Mr. Delaney:

The existing eight inch diameter polyvinyl chloride (PVC) sanitary sewer pipe located in Riverside Street, at Industrial Way, and the Portland Water District sewage treatment facilities, in the City of Portland, have adequate capacity to transport and treat the anticipated wastewater flows of 800 GPD, from your proposed printing company, to be located at #68 Waldron Way, City of Portland.

Anticipated Wastewater Flows from the Proposed Printing Company

Proposed 40 Employees @ 20 GPD/Employee	= 800 GPD
Total Proposed Increase in Wastewater Flows for this Project	= 800 GPD

The City combined sewer overflow (C.S.O.) abatement consent agreement, with the U.S.E.P.A. and the Maine D.E.P., requires C.S.O. abatement, as well as stormwater mitigation, in order to offset any increase in sanitary flows, from all projects.

If I can be of further assistance, please call me at 874-8832.

Sincerely,
CITY OF PORTLAND

Frank Brancely
Frank J Brancely, B.A., and M.A.
Senior Engineering Technician

FJB

- cc: Joseph E. Gray, Director, Department of Planning, and Urban Development, City of Portland
- ✓ Sarah G. Hopkins, Senior Planner, Department of Planning, & Urban Development, City of Portland
- Katherine A. Staples, P.E., City Engineer, City of Portland
- Bradley A. Roland, P.E., Environmental Projects Engineer, City of Portland
- Anthony W. Lombardo, P.E., Project Engineer, City of Portland
- Stephen K. Harris, Assistant Engineer, City of Portland
- Desk file

JOSEPH DELANEY, ARCHITECT

DATE: February 23, 2000**TRANSMITTAL**

TO: Ms. Sarah Hopkins
 City of Portland Planning Office
 389 Congress Street
 Portland, Maine 04101

RE:Form Systems

WE ARE SENDING YOU THE FOLLOWING ITEMS:

X PRINTS	SHOP DRAWINGS	AS REQUESTED
X LETTER	SAMPLE	FOR YOUR RECORDS
SPECIFICATIONS	ON LOAN	FOR REVIEW/COMMENT
ORIGINALS	FOR SUBMISSION	APPROVED AS NOTED
OTHERS	FOR BIDS DUE	PLAN SKETCH

NO. COPIES	DATE	DESCRIPTION
7	2/22/2000	Proposed Elevations and site plan
7	2/22/2000	Narrative
7	2/22/2000	Lighting study
7	2/22/2000	Sebago Technics original subdivision documents

REMARKS/MESSAGE:

Dear Sarah,

I have talked to Frank Brancely and sent him the required material. I trust this information is adequate for review, if there are details I will be glad to answer them ASAP. ASAP is relative, as I am leaving on a break to California for 10 days. I will be back after March 4. I have asked John to drop this info to you via the code enforcement office. If you need to talk to John, his number is 797-4838. Thanks for your help, talk to you soon.

Thanks,

Joe Delaney

COPIES TO: FILE, John LeFevre
FROM: Joe Delaney

 33 HARTLEY STREET, PORTLAND, ME. 04103

CORD 2-18-00
@ 3:22 pm
15329/77

WARRANTY DEED

KNOW ALL BY THESE PRESENTS, That SAWYER ENVIRONMENTAL SERVICES, f/k/a EAGLE EQUIPMENT COMPANY, INC., a Maine corporation, with a business address of 358 Emerson Mill Road, Hampden, Maine 04444, for consideration paid, grants to RUSSELL E. WOODS, JR., Trustee, of 43 Maine Avenue, Portland, Maine 04103, with Warranty Covenants, a certain lot or parcel of land situated in Cumberland County, Portland, Maine, and more particularly described on Exhibit A attached hereto and by reference incorporated herein.

WITNESS the following signature as of the 15th day of February, 2000.

WITNESS:

B. O. [Signature]

SAWYER ENVIRONMENTAL SERVICES, a Maine corporation, f/k/a Eagle Equipment Company, Inc.

By: [Signature]

Its: VICE PRESIDENT

JAMES M. HILTNER

STATE OF MAINE,
COUNTY OF CUMBERLAND, s.s.

On February 15, 2000, personally appeared the above-named JAMES M. HILTNER, as the VICE PRESIDENT of Sawyer Environmental Services, f/k/a Eagle Equipment Company, Inc., and acknowledged the foregoing to be his free act and deed in his said capacity and the free act and deed of said corporation.

Before me,

[Signature]

Notary Public ATTORNEY AT LAW

Printed Name: DENNIS C. KEELER

EXHIBIT A

A certain lot or parcel of land together with any buildings and improvements thereon situated in the City of Portland, County of Cumberland and State of Maine, and more particularly described as follows:

Lot #3 as shown on plan entitled Recording Plat of Sawyer Industrial Park, Riverside Street, Portland, Maine, dated March 6, 1989, and recorded in the Cumberland County Registry of Deeds in Plan Book 178, Page 50, to which plan reference may be had for a more particular description.

Also conveying an easement for all purposes of a way, including ingress and egress and installation and maintenance of utility lines, over Waldron Way as shown on said recorded plan.

This conveyance is made subject to pole line easement granted to S.D. Warren Company recorded in Cumberland County Registry of Deeds in Book 594, Page 106; easement granted to Phoenix Welding recorded in said Registry of Deeds in Book 8805, Page 27; easement to New England Telephone and Central Maine Power Company recorded in said Registry of Deeds in Book 8731, Page 164. This conveyance is also made subject to and with the benefit of all matters set forth on the above-referenced plan recorded in Plan Book 178, Page 150, including but not limited to a 75-foot drainage easement, a pump station easement and a 30-foot preservation area.

By acceptance of this deed, Grantee, and its successors and assigns, becomes a member of the Sawyer Industrial Park Lot Owners Association and agrees to pay its share of the expenses for maintaining the road, sewer, and common areas in the Industrial Park.

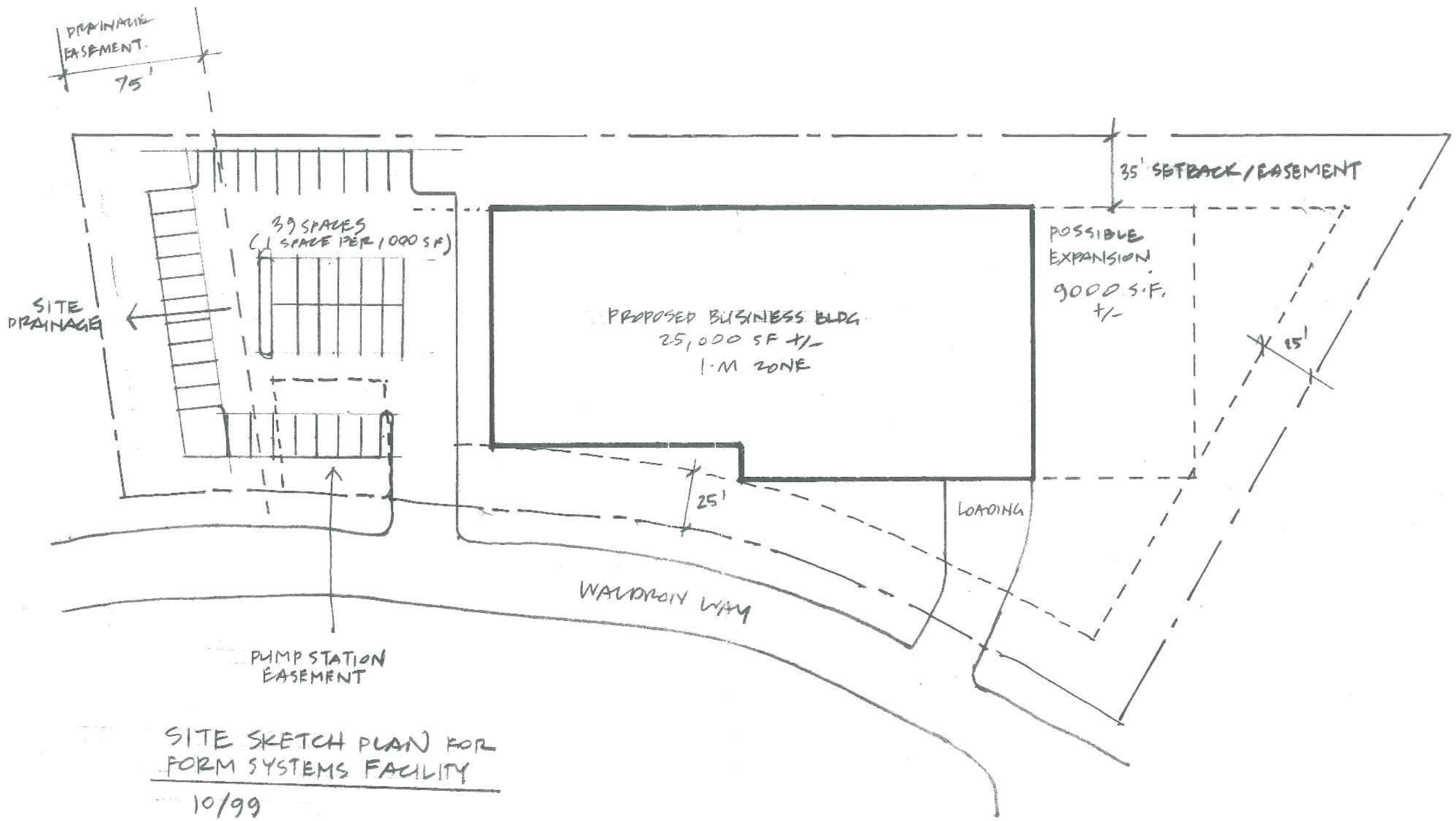
Page 1356 c (1) FormSystems is a family run business with four distinct business missions.

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PrecisionDirect markets and manufactures filing systems for the healthcare, banking and insurance markets.



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