



*State of Maine*  
*Department of Public Safety*  
**Construction Permit**



Reviewed  
for Barrier  
Free

# 15336

Not Sprinkled

**DAVIS DENTAL**

Located at: 2271 CONGRESS STREET  
**PORTLAND**

Occupancy/Use: BUSINESS

Permission is hereby given to:

MICHELLE & PETER DAVIS

22 STAPKEFORD DRIVE  
FALMOUTH, ME 04105

238AAS

to construct or alter the afore referenced building according to the plans hitherto filed with the Commisioner and now approved.

No departure from application form/plans shall be made without prior approval in writing. This permit is issued under the provision of Title 25, Chapter 317, Section 2448 and the provisions of Title 5, Section 4594 - F.

Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. Each permit issued shall be displayed/available at the site of construction.

*This permit will expire at midnight on the 6th of June 2006*

Dated the 7th day of December A.D. 2005

*Michael P. Cantara*

Commissioner

**Copy-3 Code Enforcement Officer**

Comments:

Code Enforcement Officer  
PORTLAND, ME

FROM :

FAX NO. : 2078395564

Oct. 19 2005 08:28AM P2

**Albert Frick Associates, Inc.****Soil Scientists & Site Evaluators**95A County Road Gorham, Maine 04038  
(207) 839-5563 FAX (207) 839-5564Albert Frick SS, SE  
James Logan SS, SE  
Matthew Logan SE  
Brady Frick, SE

238 A A 005

Enclosed are four copies of a completed subsurface wastewater disposal application and Replacement System Variance application. Please review and sign as applicant or property owner if the plans are acceptable to you. Submit three copies to the Local Plumbing Inspector in your town so that he/she can review the application. One or more of the requested variances exceed the Local Plumbing Inspector's authority to grant locally, and it will be required to be forwarded to the Division of Health Engineering for State review and approval. The other copy is intended for your contractor.

Please call Albert Frick Associates if you have any questions or if we can be of service to you in the future.

FROM :

FAX NO. :2078395564

Oct. 19 2005 08:28AM P3

**REPLACEMENT SYSTEM VARIANCE REQUEST****THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST**

This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-200 and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of LPI's authority.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 2008)
2. There will be no change in use of the structure except as authorized for minor expansions outside the shoreland zone of major waterbodies/courses.
3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
4. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

**GENERAL INFORMATION**Town of Portland

Permit No. \_\_\_\_\_

Date Permit Issued \_\_\_\_\_

Property Owner's Name: David DentalTel. No.: 767-9110System's Location: 2271 Congress StreetProperty Owner's Address: c/o David Cimino, Stroudwater Construction, 96 Ocean Street, Unit 1 South Portland(If different from above) ME 04106**SPECIFIC INSTRUCTIONS TO THE:****LOCAL PLUMBING INSPECTOR (LPI):**

If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

**SITE EVALUATOR:**

If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement Variance Request with your signature on reverse side of form.

**PROPERTY OWNER:**

If has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have concluded that a replacement system in total compliance with the Rules is not possible.

**PROPERTY OWNER**

I understand that the proposed system requires a variance to the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

\_\_\_\_\_  
SIGNATURE OF OWNER\_\_\_\_\_  
DATE**LOCAL PLUMBING INSPECTOR**

I, \_\_\_\_\_, the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement Variance Request, the Application, and my on-site investigation, I (check and complete either a or b):

☐ a. ( ☐ approve, ☐ disapprove ) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in Comments Section below and return to the applicant.

--OR--

☐ b. find that one or more of the requested Variances exceeds my approval authority as LPI. I ( ☐ recommend, ☐ do not recommend ) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, she shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments:

\_\_\_\_\_  
LPI SIGNATURE\_\_\_\_\_  
DATE

FROM :

FAX NO. : 2078395564

Oct. 19 2005 08:29AM P4

## Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
SOILS								
Soil Profile	Ground Water Table						to 7"	
Soil Condition	Restrictive Layer						to 7"	
from HHE-200	Bedrock						to 12"	
SETBACK DISTANCES (in feet)	Disposal Fields (total design flow)			Septic Tanks (total design flow)			Disposal Fields	Septic Tanks
From	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft	300 ft	300 ft	100 ft	100 ft	100 ft		
Owner's wells	100 down to 80 ft [a]	200 down to 100 ft	300 down to 150 ft	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 down to 80 ft [f]	200 down to 120 ft [f]	300 down to 180 ft [f]	100 down to 50 ft [f]	100 down to 75 ft [f]	100 down to 75 ft [f]		
Water supply line	10 ft	20 ft	25 ft [h]	10 ft	10 ft	10 ft [h]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 80 ft [d]	200 down to 120 ft [d]	300 down to 180 ft [d]	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft [e]	100 down to 50 ft [e]	150 down to 75 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		
Edge of fill extension - Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]		
Slopes greater than 3:1	10 ft [g]	18 ft [g]	25 ft [g]	N/A	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Full basement (below grade foundation)	20 down to 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft	29'	
Property lines	10 down to 5 ft [c]	18 down to 9 ft [c]	20 down to 10 ft [c]	10 down to 4 ft [c]	15 down to 7 ft [c]	20 down to 10 ft [c]	10'	
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		
<b>OTHER</b>								
1. Fill extension Grade - to 3:1								
2.								
3.								

Footnotes: [a.] Single-family well setbacks may be reduced as prescribed in Section 701.2.

[b.] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the plumbing inspector's presence and shown to be watertight or of monolithic construction.

[c.] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.

[d.] Additional setbacks may be required by local Shoreland zoning.

[e.] Natural Resource Protection Act requires a 25 feet setback, on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.

[f.] May not be any closer to neighbors well than the existing disposal field or septic tank unless written permission is granted by the neighbor. This setback may be reduced for single family houses with Department approval. See Section 702.3.

[g.] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.

[h.] See Section 1402.10 for special procedures when these minimum setbacks cannot be achieved.

SITE EVALUATOR'S SIGNATURE

DATE

## FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (it does / does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

SIGNATURE OF THE DEPARTMENT

DATE

FROM :

FAX NO. :2078395564

Oct. 19 2005 08:29AM P5

## SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Health Engineering, Safety & EMS  
(207) 287-5672 FAX (207) 287-4172

<b>PROPERTY LOCATION</b>		<b>&gt;&gt; Caution: Permit Required - Attach in Space Below &lt;&lt;</b>
City, Town, or Plantation	PORTLAND	
Street or Road	227 CONGRESS STREET	
Subdivision, lot #		The Subsurface Wastewater Disposal System <del>shall not</del> be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.
<b>OWNER/APPLICANT INFORMATION</b>		
Name (last, first, MI)	DAVIS DENTAL	
Mailing Address of	STROUDWATER CONSTRUCTION C/O DAVID CLAWSON 96 OCEAN STREET, UNIT 1 SOUTH PORTLAND, ME 04106	
<input type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant		
Daytime Tel #	767-9110	
<b>Owner or Applicant Statement</b>		<b>Caution: Inspections Required</b>
I state and acknowledge that the information submitted is correct in the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.
Signature of Owner/Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (Date) Date Approved _____

## PERMIT INFORMATION

<b>TYPE OF APPLICATION</b>	<b>THIS APPLICATION REQUIRES</b>	<b>DISPOSAL SYSTEM COMPONENTS</b>
1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System Type Replaced: <u>TRENCH</u> Year Installed: <u>1980 +/-</u> 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> Minor Expansion b. <input type="checkbox"/> Major Expansion 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	1. <input type="checkbox"/> No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. <input type="checkbox"/> Replacement System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 4. <input type="checkbox"/> Minimum Lot Size Variance 5. <input type="checkbox"/> Seasonal Conversion Approval	1. <input checked="" type="checkbox"/> Complete Non-Engineered System 2. <input type="checkbox"/> Primitive System (greywater & oil toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank (only) _____ Gallons 5. <input type="checkbox"/> Holding Tank _____ Gallons 6. <input type="checkbox"/> Non Engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (2000 gpd) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal Field (only) 11. <input type="checkbox"/> Pre-treatment, specify: _____ 12. <input type="checkbox"/> Miscellaneous components
<b>SIZE OF PROPERTY</b>	<b>DISPOSAL SYSTEM TO SERVE</b>	<b>TYPE OF WATER SUPPLY</b>
<u>2.38</u> <input type="checkbox"/> sq. ft. <input type="checkbox"/> acres	1. <input type="checkbox"/> Single Family Dwelling, Unit, No. of Bedrooms: _____ 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input checked="" type="checkbox"/> Other: <u>DENTAL OFFICE</u> SPECIFY _____ Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	1. <input type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input checked="" type="checkbox"/> Public 5. <input type="checkbox"/> Other: _____
<b>SHORELAND ZONING</b>		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

<b>TREATMENT TANKS</b>	<b>DISPOSAL FIELD TYPE &amp; SIZE</b>	<b>GARBAGE DISPOSAL UNIT</b>	<b>DESIGN FLOW</b>
1. <input checked="" type="checkbox"/> Concrete a. <input checked="" type="checkbox"/> Regular b. <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY <u>2500</u> gallons <u>1500 GAL + 1000 GAL</u>	1. <input type="checkbox"/> Stone Bed 2. Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array c. <input type="checkbox"/> Linear b. <input checked="" type="checkbox"/> Regular d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: _____ SIZE <u>4560</u> sq. ft. <input type="checkbox"/> lin. ft. <u>95 ELJEN IN-DRAIN UNITS</u>	1. <input checked="" type="checkbox"/> No 2. <input type="checkbox"/> Maybe 2. <input type="checkbox"/> Yes >> Specify one below: a. <input type="checkbox"/> Multi compartment tank b. <input type="checkbox"/> _____ tanks in series c. <input type="checkbox"/> Increase in tank capacity d. <input type="checkbox"/> Filter on tank outlet	<u>1320</u> gallons per day BASED ON: 1. <input checked="" type="checkbox"/> Table 501.1 (dwelling units) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS - for other facilities - <b>DENTAL OFFICE</b> <u>13 MEDICAL STAFF @ 80 GPD</u> <u>50 PATIENTS @ 5 GPD</u> <u>2 OFFICE STAFF @ 15 GPD</u> <u>1040 + 250 + 30 = 1320 GPD</u> 3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA
<b>SOIL DATA &amp; DESIGN CLASS</b>	<b>DISPOSAL FIELD SIZING</b>	<b>PUMPING</b>	
PROFILE CONDITION DESIGN <u>7</u> / <u>OVER</u> / <u>1</u> AT Observation Hole - <u>TP B</u> Depth <u>30</u> " OF MOST LIMITING SOIL FACTOR	1. <input type="checkbox"/> Small 2.0 sq.ft./gpd 2. <input type="checkbox"/> Medium - 2.6 sq.ft./gpd 3. <input checked="" type="checkbox"/> Medium-Large - 3.3 sq.ft./gpd 4. <input type="checkbox"/> Large - 4.1 sq.ft./gpd 5. <input type="checkbox"/> Extra-Large - 5.0 sq.ft./gpd	1. <input type="checkbox"/> Not required 2. <input checked="" type="checkbox"/> May be required 3. <input type="checkbox"/> Required >> Specify only for engineered or experimental systems: DOSE: _____ Gallons	

## SITE EVALUATOR STATEMENT

I certify that on 10/18/05 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Site Evaluator Signature

K3  
SF10/18/05  
Date

ALBERT FRICK

(207) 839-5563

AFA @ MAINE RR.COM

Site Evaluator Name Printed

Telephone Number

E-mail Address

ALBERT FRICK ASSOCIATES - 65A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-6663  
Note: Changes to or deviations from the design should be confirmed with the Site Evaluator

IHE 200 Rev. B/01

Oct. 19 2005 08:30AM P6

Maine Department of Human Services  
Division of Health Engineering, 100 Main St. 3314  
(207) 287-5872 FAX (207) 287-4172

### SOIL DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole TP A    ☒ Test Pit    ☐ Boring

" Depth of Organic Horizon Above Mineral Soil \_\_\_\_\_

0	Texture	Consistency	Color	Mottling
			<del>DARK YELLOWISH BROWN</del>	
10	<del>LOAMY SAND &amp; SAND</del>	<del>FRIABLE</del>	<del>LIGHT YELLOWISH BROWN</del>	
20				<del>FEW FAINT</del>
30	<del>SILTY CLAY</del>	<del>FIRM</del>	<del>OLIVE</del>	<del>COMMON DISTINCT</del>
40				
50				

Soil Classification

**7 C**

Profile Condition

Slope

Limiting Factor **20**

☒ Ground Water

☐ Restrictive Layer

☐ Bedrock

☐ Pit Depth

### SOIL DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole TP B    ☒ Test Pit    ☐ Boring

" Depth of Organic Horizon Above Mineral Soil \_\_\_\_\_

0	Texture	Consistency	Color	Mottling
	<del>SANDY LOAM TO LOAMY SAND (SCL)</del>		<del>VARIABLE DARK BROWN</del>	
10		<del>FRIABLE</del>	<del>DARK BROWN</del>	
20	<del>LOAMY SAND &amp; SAND</del>		<del>DARK YELLOWISH BROWN</del>	
30			<del>LIGHT YELLOWISH BROWN</del>	<del>FEW FAINT</del>
40	<del>SILTY CLAY</del>	<del>FIRM</del>	<del>OLIVE</del>	<del>COMMON DISTINCT</del>
50				

Soil Classification

**7 FILL OVER C**

Profile Condition

Slope

Limiting Factor **30**

☒ Ground Water

☐ Restrictive Layer

☐ Bedrock

☐ Pit Depth

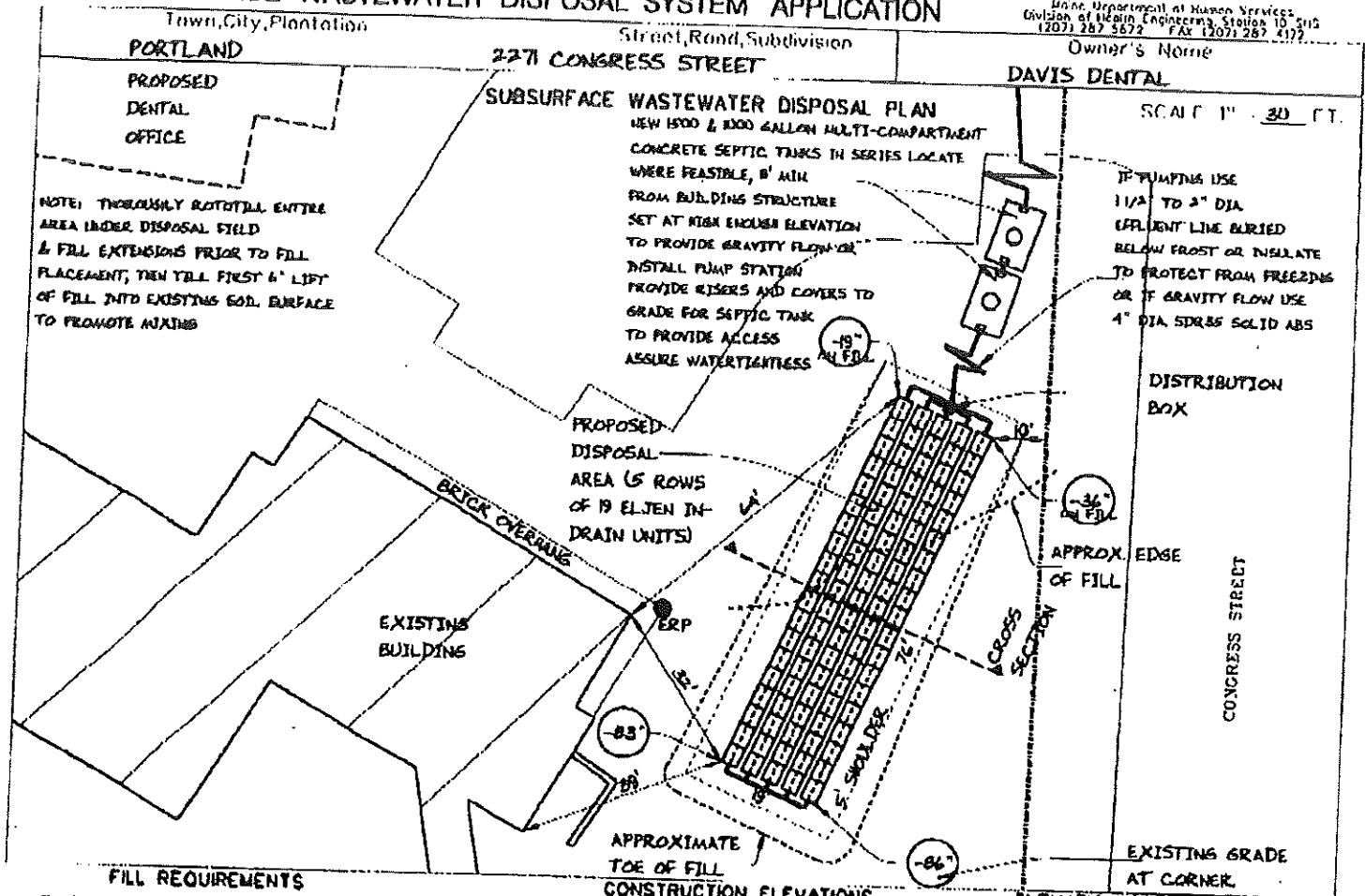
Page 2 of 3  
HHF-200 Rev. 10/02

FROM :

FAX NO. : 2078395564

Oct. 19 2005 08:30AM P7

## SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Solid Engineering, Station 10 5110  
(207) 287 5672 FAX (207) 287 4172

## FILL REQUIREMENTS

Depth of Fill (Upslope) : 0' - 1 1/4"

Depth of Fill (Downslope) : 0' - 1 1/4"

DEPTH AT CROSS SECTION (shown below)

Finished Grade Elevation

Top of ~~Proprietary Device~~

Bottom of Disposal Area

## ELEVATION REFERENCE POINT

Location & Description BOTTOM OF BRICK OVERLAYS ON BUILDING

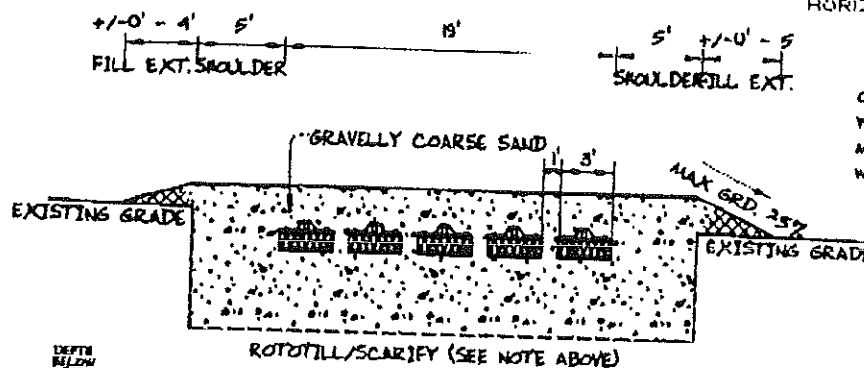
Reference Elevation is 0.0' or

SCALE:

VERTICAL: 1" = 5 FT

HORIZONTAL: 1" = 10 FT

## DISPOSAL AREA CROSS SECTION



CAP TOE OF FILL WITH SANDY LOAM MATERIAL TO PREVENT WASTEWATER BREAKOUT

CLEAN FILL

GEOTEXTILE FABRIC OVER 4" DIA. PERFORATED ELTEN IN-DRAIN UNIT

DEPTH BELOW REF. = 72"

-84"

-88"

-95"

-98"

REMOVE ALL PORTIONS OF UNCONTROLLED FILL MATERIAL ENCOUNTERED TO A MINIMUM DEPTH OF 2' UNDERNEATH AND 5' ALONGSIDE DISPOSAL AREA AND REPLACE WITH CLEAN GRAVELLY COARSE SAND FILL

Site Evaluator Signature

163 SF

Date

Page 3 of 3

HHL-200 Rev. 10/02

ALBERT FRICK ASSOCIATES - 96A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 890-6583

FROM :

FAX NO. :2078395564

Oct. 19 2005 08:31AM PB



**Albert Frick Associates, Inc.**  
Soil Scientists & Site Evaluators  
93A County Road Corham, Maine 04038  
(207) 839-5563 FAX (207) 839-5564

Albert Frick, BS, SE  
James Logan, BS, SE  
Matthew Logan, SE  
Brady Frick, SE  
Dwain Jordan, SE  
William O'Connell, SE

## MAINTAINING YOUR SUBSURFACE WASTEWATER DISPOSAL SYSTEM

### Care and Maintenance of your Septic Tank

The septic tank is an essential part of your subsurface wastewater disposal system. Proper care and maintenance of your septic tank protects the disposal field and will help prolong the life of the disposal system.

- \* A "starter" is not necessary to stimulate bacterial action in a septic tank. The bacteria present in the domestic wastewater is adequate for bacterial action and will thrive under normal use. The U.S. Environmental Protection Agency and the Maine Department of Human Service both discourage the addition of septic tank additives.
- \* Practice water conservation methods whenever possible.
- \* Normal amounts of household detergents, bleaches, and cleaners may be used without stopping the biological activity in the septic tank. Excessive amounts of any cleaners should not be used. Do not discharge solvents, paints, fuels, oils, hazardous or special wastes into the tank. This is prohibited by laws and regulations.
- \* Avoid disposing of grease, fats, coffee grounds, disposable diapers, feminine napkins, or other non-decomposable materials into the septic tank.
- \* Use of a garbage disposal increases the organic loading rate into a septic tank. More frequent pumping and the addition of a septic tank filter is required.
- \* Avoid doing excessive loads of laundry in rapid succession. Space the loads out over time to allow for a "rest" period between loads.

### Pumping your Septic Tank

Your septic tank should be pumped every two to three years, or as needed according to the actual use of the system, to remove accumulated solids for final disposal in an approved facility. The inlet and outlet baffles should be inspected with each pumping and replaced if necessary.

### Care and Maintenance of your Disposal Field

- \* Do not drive over your disposal field with automobiles, trucks, or heavy equipment unless your disposal field is specifically designed for these loads.
- \* Maintain adequate vegetation or mulch over the disposal field unless the field has been designed under pavement.
- \* Avoid siting gardens over disposal fields, because annual rototilling tends to erode the surface cover. Rototiller lines can cut into the disposal pipes and units.
- \* Avoid tying dogs, who are inclined to dig, over disposal fields. Avoid siting horse or cattle corrals over fields due to foot impact and erosion potential.
- \* Vegetation with aggressive shallow root systems should not be grown near systems (willow trees, for example).



FROM :

FAX NO. :2078395564

Oct. 19 2005 08:31AM P9



**Albert Frick Associates, Inc.**  
**Soil Scientists & Site Evaluators**

95A County Road Gorham, Maine 04038  
 (207) 839-5563

PORTLAND

227 CONGRESS STREET

DAVIS DENTAL

TOWN

LOCATION

APPLICANT'S NAME

- 1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer should contact Albert Frick Associates, Inc. 839-5563, if there are any questions concerning materials, procedures or designs. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems.
- 2) This application is intended to represent facts pertinent to the Rules only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and minimum lot size laws) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations. Prior to the commencement of construction/installation, the local plumbing inspector or Code Enforcement Officer shall inform the owner/applicant and Albert Frick Associates, Inc. of any local ordinances which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Albert Frick Associates, Inc.'s liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations in effect at the time of preparation of this application.
- 3) All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based solely upon information provided by the owner/applicant and has been relied upon by Albert Frick Associates, Inc. in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties but not readily visible above grade should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.
- 4) Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter shall be connected in series to the proposed septic tank.
- 5) The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life.
- 6) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than every three years. All septic tank, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration.

FROM :

FAX NO. :2078395564

Oct. 19 2005 08:31AM P10

## ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND	227 CONGRESS STREET	DAVIS DENTAL
TOWN	LOCATION	APPLICANT'S NAME

- 7) The actual water flow or number of bedrooms shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed. If the system is supplied by public water or a private service with a water meter, the water consumption per period should be divided by the number of days to calculate the average daily water consumption (water usage (cu. ft.) x 7.48 cu. ft. (gallons per cu. ft.) divided by the # of days in period).
- 8) The general minimum setbacks between a well and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
- 9) When a gravity system is proposed: **BEFORE CONSTRUCTION/INSTALLATION BEGINS**, the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum slope requirement. In gravity systems, the invert of the septic tank(s) outlet(s) shall be at least 4 inches above the invert of the distribution box outlet at the disposal area. When an effluent pump is required, provisions shall be made to make certain that surface ground water does not enter the septic tank or pump station, by sealing/grouting all seams and connections, and by placement of a riser and lid at or above grade. An alarm device warning of a pump failure shall be installed. Also, when pumping is required of a chamber system, install a "T" connection in the distribution box and place 3 inches of stone or a splash plate in the first chamber. Insulate gravity pipes, pump lines and the distribution box as necessary to prevent freezing.
- 10) On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. On sites where the proposed system is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling to a depth of at least 8 inches over the entire disposal and fill extension area to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or differential settling). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off proprietary devices. Divert the surface water away from the disposal area by ditching or shallow landscape swales.
- 11) Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay).
- 12) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.
- 13) Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover system. Woody trees or shrubs are not permitted on the disposal area or fill extensions.

**Albert Frick Associates, Inc.**

Soil Scientists &amp; Site Evaluators

95A County Road Gorham, Maine 04038

(207) 839-5563



DELUCA-HOFFMAN ASSOCIATES, INC.  
CONSULTING ENGINEERS

778 MAIN STREET  
SUITE 8  
SOUTH PORTLAND, MAINE 04106  
TEL. 207 775 1121  
FAX 207 879 0896

2541.01 / 44

- SITE PLANNING AND DESIGN
- ROADWAY DESIGN
- ENVIRONMENTAL ENGINEERING
- PERMITTING
- AIRPORT ENGINEERING
- CONSTRUCTION ADMINISTRATION
- TRAFFIC STUDIES AND MANAGEMENT

November 2, 2005

Ms. Jean Frazier  
Planner, City of Portland  
389 Congress Street  
Portland, Maine 04101

**Subject: Minor Site Plan Review: 2271 Congress Street – Davis Dental Practice  
Response to Comments**

Dear Jean:

DeLuca-Hoffman Associates, Inc. has reviewed your October 21, 2005 comment letter and we offer the following responses in order of presentation.

1. Owen Haskell, Inc completed a boundary survey for the project site. A copy of their survey accompanies this letter. It appears that the southeast property corner does extend onto a wide paved corner of Blueberry Road. It is likely the pavement radius for Blueberry Road is wider than normal simply to accommodate truck movements from RWS turning westbound on Congress Street. DeLuca-Hoffman Associates, Inc. had previously completed an on-the-ground topographic and location survey in 2004. Subsequently the owner completed some very minor onsite modifications including the removal of some pavement area towards the westerly side of Building A, as well as some entranceway improvements on the east side of Building A.
2. The applicant is aware that a Certificate of Occupancy is required for the change of use in the building. The term "spa" referred to on the drawings is not associated with traditional spa activities, but rather dental services that will be provided in a manner that provides patient sensitivity and relaxation measures to mitigate the stress often associated with dental visits. The accompanying dental equipment layout plan clearly shows the internal building layout as containing primarily dental-related equipment and service spaces.
3. The applicant is requesting a waiver to allow 9' x 18' parking spaces since the project does not involve retail activities and shopping carts. The requested space size is considered adequate for the uses proposed at this site and we are aware that the City has granted similar waivers in the past.
4. The applicant is requesting a waiver of the sidewalk and curbing requirement along Blueberry Road under the provisions of Sec.14-506 (b) (1) and (2). A waiver is also requested for the placement of sidewalk and curb along Congress Street under the same provisions. The nearest sidewalk lies to the east and consists of sidewalks on the Turnpike bridge overpass. These sidewalks, however, do not connect to sidewalks on either side. The

Ms. Jean Frazier  
November 2, 2005  
Page 2

next closest sidewalk is located further east between 750 to 1,000 feet, along the UNUM frontage. Currently there is no sidewalk on Congress Street west of the Turnpike overpass.

5. Although no traffic counts have been performed on Blueberry Road, it is apparent that the current traffic volumes are modest and appear well below the thresholds warranting a traffic signal. Blueberry Road is a dead-end street that will not likely have any uses generating high traffic volumes. We note that the site's existing Congress Street driveway is the only access into a parking area serving tenants in Building A. Based on the layout of buildings and site conditions it appears impractical to connect the front parking area with the rear parking and the Blueberry Road driveway; therefore, the applicant, while noting this concern, would argue against closure of the Congress Street driveway.
6. a. We concur that the existing parking count is approximately 50 spaces; however, the alignment of a portion of these spaces is not ideal and results in a restricted circulation pattern as currently striped.
- b. The proposal includes additional spaces due to the expected periodic demand from each of the tenants on the site. The applicant plans to realign the parking both at the Congress Street and Blueberry Road parking lots. The Congress Street lot currently contains nine spaces and has an inefficient circulation pattern. Currently this lot is shared by a tenant within Building A and Maine Printing, which also occupies Building A. The proposal is to realign the parking and eliminate a landscaped island in the middle of the existing pavement, whereby the total parking can be increased to 22 spaces. The plans have also been revised to include two handicap spaces within the Congress Street lot since this lot primarily serves Building A. The latest revised plans accompany this letter submission. The applicant is also modifying the Blueberry Road parking area to allow for improved circulation and to accommodate the building-related activities. Several parallel parking spaces will be eliminated and a circular drive aisle will be introduced. Within the existing paved area, the parking count will decrease from approximately 42 spaces to 23 spaces. The rear parking area serves both Maine Printing in Building A and the proposed dental practice in Building B. Maine Printing routinely (several times per week) has client presentations/training which more than 30 persons attend, thus requiring parking capacity. For this reason, and to also serve the Dental Practice demand that includes turnover conditions where patients coming and going may overlap for a short period of time, an additional 21 spaces have been provided for at the rear of the site. Thus, the total increase of parking at the rear is actually quite modest at two spaces, while an additional 13 spaces have been provided off Congress Street. The total increase in parking is approximately 15 spaces, which, with the additional Dental Practice use on the site, is reasonable in our opinion.
- c. We agree that the parking at the northeast corner of the site along Blueberry Road will result in the loss of existing trees and a buffer to the north. However, we have attempted to mitigate this loss by planting multiple evergreens and some deciduous trees around the 14-space parking area. A reasonable buffer will remain along the northerly and

Ms. Jean Frazier  
November 2, 2005  
Page 3

northwesterly property boundaries as these areas will remain unchanged. An additional 7 spaces are proposed off the westerly edge of the parking area behind Building A. These spaces will require only a modest fill extension and little to no significant tree removal. All slopes off these proposed parking areas are to be graded at 3:1 to allow for reasonable mowing access and maintenance. The existing slopes that will be constructed are not considered steep and no natural resources of concern are located immediately down-gradient of these activities. We note that the two barrier free spaces originally located on the north side of Building A have been relocated to the Congress Street parking area.

7. DeLuca-Hoffman Associates, Inc. will coordinate with the Public Works Department regarding the onsite wastewater disposal system. We are not certain that a capacity letter from the Department is warranted since the project will not be discharging to the City's municipal sewer system.  
*I have informed them they need to speak to you.*
8. No further response is required until comments are received from the review engineer.
9. The accompanying building elevations depict the use of 6" clapboard siding for the proposed building additions. The portions of the existing building facades to remain will continue to have brick. A new standing seam metal roof is also proposed for the entire building. The building elevations also provide building heights that vary from a little under 20' above finish floor elevation (peak to floor) along the east elevation to slightly below 26' (peak to floor) on the south elevation. The building setback along Blueberry Road is approximately 23.5'. The dental office's main entrance is located off the north elevation.
10. The dumpsters were placed on an existing hard surface. Since the Fire Department does not routinely require three or four-sided building access, it was assumed that the dumpster locations would be acceptable. Fire access remains available from the north, east and south sides of the building. If required, an alternative location for the dumpsters can be provided.
11. The accompanying catalog cuts of the proposed lighting are provided for staff review.
12. The accompanying Site Layout and Landscape Plan includes a few modifications and hopefully clarifications to the landscaping. We concur that the project will involve some removal of existing trees and vegetation; however, these limits are well within the allowable setbacks required by the code. A landscaping plan has been provided to include new trees that are to help offset the loss of existing trees, particularly in the north corner. We note that the building to the north sets somewhat lower than the Maine Printing site, due to existing topography and a substantial wooded buffer will continue to remain along most of the northerly property boundary. We also note that the subject site, located within an industrial zone, and the character of this site, including the buildings and landscaping, is reasonable and in keeping with the surrounding uses. As previously discussed, the seven new spaces behind Building A will result in a minor impact to

DeLUCA HOFFMAN ASSOCIATES, INC.  
CONSULTING ENGINEERS

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Ms. Jean Frazier  
November 2, 2005  
Page 4

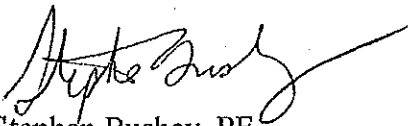
existing vegetation; however, there will be no substantial loss of mature trees or buffering, hence the spaces were located there for this reason. We have adjusted the plant list and provided additional information regarding the trees on the accompanying site plan.

We trust this information helps with your review of the project and we look forward to the Planning Authority's approval.

If you have any further questions please call.

Sincerely,

DeLUCA-HOFFMAN ASSOCIATES, INC.



Stephen Bushey, PE  
Senior Engineer

SRB/sq/JN2541.01/Frazier-11-02-05

Enclosures: Boundary Survey by Owen Haskell  
Dental Equipment Layout Plan  
Latest Revised Plans  
Building Elevations  
Catalog Cuts – Proposed Lighting

c: Harry Hepburn, Scott Simons Architects  
David Cimino, Stroudwater Construction

Submitted by Swaney Lighting Associates Inc



**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
CR1-A-P12-H4-F-Q-COLOR-HS

Notes:

Type:

SLA05-2904

## CIMARRON SERIES

Cat. #	Approvals
Job	Type

**SPAULDING  
LIGHTING**

### APPLICATIONS

- Area and wall lighting.

### SPECIFICATIONS

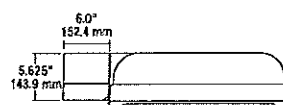
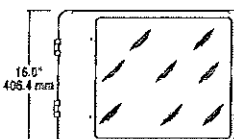
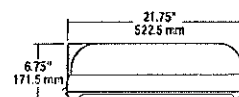
- IES Type II, III, IV, V (square) light distributions
- Flat lens design for full cutoff control
- 175w to 400w lamps in HPS, MH, Super MH, and Pulse Start for design flexibility
- Mounts on upswept, straight arms for poles or on wall bracket for a uniform project look
- 5 standard, 2 premium, and custom colors are available

### LISTINGS

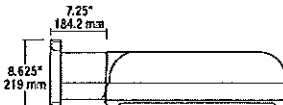
- UL and CSA certified for outdoor use in wet locations.



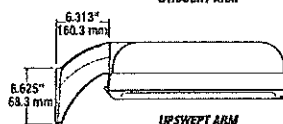
For more detail, see back.

EPA = 1.2 ft<sup>2</sup> (single unit with arm)

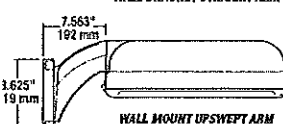
STRAIGHT ARM



WALL BRACKET STRAIGHT ARM



UPSWEPT ARM



WALL MOUNT UPSWEPT ARM

## ORDERING INFORMATION

### ORDERING EXAMPLE

**CR1** - **A** - **H17** - **H2** - **F** - **Q** - **DB** - **PR1**  
 Series Mounting Wattage/Source Lamp Orientation/Distribution Lens Voltage Color Options

### SERIES

CR1 Cimarron

### MOUNTING

**A** Arm Mount Construction (6" straight rigid arm included & acceptable for 90° configurations)

**AD** Decorative Arm Mount Const. (6" decorative upswept arm incl. & acceptable for 90° configurations)

**WB** Wall Bracket Const. (includes Wall Bracket & 6" straight arm unless WBAD option is chosen which substitutes Decorative Upswept Arm)

**0** No Arm or Wall Bracket (only order without arm or wall bracket when they are ordered as accessory)

### WATTAGE/SOURCE

#### METAL HALIDE

H17 175W (ED-28)

H25 250W (ED-28)

H40 400W (ED-28)

#### SUPER METAL HALIDE

MS17 175W (ED-28)

MS25 250W (ED-28)

MS40 400W (ED-28)

#### PULSE START METAL HALIDE

P10 100W (ED-17)

P12 125W (ED-17)

P18 150W (ED-28)

P20 200W (ED-28)

P25 250W (ED-28)

P32 320W (ED-28)

P35 350W (ED-28)

P40 400W (ED-28)

1 When ordering poles, specify Pole Drill Pattern #2 for A and AD mounting.

### WATTAGE/SOURCE con't

#### HIGH PRESSURE SODIUM

S10 100W (ED-23 1/2)

S19 150W (ED-23 1/2)

S25 250W (ED-18)

S40 400W (ED-18)

### LAMP ORIENTATION/DISTRIBUTION

H2 Horizontal II

H3 Horizontal III

H4 Horizontal IV

H5 Horizontal V (square)

### LENS

F Flat

### VOLTAGE

Q Quad-Tap\* (120, 208, 240, 277V)

V Five-Tap (120, 208, 240, 277, 480V) (250 &amp; 400 MH, 250 &amp; 400 HPS only)

S 480V

T 120, 277, 347V

O No Ballast

E 50 Hz 220/240V (250 &amp; 400 MH, 250 &amp; 400 HPS only)

### COLOR

DB Dark Bronze

BL Black

WH White

GR Gray

PS Platinum Silver

RD Red (premium color)

FG Forest Green (premium color)

CC Custom Color (premium color)

### OPTIONS

**WBAD** Substitutes Decorative Upswept Arm when WB wall bracket mounting is chosen

**RPA2** Round Pole Adapter (2 3/4" - 3 1/2")

**RPA3** Round Pole Adapter (3 1/4" - 3 3/4")

**RPA4** Round Pole Adapter (3 3/4" - 4 1/2")

**RPA5** Round Pole Adapter (5")

**RPA6** Round Pole Adapter (6")

**F1** Fusing - 120V

**F2** Fusing - 208V

**F3** Fusing - 240V

**F4** Fusing - 277V

**F5** Fusing - 480V

**F6** Fusing - 247V

**P1** Photo Button - 120V

**P2** Photo Button - 208V

**P3** Photo Button - 240V

**P4** Photo Button - 277V

**P6** Photo Button - 347V

**PR1** Photo Cell Receptacle - 120V

**PR2** Photo Cell Receptacle - 208V

**PR3** Photo Cell Receptacle - 240V

**PR4** Photo Cell Receptacle - 277V

**PR5** Photo Cell Receptacle - 480V

**PR6** Photo Cell Receptacle - 347V

**QZ** Quartz RS with lamp

**HS** Internal House Side Shield (available for H2, H3 & H4 distributions)

**V6** Polycarbonate Vandal Guard

**L** Lamp

**SELECT UNITS ARE STOCKED FOR IMMEDIATE SHIPMENT.**

Submitted by Swaney Lighting Associates Inc



**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
CR1-A-P12-H4-F-Q-COLOR-HS

Notes:

Type:

SLA05-2904

## ACCESSORIES

### CIMARRON ACCESSORIES

CATALOG #	DESCRIPTION
ARM-CR-6-S-XX <sup>1</sup>	6" Rigid Straight Arm
ARM-CRD-6-S-XX <sup>1,2</sup>	6 1/2" Rigid Upswept Arm
ARM-CR-K-TA-XX <sup>1</sup>	Tenon Arm (single) adjustable
ARM-CR-TK-TA-XX <sup>1</sup>	Tenon Arm (double 180°) adjustable
ARM-CR-K-S-XX <sup>1,2</sup>	Adjustable Arm (for flat surfaces)
CR1-PVG	Polycarbonate Vandal Guard
CR1-HS-23	Internal House Side Shield (H2 & H3 distributions)
CR1-HS-4	Internal House Side Shield (H4 distribution)
CR-RPA2-XX <sup>1</sup>	Round Pole Adapter for Straight Arm (2 3/4" - 3 1/4")
CR-RPA3-XX <sup>1</sup>	Round Pole Adapter for Straight Arm (3 1/4" - 3 3/4")
CR-RPA4-XX <sup>1</sup>	Round Pole Adapter for Straight Arm (3 3/4" - 4 1/2")
CR-RPA5-XX <sup>1</sup>	Round Pole Adapter for Straight Arm (5")
CR-RPA5-XX <sup>1</sup>	Round Pole Adapter for Straight Arm (6")
CRD-RPA2-XX <sup>1</sup>	Round Pole Adapter for Upswept Arm (2 3/4" - 3 1/4")
CRD-RPA3-XX <sup>1</sup>	Round Pole Adapter for Upswept Arm (3 1/4" - 3 3/4")
CRD-RPA4-XX <sup>1</sup>	Round Pole Adapter for Upswept Arm (3 3/4" - 4 1/2")
CRD-RPA5-XX <sup>1</sup>	Round Pole Adapter for Upswept Arm (5")
CRD-RPA6-XX <sup>1</sup>	Round Pole Adapter for Upswept Arm (6")
WB-CR-XX <sup>1</sup>	Wall Bracket

1 Replace XX with color choice, eg: DB for Dark Bronze

2 When ordering poles, specify Pole Drill Pattern #2

### CIMARRON TENON TOP POLE BRACKET ACCESSORIES

(RSS version requires round pole adapter)

CATALOG #	DESCRIPTION
SSS-490-XX <sup>1</sup>	Square Pole Tenon Adapter (4 at 90 degrees)
RSS-490-XX <sup>1</sup>	Round Pole Tenon Adapter (4 at 90 degrees)
RSS-3120-XX <sup>1</sup>	Round Pole Tenon Adapter (3 at 120 degrees)

1 Replace XX with color choice, eg: DB for Dark Bronze

### ADDITIONAL ACCESSORIES

CATALOG #	DESCRIPTION
PTL-1	Photocontrol - Twist-Lock Cell (120V)
PTL-8	Photocontrol - Twist-Lock Cell (120-277V)
PTL-5	Photocontrol - Twist-Lock Cell (480V)
PTL-6	Photocontrol - Twist-Lock Cell (347V)
PSC	Shorting Cap - Twist-Lock

**HOUSING** Architecturally styled, one piece die-cast aluminum housing with nominal .125" wall thickness. Low profile design reduces the overall wind loading while providing a sleek, unabrasive look which complements most building architectural styles.

**DOOR** Die-cast aluminum door hinges to housing and secures with two captive screws providing four points on contact ensuring a clean lens and optical assembly. Both the flat tempered glass and door are sealed with one-piece extruded silicone gaskets.

**OPTICS** Specular, anodized aluminum reflectors provide IES type II, III, IV, and V distributions with a horizontal lamp orientation. The type II, III, and V reflectors are one-piece hydroformed while the type IV is a multi-piece design. All meet IESNA Full Cutoff classification and are field rotate in 90 degree increments. House side shields available as either factory installed options or field installed accessories.

**MOUNTING** Two arm designs are available providing maximum design flexibility. The die-cast aluminum arm offers a sleek upswept look while the extruded straight arm includes the housings contoured lines for continuity of style. A wall bracket and pole/tenon accessories are also available allowing easy mounting for virtually any application.

**ELECTRICAL** Energy efficient HID lamps up to 400 watts. Pulse rated porcelain sockets have spring loaded, nickel plated center contact. All units offer factory or field-installable photocell options and fusing.

**BALLAST** HPF ballast circuit, starting rated at -20 deg F (-40 deg F for HPS). Ballast and other electrical components mounted directly to housing for excellent heat dissipation and long life.

**FINISH** Durable Lektrocote® TGIC thermoset polyester powder paint finish assures long life and maintenance free service. Standard finishes include Dark Bronze, Black, White, Gray, and Platinum Silver. Also available are Red, Forest Green, and custom colors.

**LISTING** UL 1598 approved and CSA Certified for wet location applications.

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

**SPAULDING**  
**LIGHTING**

Spaulding Lighting • 101 Corporate Drive, Suite L • Spartanburg, SC 29303 • PHONE: 864-599-6000

For more information visit our web site: [www.spauldinglighting.com](http://www.spauldinglighting.com)





**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
SSS-20-40-1-A1-COLOR

**Notes:**

**Type:**

SLA05-2904

# Poles

Hubbell Lighting and Spaulding Lighting's complete line of poles offer simple solutions for all your lighting needs from 6-60 feet in height. Pole applications include general floodlighting, sports lighting, auto dealerships, commercial site lighting, and roadways. Mounting configurations include tenon top, side mount, pad mount, or open top models to match any luminaire style.

Constructed with exacting standards, both our aluminum and steel poles meet strict guidelines for quality, strength, and finish. Protecting your investment is our Lektrocote paint or galvanized finish. Both guarantee your investment for years. From shaft cutting through painting, quality control inspections are conducted throughout a highly automated process.

Lastly, to ensure the finish is not damaged during shipment, all poles are protected with either cardboard or double-wrapped in foam and plastic.

## Pole Logic

1	2	3	4	5	6	7	8
S	S	S	10	40	1	A1	DB
Cross Section	Style	Material	Nominal Length	Nominal Shaft Dia.	Shaft Thickness	Mount Type	Finish

⊗ This pole logic is for reference use only. The appropriate pole table should be used when sizing and ordering poles.

### 1 Cross Section

S	Square
R	Round

### 2 Style

S	Straight
T	Tapered
H	Hinged (Square Steel Only)

### 3 Material

S	Steel
A	Aluminum

### 4 Nominal Length

06	6 Feet
08	8 Feet
10	10 Feet
12	12 Feet
14	14 Feet
15	15 Feet
16	16 Feet
18	18 Feet
20	20 Feet
25	25 Feet
27	27 Feet
30	30 Feet
35	35 Feet
39	39 Feet <sup>1</sup>
40	40 Feet
45	45 Feet
50	50 Feet
60	60 Feet

### 5 Nominal Shaft Diameter

30	3 Inch <sup>2</sup>
40	4 Inch <sup>2</sup>
45	4.5 Inch <sup>2</sup>
50	5 Inch
55	5.5 Inch <sup>2</sup>
60	6 Inch
65	6.5 Inch <sup>2</sup>
70	7 Inch <sup>2</sup>
80	8 Inch <sup>2</sup>
85	8.5 Inch <sup>2</sup>
90	9 Inch <sup>2</sup>
95	9.5 Inch <sup>2</sup>
10	10 Inch <sup>2</sup>
11	11 Inch <sup>2</sup>
12	12 Inch <sup>2</sup>

### 6 Shaft Thickness

1	Steel - Standard (.119)
7	Steel - Heavy (.179)
3	Steel - Extra Heavy (.226 - .250)
A	Aluminum - Standard (.125)
B	Aluminum - Heavy (.188)
C	Aluminum - Extra Heavy (.220 - .250)

### 7 Luminaire Mounting Type

AX	Side - Single <sup>4</sup>
BX	Side - Double at 90° <sup>4</sup>
CX	Side - Double at 180° <sup>4</sup>
DX	Side - Triple at 90° <sup>4</sup>
EX	Side - Triple at 120° <sup>4</sup>
FX	Side - Quad at 90° <sup>4</sup>
P1	Pad Mount - Spider Type
P2	Pad Mount - Yoke Type
P3	Pad Mount - Yoke Type (Proformer XL only)
TR	Removable Tenon (2.375 x 4.25) <sup>9</sup>
TA	Tenon (2.375" OD)
TB	Tenon (2.875" OD)
OT	Open Top (for post top luminaires)
CD	Concord Top (use with Concord luminaires only)

### 8 Finish

DB	Dark Bronze
BL	Black
WH	White
GR	Gray
PS	Platinum Silver
RD	Red (Premium Color)
FG	Forest Green (Premium Color)
CC	Custom Color (Consult Factory)
PR	Primer Only
GL	Hot Dip Galvanized
NA	Natural Aluminum (aluminum poles only)

PLEASE SPECIFY COLOR

### Options

Q55	Internal Coating (Hubbell Seal)
Q18	15 Amp GFCI Receptacle and Cover <sup>8</sup>
Q22	Extra Handhole <sup>8</sup>
Q26	5" Coupling <sup>8</sup>
Q27	75" Coupling <sup>8</sup>
Q30	2" Coupling <sup>8</sup>
Q32	Mid-pole Luminaire Bracket <sup>8</sup>
Q40	Vibration Damper
Q45	Square Base Cover <sup>7</sup>
Q46	Round Base Cover <sup>7</sup>
LAB	Less Anchor Bolts
CSA	CSA Certified (Consult Factory) <sup>8</sup>

### 1 Round Tapered Steel Poles Only

### 2 Round Straight Poles Only

### 3 Tapered Poles Only

4 DRILL PATTERNS: Replace X with the following: 1 = Spaulding luminaires with a straight pole (4-bolt), 2 = Spaulding luminaires for tapered pole (2-bolt) plus new Cimarron CR1 and Raven Series.

4 = Hubbell DS and MSS luminaires, 5 = Detroit II 4-bolt design (square poles only), 6 = Hubbell MSV, RCS, RCL & DM luminaires (including tapered poles), 9 = Davine luminaires.

5 Specify option location using logic found in pole introduction pages.

6 Optional base cover only needed when not provided as standard.

7 Optional round base cover.

8 SSS Poles Only

9 Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by "TR" notation.

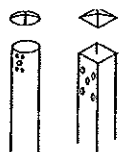
Example: SSS-25-40-7-CB-TR-DB



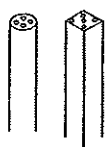
# Poles

## Luminaire Mounting

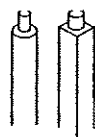
Side Mount



Pad Mount



Tenon Top



Open Top

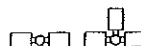


## Side Mounting Locations

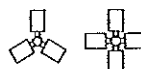
A B



C D

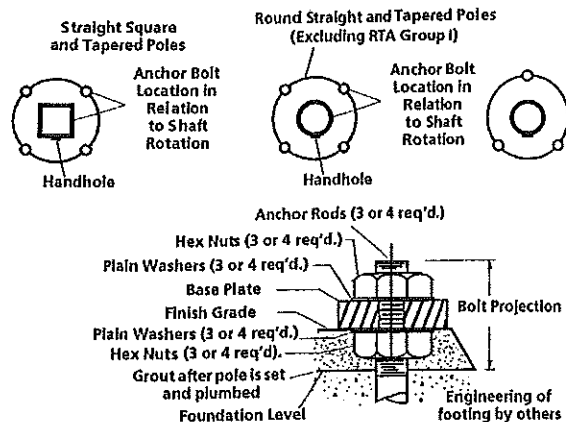


E F



○ Denotes handhole location

## Anchor Bolt Detail Base Diagram

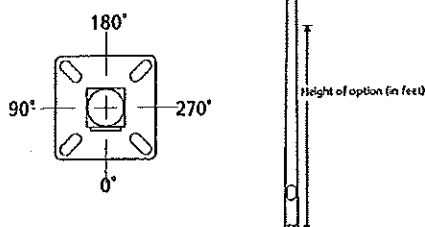


## Option Orientation

Follow the logic below when ordering location specific options.

For each option, include its orientation (in degrees) and its height (in feet). Example: Option Q26 should be ordered as:

SSS-20-40-1-A1-DB-Q26-0-15  
(.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base)



## Standard Anchor Bolts and Template

(Included with pole purchase)

TAB-15	.5 x 15 x 3" (Non-Galvanized)
TAB-30-M38	.75 x 30 x 3" (Galvanized)
TAB-36-M38	1 x 36 x 4" (Galvanized)
TAB-42-M38	1.25 x 42 x 6" (Galvanized)

Note: Fabricated from high tensile steel, each anchor bolt has two nuts and two washers. Galvanized anchor bolts are hot dipped. (Galvanizing includes threaded portion plus six inches.)

## Pole Base Covers

Catalog Number	Description
<b>Pole Base Covers for Square Poles</b>	
SBC-4-XX	10.5" Sq x 5" Deep (use on 4" Sq Poles)
SBC-4L-XX	12.25" Sq x 5" Deep (use on 4" Sq Poles)
SBC-5-XX	12.25" Sq x 5" Deep (use on 5" Sq Poles)
SBC-6-XX	12.25" Sq x 5" Deep (use on 6" Sq Poles)
<b>Pole Base Covers for Round Poles</b>	
SBC-3R-XX	9" Sq x 5" Deep (use on 3" Round Poles)
SBC-4R-XX	10.5" Sq x 5" Deep (use on 4" Round Poles)
SBC-45R-XX	10.5" Sq x 5" Deep (use on 4.5" Round Poles)
SBC-5R-XX	10.5" Sq x 5" Deep (use on 5" Round Poles)
SBC-6R-XX	10.5" Sq x 5" Deep (use on 6" Round Poles)
RBC-4R-XX	10.91" Dia. x 5" Deep (use on 4" Round Poles)
RBC-4RL-XX	14.35" Dia. x 5" Deep (use on 4" Round Poles)
RBC-45R-XX	10.91" Dia. x 5" Deep (use on 4.5" Round Poles)
RBC-45RL-XX	14.35" Dia. x 5" Deep (use on 4.5" Round Poles)
RBC-5R-XX	11.91" Dia. x 5" Deep (use on 5" Round Poles)
RBC-5RL-XX	14.35" Dia. x 5" Deep (use on 5" Round Poles)
RBC-6R-XX	11.91" Dia. x 5" Deep (use on 6" Round Poles)
RBC-6RL-XX	14.35" Dia. x 5" Deep (use on 6" Round Poles)



**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
SSS-20-40-1-A1-COLOR

**Notes:**

**Type:**

SLA05-2904

# Poles-SSS Square Straight Steel

- Square Straight Steel Shaft
- One-piece construction
- Side, Tenon, or Pad mounting available
- Ground lug standard
- Galvanized anchor bolts and template included (4-bolt design)
- Base cover standard (Square)
- Gasketed hand hole cover standard
- Lektrocote finish standard
- CSA certification available


Catalog Number	Pole Ht.		Nominal Shaft Dim.	Wind Load Rating <sup>1</sup>					Bolt		Bolt Circle	Bolt Sq.	Base Plate (sq)	Anchor Bolt Size	Bolt Proj.	Pole Wt (lbs)
	ft	m		70 MPH	80 MPH	90 MPH	100 MPH	120 MPH	Wall Thick.	Circle (sq)						
SSS-10-40-1-XX-XX	10	3.0	4	38	28.5	22	17	11	.119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	.75 x 30 x 3"	4"	91
SSS-10-50-1-XX-XX	10	3.0	5	60	46	36	28	19	.119	11"	10-13.5"	7.1-9.5"	12 x 1"	.75 x 30 x 3"	4"	106
SSS-12-40-1-XX-XX	12	3.7	4	28	21	15	12	7.5	.119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	.75 x 30 x 3"	4"	104
SSS-12-50-1-XX-XX	12	3.7	5	45	33	25	20	13	.119	11"	10-13.5"	7.1-9.5"	12 x 1"	.75 x 30 x 3"	4"	122
SSS-14-40-1-XX-XX	14	4.3	4	23	17	12.5	9.5	6	.119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	.75 x 30 x 3"	4"	116
SSS-14-50-1-XX-XX	14	4.3	5	34.5	25.5	20	15	9.5	.119	11"	8.5-12"	6-8.4"	11 x 1"	.75 x 30 x 3"	4"	158
SSS-14-60-1-XX-XX	14	4.3	6	38	28.5	21.5	16.5	10.5	.119	11"	10-13.5"	7.1-9.5"	12 x 1"	.75 x 30 x 3"	4"	138
SSS-16-40-1-XX-XX	16	4.9	4	19.5	14	10.5	7.5	4	.119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	.75 x 30 x 3"	4"	128
SSS-16-50-1-XX-XX	16	4.9	5	29.5	21.5	16	12	8	.119	11"	8.5-12"	6-8.4"	11 x 1"	.75 x 30 x 3"	4"	176
SSS-16-60-1-XX-XX	16	4.9	6	32	23.5	17.5	13.5	8	.119	11"	10-13.5"	7.1-9.5"	12 x 1"	.75 x 30 x 3"	4"	153
SSS-16-70-1-XX-XX	16	4.9	7	47.5	35.5	27	21.5	13.5	.179	11"	10-13.5"	7.1-9.5"	12 x 1"	.75 x 30 x 3"	4"	214
SSS-18-40-1-XX-XX	18	5.5	4	16.5	11.5	8.5	6	3	.119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	.75 x 30 x 3"	4"	147
SSS-18-50-1-XX-XX	18	5.5	5	25.5	18	13.5	10.5	6	.179	11"	8.5-12"	6-8.4"	11 x 1"	.75 x 30 x 3"	4"	201
SSS-18-60-1-XX-XX	18	5.5	6	27.5	20	14	11	6	.119	11"	10-13.5"	7.1-9.5"	12 x 1"	.75 x 30 x 3"	4"	175
SSS-18-70-1-XX-XX	18	5.5	7	42	31	23.5	18	11	.179	11"	8.5-12"	6-8.4"	11 x 1"	.75 x 30 x 3"	4"	243
SSS-20-40-1-XX-XX	20	6.1	4	13.5	9.5	6.5	4.5	1.8	.119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	.75 x 30 x 3"	4"	160
SSS-20-50-1-XX-XX	20	6.1	5	22	16	11.5	8.5	4.5	.179	11"	8.5-12"	6-8.4"	11 x 1"	.75 x 30 x 3"	4"	173
SSS-20-60-1-XX-XX	20	6.1	6	23.5	17	12	9	4.5	.119	11"	10-13.5"	7.1-9.5"	12 x 1"	.75 x 30 x 3"	4"	191
SSS-20-70-1-XX-XX	20	6.1	7	38.5	27	20	15.5	9	.179	11"	10-13.5"	7.1-9.5"	12 x 1"	.75 x 30 x 3"	4"	266
SSS-20-80-1-XX-XX	20	6.1	8	51	38	28.5	22	14.5	.179	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	312
SSS-25-40-1-XX-XX	25	7.6	4	6.5	5	3	1.5	NR	.119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	1 x 36 x 4"	4"	238
SSS-25-50-1-XX-XX	25	7.6	5	14.5	10	6.5	4.5	1.4	.179	11"	8.5-12"	6-8.4"	11 x 1"	1 x 36 x 4"	4"	266
SSS-25-60-1-XX-XX	25	7.6	6	15	10.5	6.5	4	NR	.119	11"	10-13.5"	7.1-9.5"	12 x 1"	1 x 36 x 4"	4"	231
SSS-25-70-1-XX-XX	25	7.6	7	25	19	12.5	8.5	4	.179	11"	10-13.5"	7.1-9.5"	12 x 1"	1 x 36 x 4"	4"	324
SSS-25-80-1-XX-XX	25	7.6	8	38.5	26	19	14	8	.250	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	407
SSS-25-90-1-XX-XX	25	7.6	9	38.5	28	20.5	15	8	.179	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	404
SSS-27-40-1-XX-XX	27	8.2	4	9.4	6.5	4.2	1.2	NR	.179	11"	8.5 x 12"	6-8.4"	11 x 1"	1 x 36 x 4"	4"	290
SSS-30-40-1-XX-XX	30	9.1	4	6.5	4.5	2.5	1.5	NR	.179	11"	8.5 x 12"	6-8.4"	11 x 1"	1 x 36 x 4"	4"	313
SSS-30-50-1-XX-XX	30	9.1	5	7.5	5.5	2.5	NR	NR	.119	11"	10-13.5"	7.1-9.5"	12 x 1"	1 x 36 x 4"	4"	274
SSS-30-60-1-XX-XX	30	9.1	6	18	12	8	4.5	NR	.179	11"	10-13.5"	7.1-9.5"	12 x 1"	1 x 36 x 4"	4"	398
SSS-30-70-1-XX-XX	30	9.1	7	22	16	11.5	8	3.8	.250	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	537
SSS-30-80-1-XX-XX	30	9.1	8	30	20	14	9	3.4	.179	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	467
SSS-30-90-1-XX-XX	30	9.1	9	42	30	22	16	8	.250	12"	11-13.5"	7.8-9.5"	12 x 1"	1.25 x 42 x 6"	4"	630
SSS-35-60-1-XX-XX	35	10.7	6	20.5	13	8	4.5	NR	.179	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	538
SSS-35-60-3-XX-XX	35	10.7	6	26	18	12	7.5	3.4	.250	12"	11-13.5"	7.8-9.5"	12 x 1"	1.25 x 42 x 6"	4"	726
SSS-40-60-1-XX-XX	40	12.2	8	11	8	3.5	NR	NR	.179	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	614
SSS-40-60-3-XX-XX	40	12.2	8	14	10.5	5.5	2.5	NR	.250	12"	11-13.5"	7.8-9.5"	12 x 1"	1.25 x 42 x 6"	4"	802

<sup>1</sup> Allowable EPA with 1.3 gust factor. To determine max. pole loading weight, multiply allowable EPA by 30 lbs.  
**Note** Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

## Pole Logic

1 S Cross Section	2 S Style	3 S Material	4 25 Nominal Length	5 40 Nominal Shaft Dia.	6 1 Shaft Thickness	7 A1 Mount Type	8 DB Finish
<b>Luminaire Mounting Type</b>							
AX	Side - Single <sup>1</sup>	DB	Dark Bronze			Q85	Internal Coating (Hubbell Seal)
BX	Side - Double at 90° <sup>1</sup>	BL	Black			Q18	15 Amp GFCI Receptacle and Cover <sup>1</sup>
CX	Side - Double at 180° <sup>1</sup>	WH	White			Q22	Extra Handhole <sup>2</sup>
DX	Side - Triple at 90° <sup>1</sup>	GR	Gray			Q26	.5" Coupling <sup>3</sup>
FX	Side - Quad at 90° <sup>1</sup>	PS	Platinum Silver			Q27	.75" Coupling <sup>3</sup>
P1	Pad Mount - Spider Type	RD	Red (Premium Color)			Q30	2" Coupling <sup>3</sup>
P2	Pad Mount - Yoke Type	FG	Forest Green (Premium Color)			Q32	Mid-pole Luminaire Bracket <sup>2</sup>
P3	Pad Mount - Yoke Type (Former XL only)	CC	Custom Color (Consult Factory)			Q40	Vibration Damper
TA	Tenon (2.375" OD)	PR	Primer Only			LAB	Less Anchor Bolts
TB	Tenon (2.875" OD)					CSA	CSA Certified (consult factory)
TR	Removable Tenon (2.375 x 4.25) <sup>2</sup>						
CD	Concord Luminaire						
OT	No drilling (includes pole cap)						

- <sup>1</sup> DRILL PATTERNS: Replace X with 1 = Spaulding luminaires with a straight pole (4-bolt), 2 = Cinnamon CR1 and Raven Series luminaires, 4 = MSS & DS luminaires, 5 = Spaulding Detroit III luminaires, 6 = MSY, PCS, RCL & DM luminaires with side arm mounting. First specify desired arm configuration followed by the "TR" notation.  
**Example:** SSS-25-40-7-CS-TR-DB  
<sup>2</sup> Specify option location using logic found in pole introduction pages.

Submitted by Swaney Lighting Associates Inc		Catalog Number: CR1-A-P12-H4-F-Q-COLOR	Type: SLA05-2904
 <b>Job Name:</b> Davis Dental Clinic Architect: SCOTT SIMONS ARCHITECTS		Notes:	

## CIMARRON SERIES

Cat. #	Approvals	
Job	Type	

**SPAULDING  
LIGHTING**

### APPLICATIONS

- Area and wall lighting.

### SPECIFICATIONS

- IES Type II, III, IV, V (square) light distributions
- Flat lens design for full cutoff control
- 175w to 400w lamps in HPS, MH, Super MH, and Pulse Start for design flexibility
- Mounts on upswept, straight arms for poles or on wall bracket for a uniform project look
- 5 standard, 2 premium, and custom colors are available

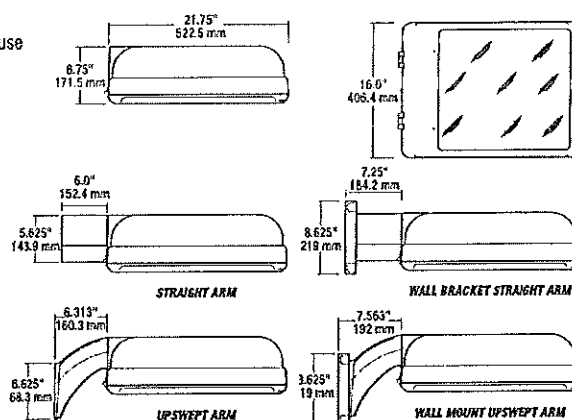
### LISTINGS

- UL and CSA certified for outdoor use in wet locations.



For more detail, see back.

EPA = 1.2 ft<sup>2</sup> (single unit with arm)



## ORDERING INFORMATION

### ORDERING EXAMPLE

**CR1** - **A** - **H17** - **H2** - **F** - **Q** - **DB** - **PR1**  
 Series Mounting Wattage/Source Lamp Orientation/Distribution Lens Voltage Color Options

### SERIES

**CR1** Cimarron

### MOUNTING

- A1** Arm Mount Construction (6" straight rigid arm Included & acceptable for 90° configurations)
- A0** Decorative Arm Mount Const. (6" decorative upswept arm incl. & acceptable for 90° configurations)
- WB** Wall Bracket Const. (includes Wall Bracket & 6" straight arm unless WBAD option is chosen which substitutes Decorative Upswept Arm)
- 0** No Arm or Wall Bracket (only order without arm or wall bracket when they are ordered as accessory)

### WATTAGE/SOURCE

#### METAL HALIDE

**H17** 175W (ED-28)  
**H25** 250W (ED-28)  
**H40** 400W (ED-28)

#### SUPER METAL HALIDE

**MS17** 175W (ED-28)  
**MS25** 250W (ED-28)  
**MS40** 400W (ED-28)

#### PULSE START METAL HALIDE

**P10** 100W (ED-17)  
**P12** 125W (ED-17)

**P15** 150W (ED-28)  
**P20** 200W (ED-28)  
**P25** 250W (ED-28)  
**P32** 320W (ED-28)  
**P35** 350W (ED-28)  
**P40** 400W (ED-28)

1 When ordering poles, specify Pole Drill Pattern #2 for A and A0 mounting.

### WATTAGE/SOURCE con't

#### HIGH PRESSURE SODIUM

**S10** 100W (ED-23 1/2)  
**S15** 150W (ED-23 1/2)  
**S25** 250W (ED-18)  
**S40** 400W (ED-18)

### LAMP ORIENTATION/DISTRIBUTION

**H2** Horizontal II  
**H3** Horizontal III  
**H4** Horizontal IV  
**H5** Horizontal V (square)

### LENS

**F** Flat

### VOLTAGE

**Q** Quad-Tap\* (120, 208, 240, 277V)  
**V** Five-Tap (120, 208, 240, 277, 480V) (250 & 400 MH, 250 & 400 HPS only)  
**5** 480V  
**T** 120, 277, 347V  
**0** No Ballast  
**E** 50 Hz 220/240V (250 & 400 MH, 250 & 400 HPS only)

### COLOR

**DB** Dark Bronze  
**BL** Black  
**WH** White  
**GR** Gray  
**PS** Platinum Silver  
**RD** Red (premium color)  
**FG** Forest Green (premium color)  
**CC** Custom Color (premium color)

PLEASE SPECIFY COLOR

### OPTIONS

**WBAD** Substitutes Decorative Upswept Arm when WB wall bracket mounting is chosen  
**RPA2** Round Pole Adapter (2 3/4"-3 1/4")  
**RPA3** Round Pole Adapter (3 1/4"-3 3/4")  
**RPA4** Round Pole Adapter (3 3/4"-4 1/2")  
**RPA5** Round Pole Adapter (5")  
**RPA6** Round Pole Adapter (6")  
**F1** Fusing - 120V  
**F2** Fusing - 208V  
**F3** Fusing - 240V  
**F4** Fusing - 277V  
**F5** Fusing - 480V  
**F6** Fusing - 247V  
**P1** Photo Button - 120V  
**P2** Photo Button - 208V  
**P3** Photo Button - 240V  
**P4** Photo Button - 277V  
**P6** Photo Button - 347V  
**PR1** Photo Cell Receptacle - 120V  
**PR2** Photo Cell Receptacle - 208V  
**PR3** Photo Cell Receptacle - 240V  
**PR4** Photo Cell Receptacle - 277V  
**PR5** Photo Cell Receptacle - 480V  
**PR6** Photo Cell Receptacle - 347V  
**QZ** Quartz RS with lamp  
**HS** Internal House Side Shield (available for H2, H3 & H4 distributions)  
**VG** Polycarbonate Vandal Guard  
**L** Lamp

**SELECT UNITS ARE STOCKED FOR IMMEDIATE SHIPMENT.**

Submitted by Swaney Lighting Associates Inc



**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
CR1-A-P12-H4-F-Q-COLOR

**Type:****Notes:**

SLA05-2904

## ACCESSORIES

### CIMARRON ACCESSORIES

CATALOG #	DESCRIPTION
ARM-CR-S-S-XX <sup>1</sup>	6" Rigid Straight Arm
ARM-CRD-S-S-XX <sup>1,2</sup>	6 1/2" Rigid Upswept Arm
ARM-CR-K-TA-XX <sup>1</sup>	Tenon Arm (single) adjustable
ARM-CR-TK-TA-XX <sup>1</sup>	Tenon Arm (double 180°) adjustable
ARM-CR-K-S-XX <sup>1,2</sup>	Adjustable Arm (for flat surfaces)
CR1-PVG	Polycarbonate Vandal Guard
CR1-HS-23	Internal House Side Shield (H2 & H3 distributions)
CR1-HS-4	Internal House Side Shield (H4 distribution)
CR-RPA2-XX <sup>1</sup>	Round Pole Adapter for Straight Arm (2 3/4" - 3 1/4")
CR-RPA3-XX <sup>1</sup>	Round Pole Adapter for Straight Arm (3 1/4" - 3 3/4")
CR-RPA4-XX <sup>1</sup>	Round Pole Adapter for Straight Arm (3 3/4" - 4 1/2")
CR-RPA5-XX <sup>1</sup>	Round Pole Adapter for Straight Arm (5")
CR-RPA5-XX <sup>1</sup>	Round Pole Adapter for Straight Arm (6")
CRD-RPA2-XX <sup>1</sup>	Round Pole Adapter for Upswept Arm (2 3/4" - 3 1/4")
CRD-RPA3-XX <sup>1</sup>	Round Pole Adapter for Upswept Arm (3 1/4" - 3 3/4")
CRD-RPA4-XX <sup>1</sup>	Round Pole Adapter for Upswept Arm (3 3/4" - 4 1/2")
CRD-RPA5-XX <sup>1</sup>	Round Pole Adapter for Upswept Arm (5")
CRD-RPA6-XX <sup>1</sup>	Round Pole Adapter for Upswept Arm (6")
WB-CR-XX <sup>1</sup>	Wall Bracket

<sup>1</sup> Replace XX with color choice, eg: DB for Dark Bronze

<sup>2</sup> When ordering poles, specify Pole Drill Pattern #2

### CIMARRON TENON TOP POLE BRACKET ACCESSORIES

(RSS version requires round pole adapter)

CATALOG #	DESCRIPTION
SSS-490-XX <sup>1</sup>	Square Pole Tenon Adapter (4 at 90 degrees)
RSS-490-XX <sup>1</sup>	Round Pole Tenon Adapter (4 at 90 degrees)
RSS-3120-XX <sup>1</sup>	Round Pole Tenon Adapter (3 at 120 degrees)

<sup>1</sup> Replace XX with color choice, eg: DB for Dark Bronze

### ADDITIONAL ACCESSORIES

CATALOG #	DESCRIPTION
PTL-1	Photocontrol - Twist-Lock Cell (120V)
PTL-8	Photocontrol - Twist-Lock Cell (120-277V)
PTL-5	Photocontrol - Twist-Lock Cell (480V)
PTL-6	Photocontrol - Twist-Lock Cell (347V)
PSG	Shorting Cap - Twist-Lock

**HOUSING** Architecturally styled, one piece die-cast aluminum housing with nominal .125" wall thickness. Low profile design reduces the overall wind loading while providing a sleek, unobtrusive look which complements most building architectural styles.

**DOOR** Die-cast aluminum door hinges to housing and secures with two captive screws providing four points on contact ensuring a clean lens and optical assembly. Both the flat tempered glass and door are sealed with one-piece extruded silicone gaskets.

**OPTICS** Specular, anodized aluminum reflectors provide IES type II, III, IV, and V distributions with a horizontal lamp orientation. The type II, III, and V reflectors are one-piece hydroformed while the type IV is a multi-piece design. All meet IESNA Full Cutoff classification and are field rotate in 90 degree increments. House side shields available as either factory installed options or field installed accessories.

**MOUNTING** Two arm designs are available providing maximum design flexibility. The die-cast aluminum arm offers a sleek upswept look while the extruded straight arm includes the housings contoured lines for continuity of style. A wall bracket and pole/tenon accessories are also available allowing easy mounting for virtually any application.

**ELECTRICAL** Energy efficient HID lamps up to 400 watts. Pulse rated porcelain sockets have spring loaded, nickel plated center contact. All units offer factory or field-installable photocell options and fusing.

**BALLAST** HPF ballast circuit, starting rated at -20 deg F (-40 deg F for HPS). Ballast and other electrical components mounted directly to housing for excellent heat dissipation and long life.

**FINISH** Durable Lektrocote® TGIC thermoset polyester powder paint finish assures long life and maintenance free service. Standard finishes include Dark Bronze, Black, White, Gray, and Platinum Silver. Also available are Red, Forest Green, and custom colors.

**LISTING** UL 1598 approved and CSA Certified for wet location applications.

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

**SPAULDING**  
**LIGHTING**

Spaulding Lighting • 101 Corporate Drive, Suite L • Spartanburg, SC 29303 • PHONE: 864-599-6000

For more information visit our web site: [www.spauldinglighting.com](http://www.spauldinglighting.com)



**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
SSS-20-40-1-A1-DB

Notes:

**Type:**

SLA05-2904

# Poles

Hubbell Lighting and Spaulding Lighting's complete line of poles offer simple solutions for all your lighting needs from 6-60 feet in height. Pole applications include general floodlighting, sports lighting, auto dealerships, commercial site lighting, and roadways. Mounting configurations include tenon top, side mount, pad mount, or open top models to match any luminaire style.

Constructed with exacting standards, both our aluminum and steel poles meet strict guidelines for quality, strength, and finish. Protecting your investment is our Lektrocote paint or galvanized finish. Both guarantee your investment for years. From shaft cutting through painting, quality control inspections are conducted throughout a highly automated process.

Lastly, to ensure the finish is not damaged during shipment, all poles are protected with either cardboard or double-wrapped in foam and plastic.

## Pole Logic

①	②	③	④	⑤	⑥	⑦	⑧
S	S	S	10	40	1	A1	DB
Cross Section	Style	Material	Nominal Length	Nominal Shaft Dia.	Shaft Thickness	Mount Type	Finish

⊗ This pole logic is for reference use only. The appropriate pole table should be used when sizing and ordering poles.

①	<b>Cross Section</b>
S	Square
R	Round

②	<b>Style</b>
S	Straight
T	Tapered
H	Hinged (Square Steel Only)

③	<b>Material</b>
S	Steel
A	Aluminum

④	<b>Nominal Length</b>
06	6 Feet
08	8 Feet
10	10 Feet
12	12 Feet
14	14 Feet
16	16 Feet
18	18 Feet
20	20 Feet
25	25 Feet
27	27 Feet
30	30 Feet
35	35 Feet
39	39 Feet <sup>1</sup>
40	40 Feet
45	45 Feet
50	50 Feet
60	60 Feet

⑤	<b>Nominal Shaft Diameter</b>
30	3 Inch <sup>2</sup>
40	4 Inch <sup>2</sup>
45	4.5 Inch <sup>2</sup>
50	5 Inch <sup>2</sup>
55	5.5 Inch <sup>2</sup>
60	6 Inch <sup>2</sup>
65	6.5 Inch <sup>2</sup>
70	7 Inch <sup>2</sup>
80	8 Inch <sup>2</sup>
85	8.5 Inch <sup>2</sup>
90	9 Inch <sup>2</sup>
95	9.5 Inch <sup>2</sup>
10	10 Inch <sup>2</sup>
11	11 Inch <sup>2</sup>
12	12 Inch <sup>2</sup>

⑥	<b>Shaft Thickness</b>
1	Steel - Standard (11 GA / .119)
7	Steel - Heavy (7 GA / .179)
3	Steel - Extra Heavy (3 GA / .226 - .250)
A	Aluminum - Standard (.125)
B	Aluminum - Heavy (.188)
C	Aluminum - Extra Heavy (.220 - .250)

⑦	<b>Luminaire Mounting Type</b>
AX	Side - Single <sup>4</sup>
BX	Side - Double at 90° <sup>4</sup>
CX	Side - Double at 180° <sup>4</sup>
DX	Side - Triple at 90° <sup>4</sup>
EX	Side - Triple at 120° <sup>4</sup>
FX	Side - Quad at 90° <sup>4</sup>
P1	Pad Mount - Spider Type
P2	Pad Mount - Yoke Type
P3	Pad Mount - Yoke Type (Proformer XL only)
TR	Removable Tenon (2.375 x 4.25) <sup>5</sup>
TA	Tenon (2.375" OD)
TB	Tenon (2.875" OD)
OT	Open Top (for post top luminaires)
CD	Concord Top (use with Concord luminaires only)

⑧	<b>Finish</b>
DB	Dark Bronze
BL	Black
WH	White
GR	Gray
PS	Platinum Silver
RD	Red (Premium Color)
FG	Forest Green (Premium Color)
CC	Custom Color (Consult Factory)
PR	Primer Only
GL	Hot Dip Galvanized
NA	Natural Aluminum (aluminum poles only)

<b>Options</b>	
Q55	Internal Coating (Hubbell Seal)
Q18	15 Amp GFCI Receptacle and Cover <sup>6</sup>
Q22	Extra Handhole <sup>6</sup>
Q26	.5" Coupling <sup>6</sup>
Q27	.75" Coupling <sup>6</sup>
Q30	2" Coupling <sup>6</sup>
Q32	Mid-pole Luminaire Bracket <sup>6</sup>
Q40	Vibration Damper
Q45	Square Base Cover <sup>6</sup>
Q46	Round Base Cover <sup>6</sup>
LAB	Less Anchor Bolts
CSA	CSA Certified (Consult Factory) <sup>6</sup>

<sup>1</sup> Round Tapered Steel Poles Only

<sup>2</sup> Round Straight Poles Only

<sup>3</sup> Tapered Poles Only

<sup>4</sup> DRILL PATTERNS: Replace X with the following: 1 = Spaulding luminaires with a straight pole (4-bolt), 2 = Spaulding luminaires for tapered pole (2-bolt) plus new Cimarron CR1 and Raven Series,

<sup>5</sup> 4 = Hubbell DS and MSS luminaires, 5 = Detroit III 4-bolt design (square poles only), 6 = Hubbell MSV, RCS, RCL & DM luminaires (including tapered poles), 9 = Devine luminaires.

<sup>6</sup> Specify option location using logic found in pole introduction pages.

<sup>7</sup> Optional base cover only needed when not provided as standard.

<sup>8</sup> Optional round base cover.

<sup>9</sup> SSS Poles Only

<sup>10</sup> Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by "TR" notation.

Example: SSS-25-40-7-CB-TR-DB



**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
SSS-20-40-1-A1-DB

Notes:

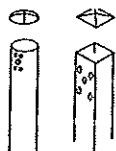
**Type:**

SLA05-2904

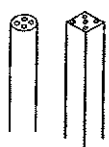
# Poles

## Luminaire Mounting

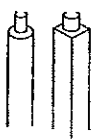
Side Mount



Pad Mount



Tenon Top

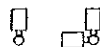


Open Top

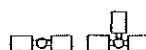


## Side Mounting Locations

A B



C D

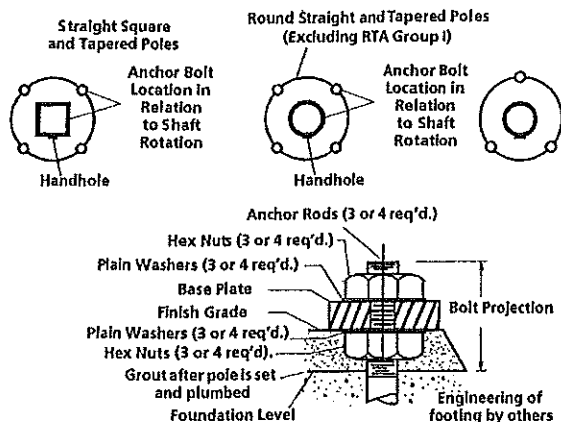


E F



Denotes handhole location

## Anchor Bolt Detail Base Diagram

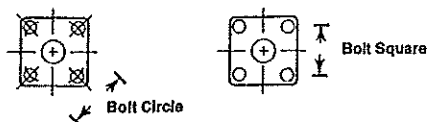
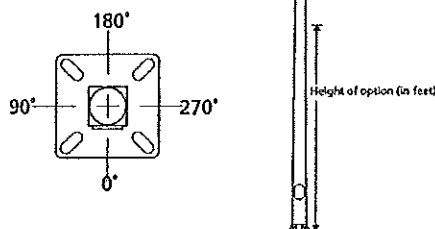


## Option Orientation

Follow the logic below when ordering location specific options.

For each option, include its orientation (in degrees) and its height (in feet). Example: Option Q26 should be ordered as:

SSS-20-40-1-A1-DB-Q26-0-16  
(.5" coupling on the handhole/arm side of pole, 16 feet up from the pole base)



## Standard Anchor Bolts and Template

(Included with pole purchase)

TAB-15	.5 x 15 x 3" (Non-Galvanized)
TAB-30-M38	.75 x 30 x 3" (Galvanized)
TAB-36-M38	1 x 36 x 4" (Galvanized)
TAB-42-M38	1.25 x 42 x 6" (Galvanized)

Note: Fabricated from high tensile steel, each anchor bolt has two nuts and two washers. Galvanized anchor bolts are hot dipped. (Galvanizing includes threaded portion plus six inches)

## Pole Base Covers

Catalog Number	Description
<b>Pole Base Covers for Square Poles</b>	
SBC-4-XX	10.5" Sq x 5" Deep (use on 4" Sq Poles)
SBC-4L-XX	12.25" Sq x 5" Deep (use 4" Sq Poles)
SBC-5-XX	12.25" Sq x 5" Deep (use on 5" Sq Poles)
SBC-6-XX	12.25" Sq x 5" Deep (use on 6" Sq Poles)
<b>Pole Base Covers for Round Poles</b>	
SBC-3R-XX	9" Sq x 5" Deep (use on 3" Round Poles)
SBC-4R-XX	10.5" Sq x 5" Deep (use on 4" Round Poles)
SBC-45R-XX	10.5" Sq x 5" Deep (use on 4.5" Round Poles)
SBC-5R-XX	10.5" Sq x 5" Deep (use on 5" Round Poles)
SBC-6R-XX	10.5" Sq x 5" Deep (use on 6" Round Poles)
RBC-4R-XX	10.91" Dia. x 5" Deep (use on 4" Round Poles)
RBC-4RL-XX	14.35" Dia. x 5" Deep (use on 4" Round Poles)
RBC-45R-XX	10.91" Dia. x 5" Deep (use on 4.5" Round Poles)
RBC-45RL-XX	14.35" Dia. x 5" Deep (use on 4.5" Round Poles)
RBC-5R-XX	11.91" Dia. x 5" Deep (use on 5" Round Poles)
RBC-5RL-XX	14.35" Dia. x 5" Deep (use on 5" Round Poles)
RBC-6R-XX	11.91" Dia. x 5" Deep (use on 6" Round Poles)
RBC-6RL-XX	14.35" Dia. x 5" Deep (use on 6" Round Poles)



**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
SSS-20-40-1-A1-DB

**Notes:**

**Type:**

SLA05-2904

# Poles-SSS Square Straight Steel

- Square Straight Steel Shaft
- One-piece construction
- Side, Tenon, or Pad mounting available
- Ground lug standard
- Galvanized anchor bolts and template included (4-bolt design)
- Base cover standard (Square)
- Gasketed hand hole cover standard
- Lektrocote finish standard
- CSA certification available

Catalog Number	Pole Ht.		Nominal Shaft Dim.	Wind Load Rating <sup>1</sup>						Wall Thick.	Bolt Circle (Inch)		Bolt Sq.	Base Plate (sq.)	Anchor Bolt Size	Bolt Proj.	Pole Wt. (lbs)
	ft	m		70 MPH	80 MPH	90 MPH	100 MPH	120 MPH	Sig.		Bolt Circle						
SSS-10-40-1-XX-XX	10	3.0	4	38	28.5	22	17	11	119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	75 x 30 x 3"	4"	91	
SSS-10-50-1-XX-XX	10	3.0	5	60	49	36	28	19	119	11"	10-13.5"	7.1-9.5"	12 x 1"	75 x 30 x 3"	4"	106	
SSS-12-40-1-XX-XX	12	3.7	4	28	21	15	12	7.5	119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	75 x 30 x 3"	4"	104	
SSS-12-50-1-XX-XX	12	3.7	5	45	33	25	20	13	119	11"	10-13.5"	7.1-9.5"	12 x 1"	75 x 30 x 3"	4"	122	
SSS-14-40-1-XX-XX	14	4.3	4	23	17	12.5	9.5	6	119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	75 x 30 x 3"	4"	119	
SSS-14-50-7-XX-XX	14	4.3	4	34.5	25.5	20	15	9.5	179	11"	8.5-12"	6-8.4"	11 x 1"	75 x 30 x 3"	4"	158	
SSS-14-50-1-XX-XX	14	4.3	5	38	28.5	21.5	16.5	10.5	119	11"	10-13.5"	7.1-9.5"	12 x 1"	75 x 30 x 3"	4"	138	
SSS-16-40-1-XX-XX	16	4.9	4	19.5	14	10.5	7.5	4	119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	75 x 30 x 3"	4"	128	
SSS-16-40-7-XX-XX	16	4.9	4	29.5	21.5	16	12	8	179	11"	8.5-12"	6-8.4"	11 x 1"	75 x 30 x 3"	4"	176	
SSS-16-50-1-XX-XX	16	4.9	5	32	23.5	17.5	13.5	8	119	11"	10-13.5"	7.1-9.5"	12 x 1"	75 x 30 x 3"	4"	163	
SSS-16-50-7-XX-XX	16	4.9	5	47.5	35.5	27	21.5	13.5	179	11"	10-13.5"	7.1-9.5"	12 x 1"	75 x 30 x 3"	4"	214	
SSS-18-40-1-XX-XX	18	5.5	4	16.5	11.5	8.5	6	3	119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	75 x 30 x 3"	4"	147	
SSS-18-40-7-XX-XX	18	5.5	4	25.5	18	13.5	10.5	6	179	11"	8.5-12"	6-8.4"	11 x 1"	75 x 30 x 3"	4"	201	
SSS-18-50-1-XX-XX	18	5.5	5	27.5	20	14	11	6	119	11"	10-13.5"	7.1-9.5"	12 x 1"	75 x 30 x 3"	4"	175	
SSS-18-50-7-XX-XX	18	5.5	5	42	31	23.5	18	11	179	11"	8.5-12"	6-8.4"	12 x 1"	75 x 30 x 3"	4"	243	
SSS-20-40-1-XX-XX	20	6.1	4	13.5	9.5	6.5	4.5	1.8	119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	75 x 30 x 3"	4"	160	
SSS-20-40-7-XX-XX	20	6.1	4	22	16	11.5	8.5	4.5	179	11"	8.5-12"	6-8.4"	11 x 1"	75 x 30 x 3"	4"	173	
SSS-20-50-1-XX-XX	20	6.1	5	23.5	17	12	9	4.5	119	11"	10-13.5"	7.1-9.5"	12 x 1"	75 x 30 x 3"	4"	191	
SSS-20-50-7-XX-XX	20	6.1	5	36.5	27	20	15.5	9	179	11"	10-13.5"	7.1-9.5"	12 x 1"	75 x 30 x 3"	4"	266	
SSS-20-60-7-XX-XX	20	6.1	6	51	38	28.5	22	14.5	179	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	312	
SSS-25-40-1-XX-XX	25	7.6	4	6.5	5	3	1.5	NR	119	11"	8-11"	5.6-7.8"	10.25 x 0.75"	1 x 36 x 4"	4"	238	
SSS-25-40-7-XX-XX	25	7.6	4	14.5	10	6.5	4.5	1.4	179	11"	8.5-12"	6-8.4"	11 x 1"	1 x 36 x 4"	4"	268	
SSS-25-60-1-XX-XX	25	7.6	6	15	10.5	6.5	4	NR	119	11"	10-13.5"	7.1-9.5"	12 x 1"	1 x 36 x 4"	4"	231	
SSS-25-50-7-XX-XX	25	7.6	5	25	19	12.5	8.5	4	179	11"	10-13.5"	7.1-9.5"	12 x 1"	1 x 36 x 4"	4"	324	
SSS-25-60-3-XX-XX	25	7.6	5	36.5	26	19	14	8	250	11"	10-13.5"	7.1-9.5"	12 x 1"	1 x 36 x 4"	4"	437	
SSS-25-60-7-XX-XX	25	7.6	6	38.5	28	20.5	15	8	179	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	404	
SSS-27-40-7-XX-XX	27	8.2	4	-	9.4	-	4.2	1.2	179	11"	8.5 x 12"	6-8.4"	11 x 1"	1 x 36 x 4"	4"	290	
SSS-30-40-7-XX-XX	30	9.1	4	6.5	4.5	2.5	1.5	NR	179	11"	8.5 x 12"	6-8.4"	11 x 1"	1 x 36 x 4"	4"	313	
SSS-30-50-1-XX-XX	30	9.1	5	7.5	5.5	2.5	NR	NR	119	11"	10-13.5"	7.1-9.5"	12 x 1"	1 x 36 x 4"	4"	274	
SSS-30-50-7-XX-XX	30	9.1	5	18	12	8	4.5	NR	179	11"	10-13.5"	7.1-9.5"	12 x 1"	1 x 36 x 4"	4"	398	
SSS-30-60-3-XX-XX	30	9.1	5	22	16	13	8	3.8	250	11"	10-13.5"	7.1-9.5"	12 x 1"	1 x 36 x 4"	4"	537	
SSS-30-60-7-XX-XX	30	9.1	6	30	20	14	9	3.4	179	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	467	
SSS-30-60-3-XX-XX	30	9.1	6	42	30	22	16	8	250	12"	11-13.5"	7.8-9.5"	12 x 1"	1.25 x 42 x 6"	4"	630	
SSS-35-60-7-XX-XX	35	10.7	6	20.5	13	8	4.5	NR	179	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	538	
SSS-35-60-3-XX-XX	35	10.7	6	26	18	12	7.5	3.4	250	12"	11-13.5"	7.8-9.5"	12 x 1"	1.25 x 42 x 6"	4"	726	
SSS-40-60-7-XX-XX	40	12.2	6	11	8	3.5	NR	NR	179	12"	11-13.5"	7.8-9.5"	12 x 1"	1 x 36 x 4"	4"	614	
SSS-40-60-3-XX-XX	40	12.2	6	14	10.5	5.5	2.5	NR	250	12"	11-13.5"	7.8-9.5"	12 x 1"	1.25 x 42 x 6"	4"	802	

<sup>1</sup> Allowable EPA with 1.3 gust factor. To determine max. pole loading weight, multiply allowable EPA by 30 lbs.

**Note** Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

## Pole Logic

1	2	3	4	5	6	7	8
S	S	S	25	40	1	A1	DB
Cross	Style	Material	Nominal	Nominal	Shaft	Mount	Finish
Section			Length	Shaft Dia.	Thickness	Type	

### Luminaire Mounting Type

AX	Side - Single <sup>1</sup>
BX	Side - Double at 90° <sup>1</sup>
CX	Side - Double at 180° <sup>1</sup>
DX	Side - Triple at 90° <sup>1</sup>
FX	Side - Quad at 90° <sup>1</sup>
P1	Pad Mount - Spider Type
P2	Pad Mount - Yoke Type
P3	Pad Mount - Yoke Type (Proformer XL only)
TA	Tenon (2.375" OD)
TB	Tenon (2.875" OD)
TR	Removable Tenon (2.375 x 4.25) <sup>2</sup>
CD	Concord Luminaire
OT	No drilling (includes pole cap)

### Finish

DB	Dark Bronze
BL	Black
WH	White
GR	Gray
PS	Platinum Silver
RD	Red (Premium Color)
FG	Forest Green (Premium Color)
CC	Custom Color (Consult Factory)
PR	Primer Only

### Options

Q55	Internal Coating (Hubbell Seal)
Q18	15 Amp GFCI Receptacle and Cover <sup>3</sup>
Q22	Extra Handhole <sup>3</sup>
Q26	.5" Coupling <sup>3</sup>
Q27	.75" Coupling <sup>3</sup>
Q30	2" Coupling <sup>3</sup>
Q32	Mid-pole Luminaire Bracket <sup>3</sup>
Q40	Vibration Damper
LAB	Less Anchor Bolts
CSA	CSA Certified (consult factory)

<sup>1</sup> DRILL PATTERNS: Replace X with 1 = Spaulding luminaires with a straight pole (4-bolt), 2 = Cimarron CR1 and Raven Series luminaires, 4 = MSS & DS luminaires, 5 = Spaulding Detroit 81 luminaires, 6 = MSV, PCS, RCL & DIM luminaires

<sup>2</sup> Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the "TR" notation.

**Example:** SSS-25-40-7-C6-TR-DB

<sup>3</sup> Specify option location using logic found in pole introduction pages.





**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
SP1-ANG-GR5/100MH-VOLT?/  
**COLOR**  
Notes:

Type:

SLA05-2904

SPECTRA™

SP1 ANG - Large Scale • Angled Hood

DATE

TYPE

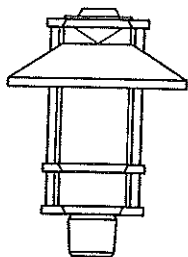
SP1 ANG  
FIXTUREFIXTURE / HOOD  
1/2LENS ELEMENT  
3LAMP BALLAST  
4COLOR  
5

PAGE 1 OF 2

HOOD FINISH  
6OPTIONS  
7ARM  
8  
SEE PG. 2POLE  
9  
SEE POLE SECTIONPLEASE SPECIFY  
VOLTAGE

## 4 LAMP/BALLAST

## 5 COLOR PLEASE SPECIFY COLOR



DIMENSIONS:  
22" / 560MM DIA X 29.2" / 740MM  
WEIGHT: 46 POUNDS EPA: 2.27  
IP: 65

## 3 LENS ELEMENT

☐ GLA frosted glass diffuser

☐ GR3 glass refractor type 3

☐ GR5 glass refractor type 5

☐ LDL lightly diffused lens

☐ CF  
120/277 electronic ballast for use with  
4 pin, 32 or 42 watt T-4 compact fluo-  
rescent lamps. Not available for GR3  
or GR5.

☐ 50MH  
50 watt metal halide multitap ballast,  
120/277 volt.

☐ 70MH  
70 watt metal halide multitap ballast,  
120/208/240/277 volt.

☐ 70MHT6  
70 watt metal halide multitap ballast,  
120/277 volt. Uses a G12 base, clear  
T-6 ceramic MH lamp.

☐ 100MH  
100 watt metal halide multitap ballast,  
120/208/240/277 volt.

☐ 150MH  
150 watt metal halide multitap ballast,  
120/208/240/277 volt.

☐ 150MHT6  
150 watt metal halide multitap ballast,  
120/208/240/277 volt. Uses a G12  
base, clear T-6 ceramic MH lamp.

☐ 175MH  
175 watt metal halide multitap ballast,  
120/208/240/277 volt.

☐ 50HPS  
50 watt high pressure sodium multitap  
ballast, 120/277 volt.

☐ 70HPS  
70 watt high pressure sodium multitap  
ballast, 120/208/240/277 volt.

☐ 100HPS  
100 watt high pressure sodium multi-  
tap ballast, 120/208/240/277 volt.

☐ 150HPS  
150 watt high pressure sodium multi-  
tap ballast, 120/208/240/277 volt.

☐ INC  
Incandescent  
150 watt maximum for SP1  
Lamps not included.  
Unless noted, use ED-17 lamps.

All fixtures prewired for 277 volts

- ☐ WHT white powder coat  
☐ BLK black powder coat  
☐ DGN dark green powder coat  
☐ DBZ dark bronze powder coat  
☐ GALV galvanized powder coat  
☐ VGR verde green powder coat  
☐ CRT corten powder coat  
☐ MAL matte aluminum powder coat  
☐ ATG antique green powder coat  
☐ LGY light warm gray powder coat  
☐ RAL # \_\_\_\_\_  
☐ CUSTOM \_\_\_\_\_  
☐ OTHER \_\_\_\_\_

## 6 OPTIONAL HOOD FINISH

- ☐ STS stainless steel  
☐ COP satin natural copper

## 7 OPTIONS

- ☐ 347 120/227/347 volt ballast  
except 70MHT6  
☐ AWM1 wall mounted arm for SP1  
☐ SAP1 arm mount for SP1.  
Designed to slip over a  
4"/100mm diameter pole.  
☐ TAP1 twin arm mount for SP1.  
Designed to slip over a  
4"/100mm diameter pole.  
☐ HSS house side shield-field  
installed

JOB NAME:

SOLD TO

PO #

Approvals

ARCHITECTURAL AREA LIGHTING

14249 Artesia Blvd / La Mirada, CA 90638

714 994.2700 / fax 714 994.0522 / www.aal.net

Ref:SP1ANG.pdf

copyright 2003, design patented



**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
SP1-ANG-GR5/100MH-VOLT?  
**COLOR**  
**Notes:**

**Type:**

SLA05-2904

**SPECTRA™**

SP1 ANG - Large Scale • Angled Hood

PAGE 2 OF 2

#### HOUSING

The fixture housing is all cast aluminum, A356 alloy, free of any porosity, foreign materials, or cosmetic fillers. The ballast is mounted internally and accessed by loosening two captive bolts and lifting off the top of the fixture. The top cover is hinged and secured with one captive tool-less fastener for relamping. The top is sealed with a molded silicone gasket. The upper reflector cone is matte finished anodized aluminum. All lenses are molded, seamless high impact lighting grade acrylic. The lens is sealed to the housing with a molded silicone gasket on the top and bottom. The vertical struts are matte finished 316 stainless steel. All internal and external hardware is stainless steel. All female threads on the aluminum parts are cast in place brass inserts to insure no thread seizure.

The fixture shall slip over a 4"/100mm round post top and secured with six stainless steel set screws.

The shade is spun from 6061 T-6 aluminum, 316 stainless steel or 110 copper. The shade has a beaded edge for added strength. The underside of the painted shades (only) are finished in a high reflectance white powder coating. Copper and stainless steel shades are unfinished to develop a patina.

The GLA element is frosted borosilicate glass with a twist on connection to the lower cone assembly. The cone is matte finished anodized aluminum.

The GR3 and GR5 are precision molded borosilicate glass refractors with a type 3 or type 5 distribution. The refractors are mounted to a gasketed aluminum holder with an internal pressure plate.

The LDL lens is acrylic with a lightly diffused internal finish.

#### ELECTRICAL

The ballast is integral to the fixture, mounted on a prewired module with a quick disconnect plug. The ballast module has two keyhole slots and is removable by loosening two screws. All components and materials are U.L. recognized. Sockets are pulse rated porcelain. HID ballasts are high power factor, rated for -30°F starting. Ballasts are multitap, wired at the factory for 277 volts.

#### FINISH

Fixture finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

#### CERTIFICATION

The fixture is listed with ETL for outdoor, wet location use, UL1598 and Canadian CSA Std. C22.2 no.250.

#### WARRANTY

Fixture is warranted for three years. Ballast components carry the ballast manufacturer's limited warranty.

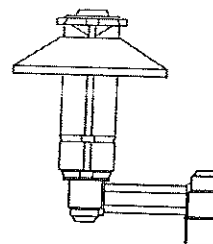
#### ARM AND POLE MOUNTING OPTIONS

**SAP1** - The pole mounted arm for a single fixture shall have a cast aluminum post top and fixture fitter with two round horizontal stainless steel bars. The post fitter shall slip over a 4"/100mm pole and be secured with six stainless steel set screws.

**TAP1** - The pole mounted arm for two fixtures at 180 degrees shall have a cast aluminum post top and fixture fitters with two round horizontal stainless steel bars. The post fitter shall slip over a 4"/100mm pole and be secured with six stainless steel set screws.

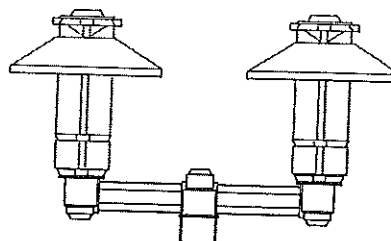
**AWM1** - The wall mounted arm for a SP1 fixture shall have a cast aluminum wall plate, cover and fixture fitter with two round horizontal stainless steel bars. The cover shall secure to the wall plate with four stainless steel set screws. Wall mounting hardware for securing the backplate to the wall and caulking is by others.

#### 8 ARM



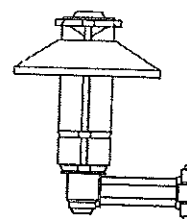
##### ☐ SAP1

SAP1 slips over a 4"/100mm pole.  
WEIGHT=9LBS. EPA=.63



##### ☐ TAP1

TAP1 slips over a 4"/100mm pole.  
WEIGHT=12LBS. EPA=.83



##### ☐ AWM1

Wall mounted arm for SP1.  
Wall plate is 9.25"/235mm x  
5.25"/135mm. WEIGHT=8LBS.

All arms regardless of hood diameter, have a 4"/100mm distance from the edge of the shade to the pole centerline or face of the wall.

**ARCHITECTURAL AREA LIGHTING**

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Ref:SP1ANG.pdf

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Submitted by Swaney Lighting Associates Inc



**Job Name:**  
Davis Dental Clinic  
Architect: SCOTT SIMONS ARCHITECTS

**Catalog Number:**  
PR4 4R12-125/COLOR

Type:

SLA05-2904

Notes:

PR4

POLE-WALL:

OPTIONS:

DATE:

4" ROUND POLE

	BASE	POLE-WALL	OAH	SHAFT	MAXIMUM ALLOWABLE EPA STEADY WIND				WT
					70/91	80/104	90/117	100/130	
<input type="checkbox"/>	PR4	4R8-125	8'/2.4M	4" ROUND X .125"	14.3	12.0	9.6	7.4	19
<input type="checkbox"/>	PR4	4R10-125	10'/3.1M	4" ROUND X .125"	11.8	8.6	6.6	5.2	22
<input checked="" type="checkbox"/>	PR4	4R12-125	12'/3.7M	4" ROUND X .125"	9.8	6.2	6.5	5.0	26
<input type="checkbox"/>	PR4	4R14-125	14'/4.3M	4" ROUND X .125"	7.9	6.6	5.2	3.9	30
<input type="checkbox"/>	PR4	4R16-125	16'/4.9M	4" ROUND X .125"	6.4	5.3	4.1	3.0	33
<input type="checkbox"/>	PR4	4R10-226	10'/3.1M	4" ROUND X .226"	22.2	18.5	15.0	12.0	36
<input type="checkbox"/>	PR4	4R12-226	12'/3.7M	4" ROUND X .226"	18.2	15.4	12.7	9.9	42
<input type="checkbox"/>	PR4	4R14-226	14'/4.3M	4" ROUND X .226"	14.7	12.4	10.2	8.0	49
<input type="checkbox"/>	PR4	4R16-226	16'/4.9M	4" ROUND X .226"	12.5	10.4	8.3	6.3	55

## OPTIONS

PLEASE SPECIFY COLOR

- ☐ LR Cast aluminum ladder rest, slips a 4" O.D. pole  
☐ GFI GFCI duplex receptacle with cast base welded to pole and clear polycarbonate cover per NEC code.  
☐ FS1 Single weatherproof fuseholder.  
☐ ORB Duplex receptacle with cast base welded to pole and clear polycarbonate cover per NEC code.  
☐ PHC Button type photocell and cast shield.

## SPECIFICATIONS

Pole base shall be cast A356 alloy aluminum free of any porosity, foreign materials, or cosmetic fillers. Pole shaft shall be seamless extruded, .125"(3MM) or .226"(6MM) 6061 T-6 aluminum. A reinforced hand hole measuring 2" x 4" (50mm x 100mm) shall be provided with an aluminum hand hole cover, gasketed and secured with two tamper proof, stainless steel screws. Ground lug is located on the same side as the cover. The base cover shall be one piece heavy spun aluminum.

## FINISH

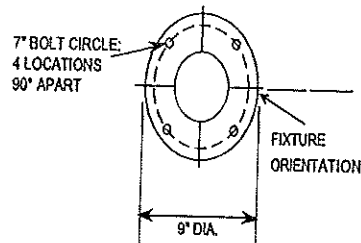
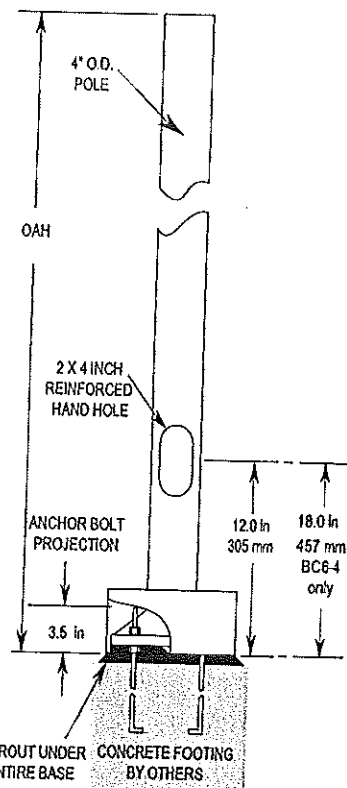
Pole finish shall consist of standard AAL finish.

## ANCHOR BOLTS

Anchor bolts shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolts for poles 14 feet or less are 5/8" x 21" x 3". Anchor bolts for poles more than 14 feet high are 3/4" x 24" x 3".

**WARNING:** Fixture must be grounded in accordance with local codes or the National Electric Code. Failure to do so may result in serious personal injury.

**CAUTION:** Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.



BOTTOM VIEW  
(INDICATES POLE IS LAYING DOWN  
WITH HANDHOLE FACING UP)

SOLD TO:

PO #

JOB NAME

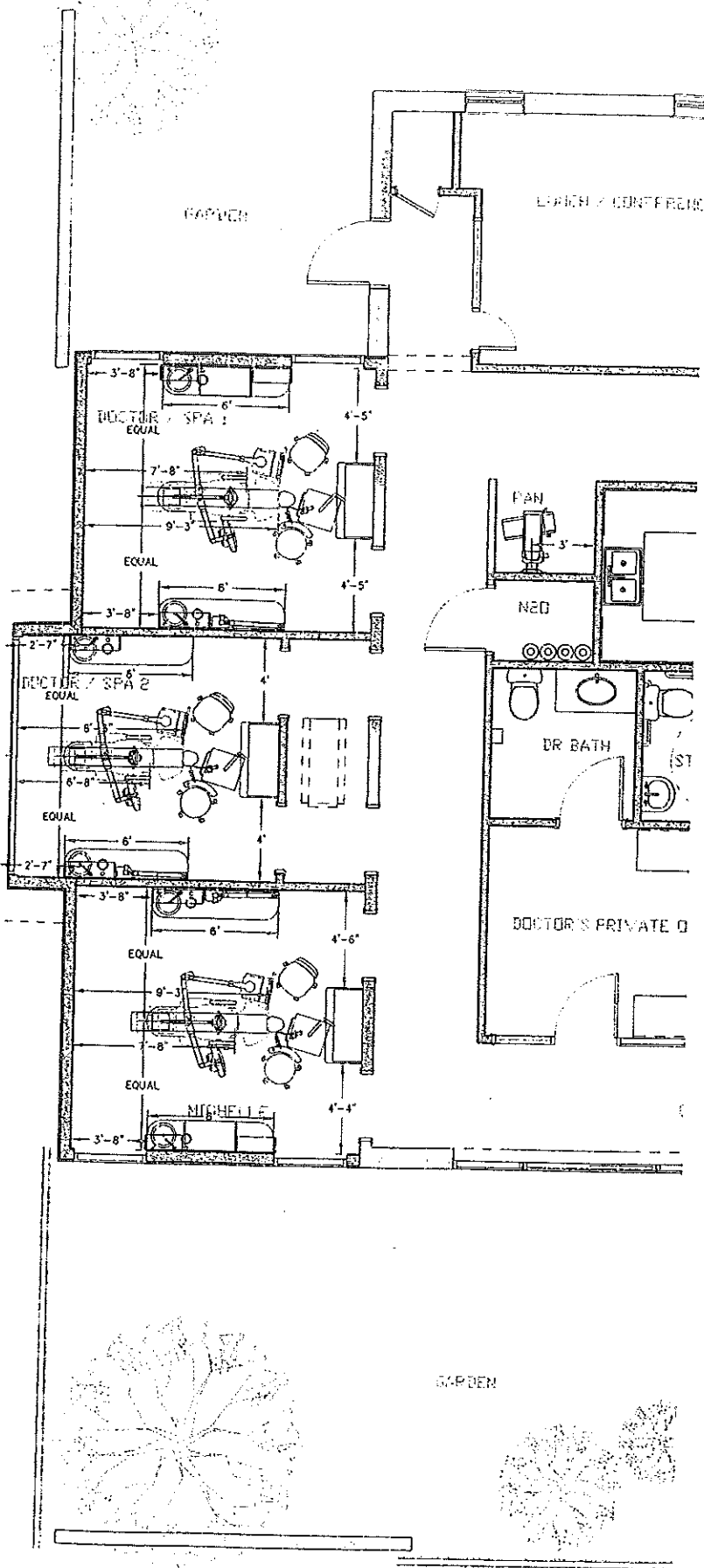
/

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APPROVALS

DIAGRAMS ARE NOT DRAWN TO EQUIVOCALLY THAT MAY BE E ARCHITECTURAL PLANS. ARCHITECTURAL DRAWINGS SHOULD CHOCSE TO USE YOU SHOULD RETAIN A EP AND COMPLETE SLECT FOR HELPING



#### ARCHITECT:

**Scott Simons Architects**  
75 York St  
Portland, Maine 04101  
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fax 207 828 4656  
http://www.simonsarchitects.com

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fax 207 767 9110  
email david@stroudwaterconstruction.com

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email mike@johnsonandjordan.com

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**Structural Engineer:**  
**Structural Design Consulting, Inc.**  
22 Oakmont Drive  
Old Orchard Beach, ME 04054-4121  
phone 207 934 8038  
fax 207 934 8039  
email djl@sdcinc.biz

SEAL:

  
**PATTERSON  
DENTAL**

#### REVISION DATE:

PHASE \_\_\_\_\_ DATE \_\_\_\_\_

#### PROJECT NAME:

**DAVIS DENTAL**

*Dental Office / Spa*  
**2271 CONGRESS STREET  
PORTLAND, ME**

#### DRAWING SCALE:

DATE OF ISSUE: 09/16/2005

PROJECT NUMBER: 2005-0080

STATUS:

**DESIGN DEVELOPMENT**

#### TITLE:

**EQUIPMENT  
LAYOUT PLAN**

DWG NO:

**DE101**



Prepared For Tomorrow; Delivered Today

## Field Work Order

Project Number: 304442 SP

Customer Name: ME PRINTING

Date: 1/21/09

System	
Type	<u>SIRE</u>
Make	<u>NOTIFIER</u>
Model	<u>1024</u>
Rev.	
Other	

Customer	
Name	<u>THE DORIA FL</u>
Contact	
Address	
City, St, Zip	
Phone	

Site	
Name	<u>ME PRINTING</u>
Contact	
Address	
City, St, Zip	
Phone	

### Requested Service:

INSTALL RELAY FOR DOOR  
holders

### Parts:

QTY	Part Number	Description

### Service Performed:

INSTALLED RELAY TO TRIP 110V DOOR HOLDERS  
TESTED RELAY & DOOR HOLDER WITH SPD ON 2ND FLOOR  
SULLY OPERATIONAL. PANEL GREEN ON DEPARTURE  
CHADLEY JAD

### Service Summary:

☐ Install

☒ Service

☐ Final

☐ Warrantee

☐ Maint Cont

☐ Inspection

Technician: CDREW

Return Trip Needed: Yes / (No)

Return Tech: \_\_\_\_\_

Total Travel Time: \_\_\_\_\_

Sales Follow up: \_\_\_\_\_

Yes / (No)

Salesman: \_\_\_\_\_

Total Labor: \_\_\_\_\_

Job Complete: \_\_\_\_\_

(Yes) / No

Date Scanned: \_\_\_\_\_

Customer Name (PRINT) X Peter Doria

Date 1/21/09

Customer Signature [Signature]

Title \_\_\_\_\_

[www.norrisinc.com](http://www.norrisinc.com)

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Bangor, ME 04401  
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Greenland, NH 03840  
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Fax 603-431-2397

**Vermont Office**  
PO Box 633  
Middlebury, VT 05753  
Phone 1-802-388-3473  
Fax 802-388-3472

# BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

✓ Footings/Building Location Inspection: Prior to pouring concrete

✓ Re-Bar Schedule Inspection: Prior to pouring concrete

✓ Foundation Inspection: Prior to placing ANY backfill

✓ Framing/Rough Plumbing/Electrical: Prior to any insulating or drywalling

✓ Final/Certificate of Occupancy: Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection. If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

✓ CERTIFICATE OF OCCUPANCIES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED

Signature of Applicant/Designee \_\_\_\_\_  
 Signature of Inspections Official \_\_\_\_\_  
 CBL: 938AA00 Building Permit #: 04/1833  
 Date: 1-7-05  
 Date: 1/2/05