

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0014856
Insp Area: 4

Site Address: 845 EL CAMINO AV SAC
Parcel No: 265-0293-026

Sub-Type: NOTHR
Housing (Y/N): N

CONTRACTOR
JET AGE M.A.C.
5428 BUSHNELL ST
RIVERSIDE CA

OWNER
BOMALICK MABEL R
7499 3 HOOPES DR
CITRUS HEIGHTS CA 95610

ARCHITECT

Nature of Work: ADD PARKING LOT LIGHTS (3 POLES)

CONSTRUCTION LENDING AGENCY: I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

X License Class C10 License Number 44107 Date 12-18-00 Contractor Signature [Signature]

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code: any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

____ I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

____ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves such projects with a contractor(s) licensed pursuant to the Contractors License Law)

____ I am exempt under Sec. _____ B & PC for this reason: _____
Date _____ Owner Signature _____

PAID
CITY OF SACRAMENTO
DEC 18 2000

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

X Date 12-18-00 Applicant/Agent Signature [Signature]

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

____ I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued

X I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE FUND Policy Number 1474738-00 Exp Date 04/01/2001

____ (This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

X Date 12-18-00 Applicant Signature [Signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

Wienerschnitzel # 313
 845 El Camino Ave
 Sacramento, Ca

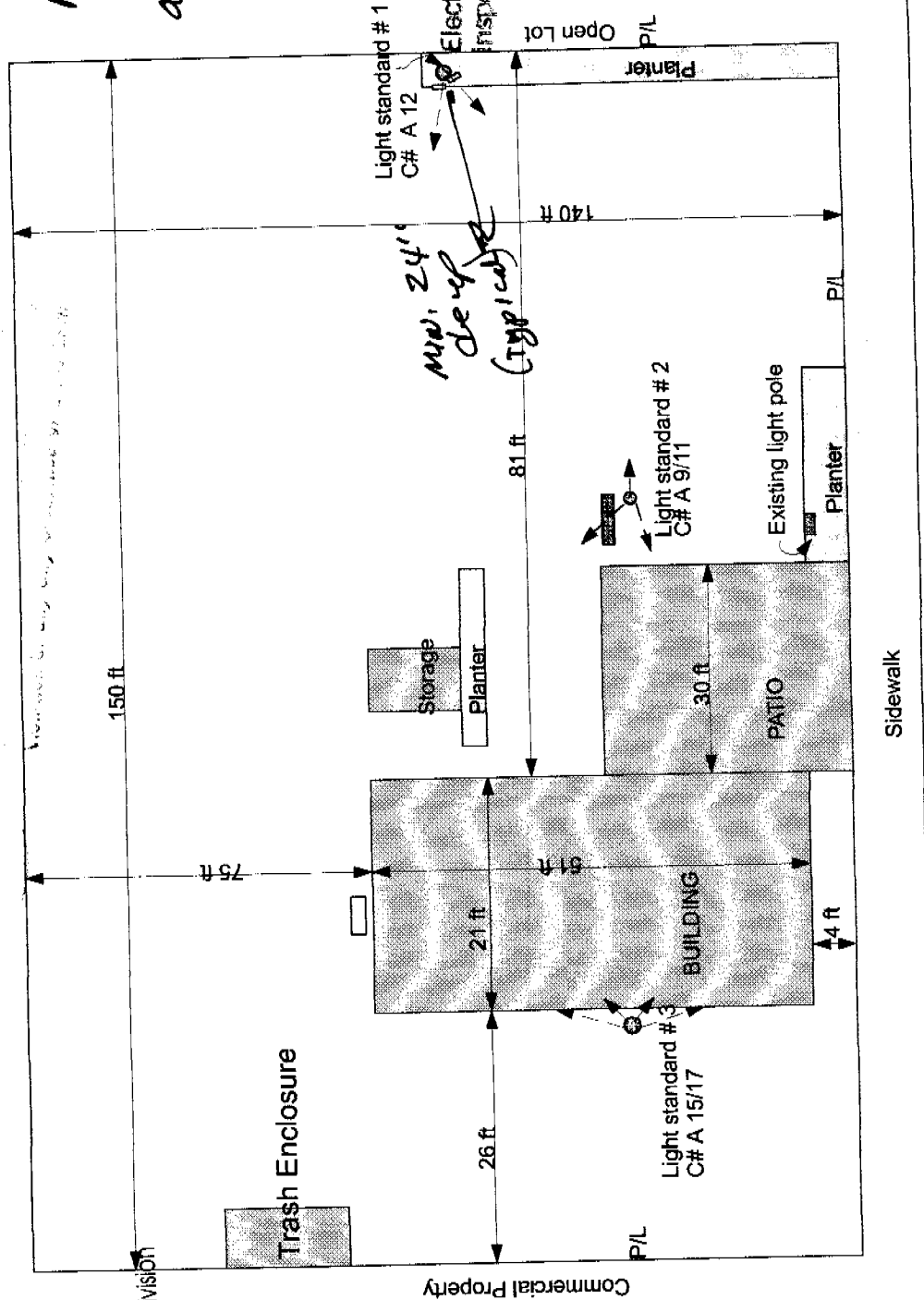
PROPOSED
 TO INSTALL 3 LIGHT STANDARDS
 with 400 w MH Fixtures
 Remove Roof floods

ISSUED

DEC 18 2000

Sacramento Building Division

*Removing flood
 lights on Bldg.
 adding (3) pole
 lights*

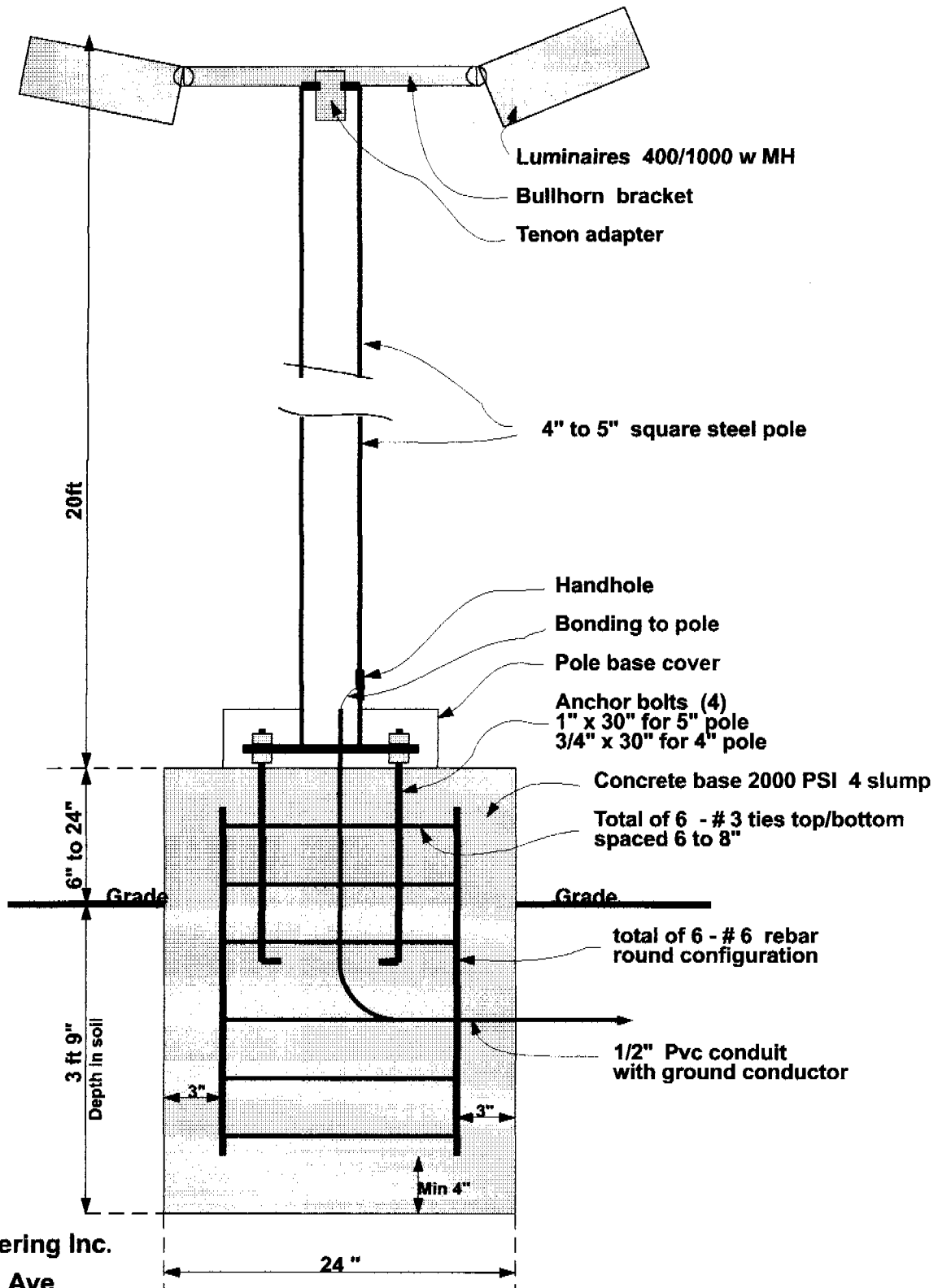


Centerline of El Camino Ave. ---

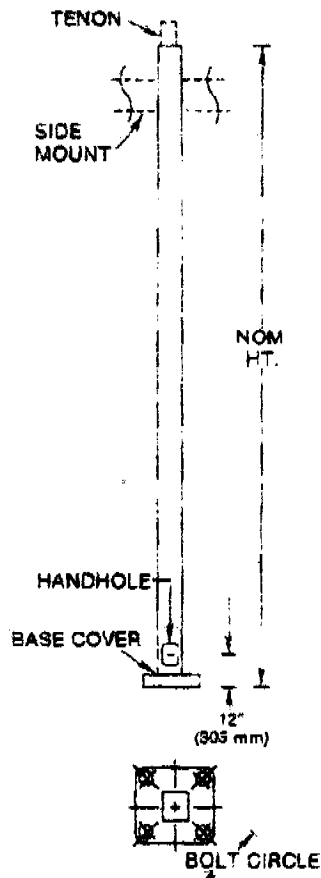
JET AGE M.A.C.
 5428 Bushnell
 Riverside, CA. 92505
 (909) 687-7826

Luminaire Configurations

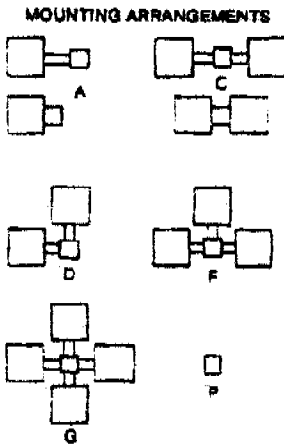
- 1.
- 2.
- 3.
- 4.



PLUMP Engineering Inc.
 13210 Florence Ave
 Santa Fe Springs, CA.
 (562) 777-0983



POLES



NOTE: VIBRATION DAMPERS AVAILABLE. CONSULT FACTORY.



SQUARE STRAIGHT STEEL POLES

For use with floodlight luminaires as well as post top and Magnu-Series architectural luminaires.

FEATURES SSP/SSC SERIES

- Square straight steel shaft
- One-piece construction, steel tubing
- 2 1/2" O.D. tenons, or machined side mount
- Ground lug standard
- Bolt template included
- Optional removable tenon
- Steel base
- Two-piece base cover
- Four "L" shaped anchor bolts with two nuts and two washers
- Standard finish LEKTROCOTE® primer
- C.S.A. certified option

ORDERING INFORMATION

Catalog Model # (1)	Pole Height		Wind Load Rating (2)				Pole Size	Base Square	Anchor Bolt Size (3)	Bolt Circle (3)	Bolt Projection (3)	Pole Weight (4)			
	FL	M	80 MPH	100 MPH	120 MPH	lbs.						kgs.			
GROUP I - 3"x4" HANDHOLE															
SSP-4100-XX	10	3.0	29.4	736	18.4	480	12.0	900	4.0"	8.0"	1/2"x30"x3"	8.0"	3.87"	88	39.9
SSP-4120-XX	12	3.7	28.6	690	14.6	365	8.2	230	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	98	44.5
SSP-4140-XX	14	4.3	19.2	480	11.4	285	7.0	173	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	110	49.9
SSP-4160-XX	16	4.9	12.6	315	7.2	180	4.0	100	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	122	55.3
SSP-4180-XX	18	5.5	10.2	255	5.4	135	2.7	87	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	135	61.2
SSP-4200-XX	20	6.1	8.4	210	4.0	100	1.8	37	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	147	66.7
SSP-4250-XX	25	7.6	4.5	112	1.0	25	—	—	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	178	80.1
SSP-4300-XX	30	9.1	6.2	130	1.3	32	—	—	4.0"	11.0"	1"x36"x4"	10-12"	4.12"	381	171.4
GROUP II - 3"x4" HANDHOLE															
SSP-4180-XX	18	5.5	30.0	750	18.2	455	11.4	285	5.0"	11.0"	1"x36"x4"	11.0"	4.12"	239	108.4
SSP-4200-XX	20	6.1	26.4	660	15.2	380	9.0	225	5.0"	11.0"	1"x36"x4"	11.0"	4.12"	263	119.3
SSP-4250-XX	25	7.6	18.0	460	9.4	235	4.6	115	5.0"	11.0"	1"x36"x4"	11.0"	4.12"	322	146.1
SSP-4300-XX	30	9.1	11.0	275	4.8	115	—	—	5.0"	11.0"	1"x36"x4"	11.0"	4.12"	381	171.4
GROUP III - 4"x6" HANDHOLE															
SSP-4300-XX	30	9.1	18.4	410	7.4	185	2.4	80	6.0"	13.0"	1"x36"x4"	12.0"	4.12"	458	207.7
SSP-4350-XX	35	10.7	18.8	405	8.2	205	2.4	80	6.0"	13.0"	1"x36"x4"	12.0"	4.12"	530	240.4
SSP-4400-XX	40	12.2	8.2	155	—	—	—	—	6.0"	13.0"	1"x36"x4"	12.0"	4.12"	602	273.1

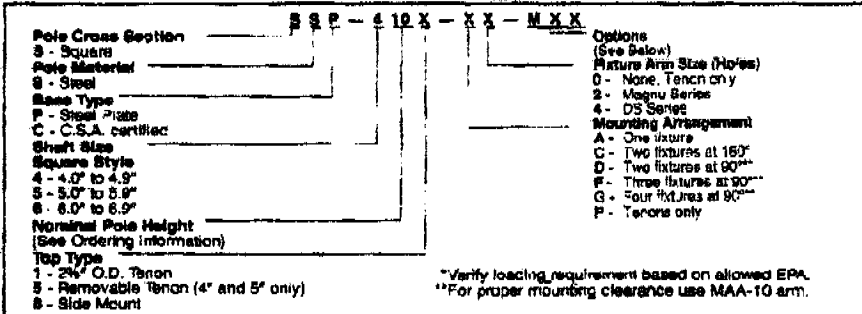
C.S.A. CERTIFIED - SSC SERIES

Catalog Model # (1)	Pole Height		Wind Load Rating (2)				Pole Size	Base Square	Anchor Bolt Size (3)	Bolt Circle (3)	Bolt Projection (3)	Pole Weight (4)			
	FL	M	80 MPH	100 MPH	120 MPH	lbs.						kgs.			
GROUP I - 3"x4" HANDHOLE															
SSC-4100-XX	10	3.0	29.4	735	18.4	480	12.0	900	4.0"	8.0"	1/2"x30"x3"	8.0"	3.87"	88	39.9
SSC-4120-XX	12	3.7	28.6	690	14.6	365	8.2	230	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	98	44.5
SSC-4140-XX	14	4.3	19.2	480	11.4	285	7.0	173	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	110	49.9
SSC-4160-XX	16	4.9	12.6	315	7.2	180	4.0	100	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	122	55.3
SSC-4180-XX	18	5.5	10.2	255	5.4	135	2.7	87	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	135	61.2
SSC-4200-XX	20	6.1	8.4	210	4.0	100	1.5	37	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	147	66.7
SSC-4250-XX	25	7.6	4.5	112	1.0	25	—	—	4.0"	9.0"	1/2"x30"x3"	8.0"	3.87"	178	80.1
SSC-4300-XX	30	9.1	5.2	130	1.3	32	—	—	4.0"	11.0"	1"x36"x4"	10-12"	4.12"	381	171.4
GROUP II - 3"x4" HANDHOLE															
SSC-4180-XX	18	5.5	30.0	760	18.2	455	11.4	285	5.0"	11.0"	1"x36"x4"	11.0"	4.12"	239	108.4
SSC-4200-XX	20	6.1	26.4	660	15.2	380	9.0	225	5.0"	11.0"	1"x36"x4"	11.0"	4.12"	263	119.3
SSC-4250-XX	25	7.6	18.0	460	9.4	235	4.6	115	5.0"	11.0"	1"x36"x4"	11.0"	4.12"	322	146.1
SSC-4300-XX	30	9.1	11.0	275	4.8	115	—	—	5.0"	11.0"	1"x36"x4"	11.0"	4.12"	381	171.4
GROUP III - 4"x6" HANDHOLE															
SSC-4300-XX	30	9.1	18.4	410	7.4	185	2.4	80	6.0"	13.0"	1"x36"x4"	12.0"	4.12"	458	207.7
SSC-4350-XX	35	10.7	18.8	405	8.2	205	2.4	80	6.0"	13.0"	1"x36"x4"	12.0"	4.12"	530	240.4
SSC-4400-XX	40	12.2	8.2	155	—	—	—	—	6.0"	13.0"	1"x36"x4"	12.0"	4.12"	602	273.1

- 1) Catalog Number, as listed, does not include tenons or mounting for side mounting. Desired fixture mounting must be specified by suffix for all X or M catalog numbers.
- 2) Maximum allowable EPA is based on steady winds of 80 and 100 MPH with gusts to 104 and 120 MPH respectively, 120 MPH steady winds with 156 MPH gusts. All calculations are based on a minimum yield of 48,000 PSI. Calculations per AASHTO 65.
- 3) Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will carry any claim for incorrect anchorage placement resulting from failure to use factory supplied template.
- 4) Anchor bolt weights not included.

Note: SSC series handhole covers have tamper resistant screws.

CATALOG LOGIC



OPTIONS

Factory installed, order by adding appropriate suffix. See page 254 for illustrations and complete descriptions.

Description	Suffix
Weatherproof enclosure	M18
LEKTROCOTE® finish	M50 thru M83
Hubbell Seal (internal coating)	M25
Removable tenon (SSP-4 and SSP-5 poles only)	SSP-4XX5-XX
Mid Pole Luminaire Bracket (3")	M32
Mid Pole Luminaire Bracket (2")	M32 (12)

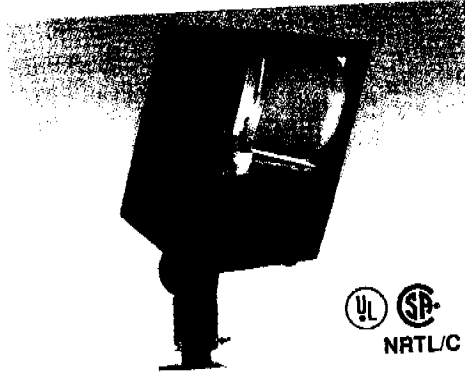
Magnuliter® MV / MH Series

MVK Series

MVK is designed for applications requiring an integral adjustable knuckle slipfitter. The slipfitter accommodates 2" pipe (2 3/8" O.D.), provides concealed wiring with its large, two-piece cast aluminum wiring chamber and has serrated teeth for positive positioning and vertical aiming. (4° increments)

Optics

Twin parabolic hydroformed reflectors produce an efficient wide beam distribution. MH (250-1000W) and HPS (150-600W) light sources are available.



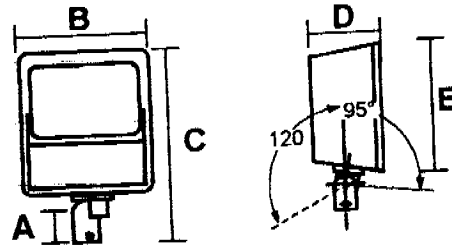
ORDERING INFORMATION - MVK / MVM Series

MVM Catalog Number	Mtg.	MVK Catalog Number	Mtg.	Photometry NEMA IES H x V	Watts	Weight		EPA	
						lbs.	kg	ft. ²	m ²
METAL HALIDE⁴									
MVM-0000H-X6X ¹				7 (146°) x 6 (115°)	400	19	8.6	2.3	.22
MVM-0250H-268		MVK-0250H-268		7 (146°) x 6 (115°)	250	36	16.3	2.3	.22
MVM-0250H-2F8		MVK-0250H-2F8		IV MOD	250	36	16.3	2.3	.22
		MVK-0250H-2A8		MCIII	250	36	16.3	2.3	.22
MVM-0400H-268		MVK-0400H-268		7 (146°) x 6 (119°)	400	41	18.6	2.3	.22
MVM-0400H-2F8 ²		MVK-0400H-2F8 ²		IV MOD	400	41	18.6	2.3	.22
		MVK-0400H-2A8 ²		MC III	400	41	18.6	2.3	.22
MVM-1000H-268 ³		MVK-1000H-268 ³		6 (130°) x 6 (114°)	1000	48	22.0	2.3	.22
HIGH PRESSURE SODIUM									
MVM-0250S-268		MVK-0250S-268		7 (144°) x 6 (113°)	250	39	17.7	2.3	.22
MVM-0250S-2F8		MVK-0250S-2F8		IV MOD	250	39	17.7	2.3	.22
		MVK-0250S-2A8 ¹		MC III	250	39	17.7	2.3	.22
MVM-0400S-268		MVK-0400S-268		7 (144°) x 6 (113°)	400	43	19.5	2.3	.22
MVM-0400S-2F8		MVK-0400S-2F8		IV MOD	400	43	19.5	2.3	.22
		MVK-0400S-2A8		MC III	400	43	19.5	2.3	.22
MVM-0600S-268 ⁵		MVK-0600S-268 ⁵		7 (136°) x 6 (118°)	600	46	21.1	2.3	.22

- For use with remote ballasts, maximum wattage—400.
 - Includes ED-28 Shape Lamp
 - BT-37 Shape Lamp and 3 ft. of 16/3 S.O. cord (cord on MVM style only) included
 - Mercury lamps may be operated in MH units except in "F" and "A" optics and 1000W.
 - Lamp included. (four second hot re-strike)
- Note:** Except as specifically noted, lamps are not included. All ballasts are HPF and Quad-Tap@ 120/208/240/277 volt. For 480 volt, change last digit 8 to 5. For Tri-Tap@ 120/277/347 volt change last digit 8 to 6. For 220/240 volt 50 Hz., consult factory. (not available in 600W HPS). Order mounting accessories separately. For floodlight mounting accessories see page 375.
- Note:** 150W HPS available, consult factory.

ACCESSORIES - Must be ordered separately

For more information on accessories see page 363. For catalog logic see page 363.



MVK Series

A	B	C	D	E
5 1/2"	16 3/8"	25 1/2"	9"	17 7/8"
140 mm	416 mm	648 mm	229 mm	454 mm

Hubbell Lighting, Inc.
359

Magnuliter® MV / MH Features — MVM Series

OUTDOOR: FLOODLIGHTING

ORDERING INFORMATION

MV Series

MVM Catalog Number	Mtg.	MVK Catalog Number	Mtg.	MVW Catalog Number	Mtg.	MVA† Catalog Number	Mtg.	Photometry MEAN/IES H"xV"	Watts	Weight		EPA	
										Lbs.	Kgs.	Ft'	M'
METAL HALIDE													
MVM-0000H-X6X†								7(146")x8(119")	150-400	19	8.8	2.3'	.22
MVM-0250H-268		MVK-0250H-268		MVW-0250H-268		MVA-0250H-2F8†		7(146")x8(115")	250	30	13.6	2.3'	.22
MVM-0250H-2F8		MVK-0250H-2F8		MVW-0250H-2A8		MVA-0250H-2A8†		IT MOD	250	30	13.6	2.3'	.22
		MVK-0250H-2A8		MVW-0250H-2A8				MC III	250	30	13.6	2.3'	.22
		MVK-0400H-268		MVW-0400H-268				7(146")x8(110")	400	33	15.0	2.3'	.22
MVM-0400H-268		MVK-0400H-268		MVW-0400H-268		MVA-0400H-2F8†		IT MOD	400	43	19.5	2.3'	.22
MVM-0400H-2F8		MVK-0400H-2F8		MVW-0400H-2F8		MVA-0400H-2A8†		MC III	400	33	15.0	2.3'	.22
		MVK-0400H-2A8		MVW-0400H-2A8				7(130")x8(114")	1000	48	22.0	2.3'	.22
MVM-1000H-268		MVK-1000H-268		MVW-1000H-268									
HIGH PRESSURE SODIUM													
MVM-0250S-268		MVK-0250S-268		MVW-0250S-268		MVA-0250S-2F8†		7(144")x8(113")	250	39	17.7	2.3'	.22
MVM-0250S-2F8		MVK-0250S-2F8		MVW-0250S-2F8		MVA-0250S-2A8†		IT MOD	250	39	17.7	2.3'	.22
		MVK-0250S-2A8		MVW-0250S-2A8				VC III	250	39	17.7	2.3'	.22
		MVK-0400S-268		MVW-0400S-268				7(144")x8(113")	400	43	19.5	2.3'	.22
MVM-0400S-268		MVK-0400S-268		MVW-0400S-268		MVA-0400S-2F8†		IT MOD	400	43	19.5	2.3'	.22
MVM-0400S-2F8		MVK-0400S-2F8		MVW-0400S-2F8		MVA-0400S-2A8†		MC III	400	43	19.5	2.3'	.22
		MVK-0400S-2A8		MVW-0400S-2A8				7(136")x8(118")	800	46	20.9	2.3'	.22
MVM-0600S-268**		MVK-0600S-268**		MVW-0600S-268**									

Except as specifically noted, lamps are not included.
 †Arm must be ordered separately, see options
 *MVA EPA is 1.1 ft.
 **For use with remote ballast, maximum wattage—400.
 †T-37 Shape Lamp and 31' of 18/3 S.O. cord (provided to luminaire on MVM style only) included.
 *Includes ED-26 Shape Lamp.
 All ballasts are H.P.F. and are QUAD TAP™ open (120/208/240/277V) for 480 volt, change last digit (8) to (9); for TR-IAP (120/277/347V), change last digit (8) to (9). 50 Hz available, consult factory. (900W not available in 50 Hz)
 **Includes lamp. Four (4) second hot Restrike standard

OPTIONS - Factory installed, order by adding suffix to catalog number.

Suffix	Description
-CPB**	Charcoal filter breather
-FX†	Fusing—single 120, 277, & 347V double 208, 240 and 480V; fuse included. Specify voltage by replacing "X" with the desired voltage (1—120V, 2—208V, 3—240V, 4—277V, 5—480V, 6—347V)
-PCR	Twist Lock photocontrol receptacle—specify voltage
-C(X)	18/3 prepared S.O. cord (replace "X" with cord length desired: 3-5ft, 8-9ft, 12-12ft.) (Specify voltage)
-L†	Unit with lamp (shipped separately—not installed)
-MS3	Gray Laktrocote finish
-MV4*	4" arm for pole side mounting (.2 EPA)
-MV10*	10" arm for pole side mounting (.5 EPA)

*For use with housing style "MVA" only. Designed to fasten through pole wall—if internal pole surface is not accessible or for wall mounting, use of MAA-WP is recommended.
 **Not available with "MVA" style housing.
 Note: Some units include lamp as standard check ordering information.

ACCESSORIES - Field installed, order separately.

Catalog Number	Description	Weight	
		Lbs.	Kgs.
MVM-27	Top Visor	.8	.3
MVMQ-27	Mesh guard	1.0	.5
MVMS-27	Polycarbonate shield†	1.0	.5
MVM-PCR	Photocontrol receptacle (120-480V) less photocontrol	.2	.1
MPBT-1	Button type photocontrol (120V)	.2	.1

†Visor and polycarbonate shield may be used together. Mesh guard for incandescent use only.
 *Not for use with 1000W units.

MOUNTING ACCESSORIES - Order separately.

Catalog Number	Description	Weight	
		Lbs.	Kgs.
MAL-WP-1	Wall plate for use when mounting MVA, MVW or MHW to walls.	1.8	.8
RED-24-1	4" C.D. round pole adapter for use with MVA, MVW or MHW series.	1.5	.7
ROS-25-1	5" C.D. round pole adapter for use with MVA, MVW or MHW series.	1.5	.7

Standard (in an Bronze Laktrocote) for gray change -1 to -3

SUGGESTED SPECIFICATION

Floodlight shall be Hubbell Lighting Magnifier series catalog number _____ for use with a _____ watt lamp.

MECHANICAL

The housing shall be die cast aluminum finished in dark bronze or gray Laktrocote. The lens assembly shall consist of a die cast aluminum door frame and a heat tempered and impact-resistant glass lens. A continuous high temperature silicone rubber gasket shall seal door to housing. The door frame shall be secured to the housing by two die-cast hinges and Hubbell Gard treated captive screws. 400W and lower wattage floodlight luminaires shall include a Power-Part ballast tray which contains all ballast components. Ready access to primary electrical connection for easy wiring and voltage selection without removing the Power-Part shall be provided. The Power-Part shall be retained by four screws and have a handle for easy removal. 1000W units, mounted directly to the casing for maximum thermal protection. 900W H.P.S., Type IV mod. and MCII units shall have electrical components shall have 4 second Hot Restrike. Reflector shall be either two-piece hydroformed for wide or asymmetric beam spread, three-piece for forward throw cutoff or a single hydroformed reflector for MCII distribution. Reflector shall be Anodized finish treated. Luminaire weight shall not exceed _____ lbs. Maximum effective projected area (EPA) shall not exceed 2.3 sq. feet or 1.1 sq. feet for arm mounted units. Mounting shall be either a three hole trunnion (yoke), 2" adjustable slipfitter (2% O.D.), adjustable knuckle for flat surface mounting, or a 4" or 10" arm. All exterior hardware shall be treated with Hubbell Gard protective finish for weatherability and to prevent galvanic corrosion.

PHOTOMETRIC PERFORMANCE

The optical system shall provide a minimum horizontal beam spread of _____ and a maximum vertical beam spread of _____ with a minimum efficiency of _____ %.

ELECTRICAL

The unit shall be supplied with a watertight compression bushing type cord connector for positive seal. Wiring access shall be obtained via a pivoting access cover plate supplied with captive hardware. The floodlight shall be U.L. 1572 listed, suitable for wet locations; CSA certified for Indoor/Outdoor use.



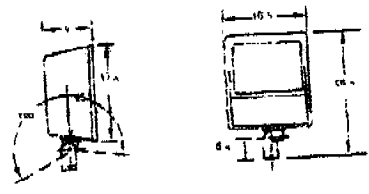
Lighting, Inc.


Hubbell/ Lighting, Inc. 2000 Electric Way, Christiansburg, Virginia 24073, (703) 382-6111 • Fax: (703) 382-1526 • Telex: 23-7407719
 Hubbell Canada, Inc., 870 Brock Road South, Pickering, Ontario L1W1Z8, (905) 839-1138 • Fax: (905) 839-9106 • Telex: 06-981288
 Hubbell, Ltd., Ronald Close, Woburn Rd. Ind. Estate, Kempston, Bedford, England MK42-7SH • Tel: (44 234) 855444 • Telex: 826065

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HUBBELL LIGHTING PHOTOMETRIC REPORT

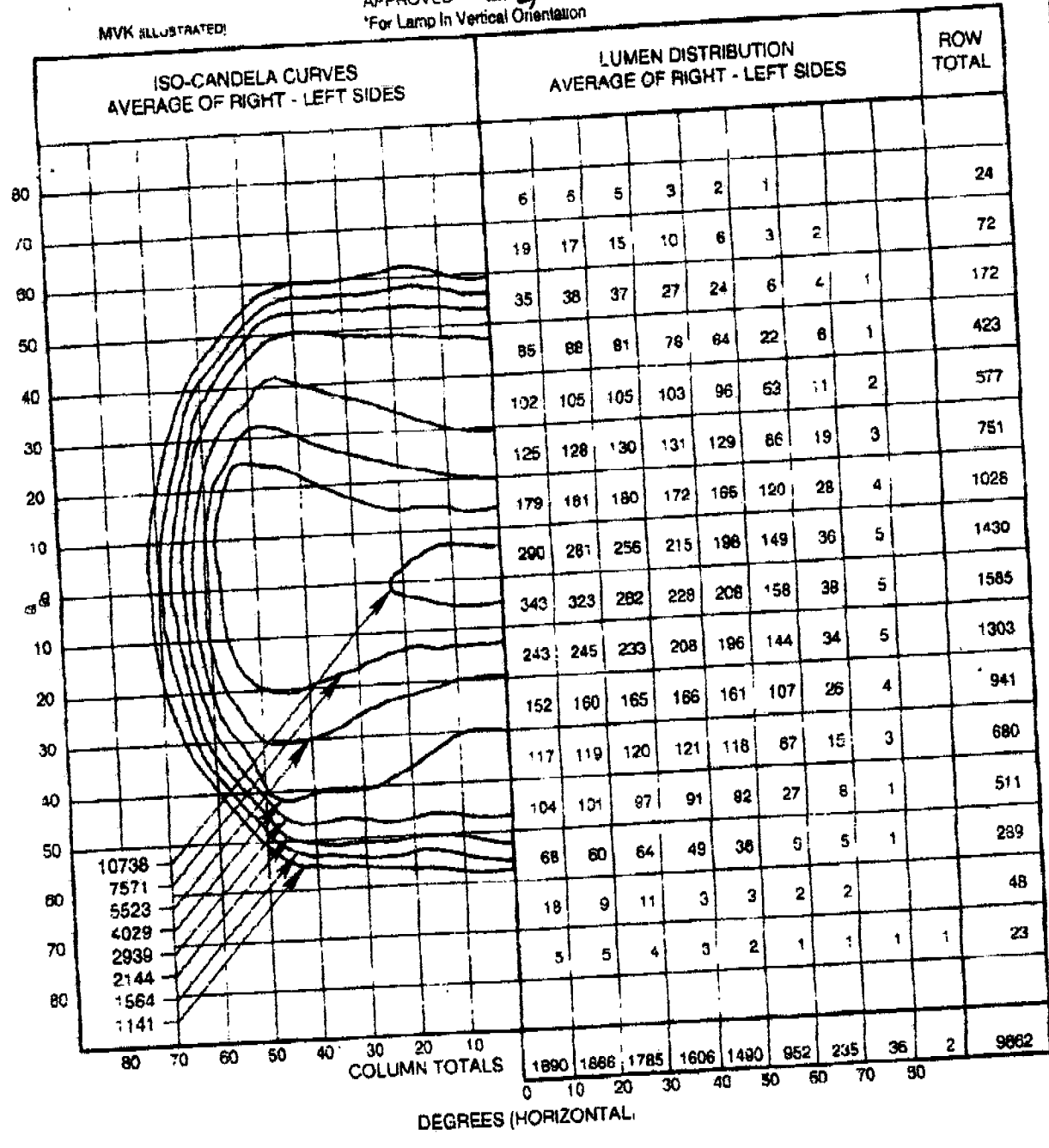
MVM-0400H-X6X
MVK-0400H-X6X
MVW-0400H-X6X



TEST NO. **HP-00738**
SOURCE **METAL HALIDE**
LAMP **M-400**
WATTS **400**
LCL **7"**
LUMENS **34,000***
APPROVED 
*For Lamp In Vertical Orientation

IES/NEMA TYPE **7MX6V**
BEAM SPREAD HORIZONTAL **146°**
BEAM SPREAD VERTICAL **119°**
BEAM EFFICIENCY **56.3%**
BEAM LUMENS **19126***
MAX. BEAM CANDLEPOWER **11411***
AVG. MAX. CANDLEPOWER **10373***

MVK ILLUSTRATED!



TESTED TO CURRENT IES AND NEMA STANDARDS UNDER STABILIZED LABORATORY CONDITIONS. VARIOUS OPERATING FACTORS CAN CAUSE DIFFERENCES BETWEEN LAB DATA AND ACTUAL FIELD MEASUREMENTS.

Hubbell Lighting Division, 2000 Electric Way, Christiansburg, Virginia 24073, (703) 382-6111 • Fax: (703) 382-1526 • Telex: 23-7407719
Hubbell Canada, Inc., 870 Brock Road S., Box 100, Pickering, Ontario L1V2R3, (416) 839-1138 • Fax: (416) 427-2582 • Telex: 06-981288
Harvey Hubbell, Ltd., Ronald Close, Woburn Rd. Ind. Estate, Kempston, Bedford, England MK42-7SH • Tel (44 234) 855444 • Telex: 826065
June 1991
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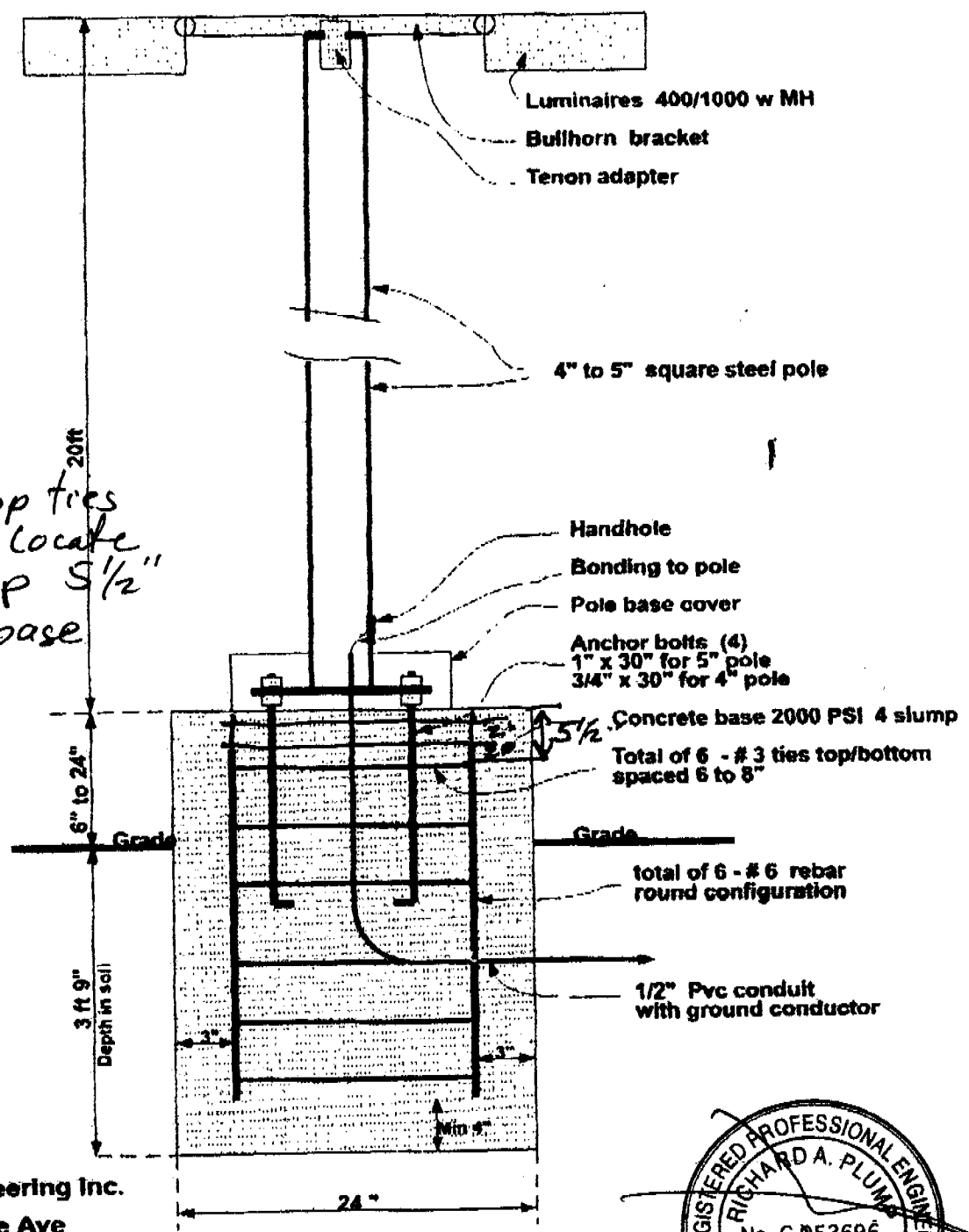
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5a V

JET AGE M.A.C.
5428 Bushnell
Riverside, CA. 92505
(909) 687-7826

Luminaire Configurations

- 1.
- 2.
- 3.
- 4.



③ #3 bar hoop ties @ 2" O.C. - locate within top 5 1/2" of pole base

PLUMP Engineering Inc.
13210 Florence Ave
Santa Fe Springs, CA.
(562) 777-0983



PLUMP ENGINEERING, INC
 SUITE 210
 NEWPORT BEACH, CA 92660
 949-474-2140, FAX 949-474-4240
 PLUMPENG@EARTHLINK.NET

Title : WEINERSCHNITZEL
 Dsgnr: RP
 Description :

Date: Job # 990313

Scope :

Pole Embedment in Soil

Page 1

Rev: 510001

Description LIGHT POLE FOUNDATION - ONE TO THREE FIXTURES

General Information

Allow Passive	150.00 psf	Applied Loads...	
Max Passive	1,500.00 psf	Point Load	30.00 lbs
Load duration factor	1.000	distance from base	19.500 ft
Pole is Round		Distributed Load	5.00 #/ft
Diameter	24.000 in	distance to top	19.500 ft
No Surface Restraint		distance to bottom	0.000 ft

Summary

Moments @ Surface...			
Point load	585.00 ft-#	Total Moment	1,535.63 ft-#
Distributed load	950.63	Total Lateral	127.50 lbs
Without Surface Restraint...		With Surface Restraint...	
Required Depth	3.654 ft	Req'd Depth	0.000 ft
Press @ 1/3 Embed...		Pressure @ Base...	
Actual	187.50 psf	Actual	0.00 psf
Allowable	182.70 psf	Allowable	0.00 psf
		Surface Restraint Force	0.00 lbs

GENERAL REQUIREMENTS:

1. NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE ENGINEER OR ARCHITECT.
2. ALL DIMENSIONS CONTROLLED BY EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE.
3. CONSTRUCTIONS AND MATERIALS SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH ALL THE REQUIREMENTS OF ALL LEGALLY CONSTITUTED PUBLIC AUTHORITIES HAVING JURISDICTION, INCLUDING ALL COUNTY AND LOCAL ORDINANCES, AND THE SAFETY ORDERS OF THE STATE INDUSTRIAL ACCIDENT COMMISSION, OSHA.
4. GENERAL CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL GRADES, DIMENSIONS, AND CONDITIONS PRIOR TO BIDDING AND COMMENCING CONSTRUCTION.
5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL WORK, INCLUDING THAT OF ALL SUB-TRADES.
6. GENERAL CONTRACTOR SHALL NOTIFY ENGINEER AND ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS.
7. ALL WORK PERFORMED SHALL CONFORM WITH THE REQUIREMENTS OF THE UNIFORM BUILDING CODE (LATEST ADOPTED EDITION) OR OTHER APPLICABLE GOVERNING CODES AND BUILDING ORDINANCES.
8. ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS ACCUMULATED AS A RESULT OF THEIR OPERATION. ALL SCRAP, DEBRIS, AND OTHER EXCESS MATERIAL SHALL BE REMOVED FROM THE BUILDING SITE.
9. THE OWNER SHALL HAVE THE RIGHT TO MAKE CERTAIN CHANGES IN THE WORK AND THE CONTRACT AMOUNT SHALL BE ADJUSTED ACCORDINGLY. HOWEVER, THE GENERAL CONTRACTOR SHALL NOT PROCEED WITH ANY CHANGES WITHOUT THE WRITTEN APPROVAL OF THE OWNER.
10. ALL MATERIALS SHALL BE FURNISHED AS SHOWN HEREIN UNLESS EQUAL ALTERNATES ARE APPROVED IN WRITING BY THE OWNER.
11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND PROVIDING BRACING DURING CONSTRUCTION AND/OR ERECTION TO SUPPORT ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED.
12. SEE ARCHITECT'S SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, IF APPLICABLE.



ENGINEERING INC.

STRUCTURAL CONSULTANTS

CUSTOMER:

TITLE:

FREQ:

DATE:

SHEET:

GENERAL REQUIREMENTS:

- 13. ANY REFERENCE TO THE WORDS APPROVE, APPROVED, OR APPROVAL IN THESE DOCUMENTS SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUB-CONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.
- 14. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO BRACING AND SHORING. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT OR ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT OR ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT OR ENGINEER, WHETHER OF MATERIAL OR WORK, AND FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING COMPLIANCE WITH CONTRACT DOCUMENTS, DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- 15. THE SHOP DRAWING REVIEW PROCESS BY THIS ENGINEER WILL ONLY COMMENCE AFTER THE SUBMITTED FABRICATION OR SHOP DRAWING HAVE BEEN AS FOLLOWS:
 - A. INITIALLY REVIEWED AND ACCEPTED AS CONFORMING WITH THE STRUCTURAL CONSTRUCTION DRAWINGS BY THE RESPONSIBLE SUPERVISOR AND DRAWING CHECKER WITH THEIR SIGNATURES.
 - B. APPROVED AND ACCEPTED WITH A STAMP FROM THE GENERAL CONTRACTOR AS CONFORMING TO THE CONSTRUCTION DOCUMENTS.
- 16. STRUCTURAL OBSERVATION WILL BE PERFORMED BY AN ENGINEER OR ARCHITECT EMPLOYED BY THE OWNER. THIS DESIGNATED INDIVIDUAL SHALL CONFORM TO THE REQUIREMENTS AS STATED IN SECTION 1702.

PLUMP ENGINEERING, INC.

Structural Consultants

20101 S.W. Birch St. Suite 210

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FILE: _____ DATE: _____
BY: _____ SHEET: _____

CONCRETE:

ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE ACI CODE AND SPECIFICATIONS (ACI 318-89, ACI 301-89). THE FOLLOWING NOTES ARE PROVIDED FOR USE AS A GUIDE TO ALL REQUIREMENTS.

1. MATERIALS FOR CONCRETE:

A. CEMENT SHALL CONFORM TO THE APPROPRIATE SPECIFICATION LISTED BELOW:

1. PORTLAND CEMENT, "SPECIFICATION FOR PORTLAND CEMENT" (ASTM C-150).
2. PORTLAND BLAST-FURNACE SLAG CEMENT OR PORTLAND-POZZOLAN CEMENT, "SPECIFICATION FOR BLENDED
3. UNLESS OTHERWISE PERMITTED OR REQUIRED, CEMENT SHALL BE TYPE I OR TYPE II, ASTM C-150.
4. THE CEMENT USED IN THE WORK SHALL CORRESPOND TO THAT UPON WHICH THE SELECTION OF CONCRETE PROPORTIONS WAS BASED.

B. ADMIXTURES SHALL NOT BE USED WITHOUT WRITTEN CONSENT OF THE ENGINEER.

C. WATER:

1. MIXING WATER FOR CONCRETE SHALL CONFORM TO THE REQUIREMENTS FOR WATER SPECIFIED IN ASTM C-94.

D. AGGREGATES:

1. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO "SPECIFICATION FOR CONCRETE AGGREGATES" (ASTM C-33).
2. FINE AND COARSE AGGREGATES SHALL BE REGARDED AS SEPARATE INGREDIENTS. EACH SIZE OF COARSE AGGREGATE, AS WELL AS THE COMBINATION OF SIZES WHEN TWO OR MORE ARE USED, SHALL CONFORM TO THE APPROPRIATE GRADING REQUIREMENTS OF THE APPLICABLE ASTM SPECIFICATIONS.

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2. PROPORTIONING:

A. GENERAL:

CONCRETE FOR ALL PARTS OF THE WORK SHALL BE OF THE SPECIFIED QUALITY CAPABLE OF BEING PLACED WITHOUT EXCESSIVE SEGREGATION AND, WHEN HARDENED, OF DEVELOPING ALL CHARACTERISTICS REQUIRED BY THESE SPECIFICATIONS AND THE CONTRACT DOCUMENTS.

B. STRENGTH:

THE SPECIFIED COMPRESSIVE STRENGTH OF THE CONCRETE (f'_c) FOR EACH PORTION OF THE STRUCTURE SHALL BE AS DESIGNATED BELOW. STRENGTH REQUIREMENTS SHALL BE BASED ON 28-DAY COMPRESSIVE STRENGTH, UNLESS A DIFFERENT TEST AGE IS SPECIFIED.

SLAB-ON-GRADE	2000 PSI
CONT. FTGS. & PADS	2000 PSI
GRADE BEAMS	2500 PSI
DRYPACK OR GROUT FOR BASE PLATES	4000 PSI

C. SLUMP:

UNLESS OTHERWISE PERMITTED OR SPECIFIED, THE CONCRETE SHALL BE PROPORTIONED AND PRODUCED TO HAVE A SLUMP OF 4 IN. OR LESS IF CONSOLIDATION IS TO BE BY VIBRATION, 5 IN. OR LESS IF CONSOLIDATION IS TO BE BY METHODS OTHER THAN VIBRATIONS. W/C RATIO IS TO BE 0.6 MAX

D. MAXIMUM SIZE OF COARSE AGGREGATE:

THE NOMINAL MAXIMUM SIZE OF THE AGGREGATE SHALL NOT BE MORE THAN ONE-FIFTH OF THE NARROWEST DIMENSION BETWEEN SIDES OF THE FORMS, ONE-THIRD OF THE DEPTHS OF SLABS, NOR THREE-FOURTHS OF THE MINIMUM CLEAR SPACING BETWEEN REINFORCING BARS. THESE LIMITATIONS MAY BE WAIVED IF, IN THE JUDGMENT OF THE ENGINEER, WORKABILITY AND METHODS OF CONSOLIDATION ARE SUCH THAT THE CONCRETE CAN BE PLACED WITHOUT HONEYCOMB OR VOIDS.

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E. ADMIXTURES:

IF PERMITTED, ADMIXTURES USED SHALL BE SUBJECT TO THE LIMITATIONS BELOW:

1. THE AMOUNT OF CALCIUM CHLORIDE SHALL NOT EXCEED 2 PERCENT BY WEIGHT OF CEMENT. THE AMOUNT OF CALCIUM CHLORIDE SHALL BE DETERMINED BY THE METHOD DESCRIBED IN AASHTO T260-78.
2. FOR PRESTRESSED CONCRETE AND FOR ALL CONCRETE WHICH WILL CONTAIN EMBEDMENTS OF OR REMAIN IN CONTACT WITH ALUMINUM OR GALVANIZED METAL, IT SHALL BE DEMONSTRATED BY TEST THAT THE MIXING WATER OF THE CONCRETE, INCLUDING THAT CONTRIBUTED BY THE AGGREGATES AND ANY ADMIXTURES USED, WILL NOT CONTAIN A DELETERIOUS AMOUNT OF CHLORIDE ION, UNLESS PROTECTIVE MEASURES ACCEPTABLE TO THE ENGINEER ARE PROVIDED.
3. ALL ADMIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS EXCEPT AS OTHERWISE SPECIFIED HEREIN.

F. SELECTION OF PROPORTIONS:

THE PROPORTIONS OF INGREDIENTS SHALL BE SUCH AS TO PRODUCE A MIXTURE WHICH WILL WORK READILY INTO THE CORNERS AND ANGLES OF THE FORMS AND AROUND REINFORCEMENT BY THE METHODS OF PLACING AND CONSOLIDATION EMPLOYED ON THE WORK, BUT WITHOUT PERMITTING THE MATERIALS TO SEGREGATE OR EXCESSIVE FREE WATER TO COLLECT ON THE SURFACE.

3. CONCRETE FLOOR SLABS ON GRADE SHALL BE 4" THICK (UNLESS OTHERWISE NOTED). SLABS WHICH ARE TO RECEIVE RESILIENT FLOORING CARPET OR DESIGNATED TO REMAIN EXPOSED SHALL BE TROWELLED SMOOTH. CONTRACTOR SHALL PROVIDE CONTROL JOINTS WITH A MAXIMUM AREA BETWEEN JOINTS OF 400 S.F., UNLESS OTHERWISE NOTED. MAXIMUM RATIO OF LONG SIDE TO SHORT SIDE SHALL BE 1-1/2 : 1.
4. ALL REINFORCING STEEL, WIRE MESH, ANCHOR BOLTS, HOLDDOWN ANCHORS AND OTHER INSERTS SHALL BE SECURED IN POSITION AND INSPECTED BY THE BUILDING OFFICIAL PRIOR TO PLACING OF CONCRETE.

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REINFORCING STEEL:

1. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60, UNLESS OTHERWISE NOTED. ALL REINFORCING SHALL BE FROM IDENTIFIED STOCK WITH MILL ANALYSIS SUPPLIED. ALL DOWELS, #4 OR SMALLER, MAY CONFORM TO ASTM A-615 GRADE 40.
2. DOWELS SHALL BE PROVIDED AT POUR AND CONSTRUCTION JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS THE REINFORCING SHOWN FOR THE SUBSEQUENT CONSTRUCTION, UNLESS OTHERWISE NOTED.
3. REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVER:
 - A. CONCRETE CAST AGAINST EARTH. 3"
 - B. SLAB ON GRADE CENTER (FOR ONE LAYER)
4. WHEN REQUIRED WELDING OF REINFORCING STEEL SHALL CONFORM TO "STRUCTURAL WELDING CODE - REINFORCING STEEL" (AWS D1 - 4-79). THE MILL ANALYSIS SHALL INCLUDE THE CARBON EQUIVALENCE TO ESTABLISH WELDABILITY. NO WELDING SHALL BE DONE AT THE BEND IN A BAR. WELDING OF CROSS BARS (TACK WELDING) SHALL NOT BE PERMITTED EXCEPT AS AUTHORIZED OR DIRECTED BY THE ENGINEER.
5. ALL CONTINUOUS BARS OR DOWELS OF #3 THRU #6 IN SIZE SHALL LAP 40 BAR DIAMETERS IN CONCRETE AND MASONRY, UNLESS OTHERWISE NOTED. FOR BARS LARGER THAN #6, SEE PLAN FOR SPLICE DETAILS. WIRE MESH SHALL LAP MINIMUM OF 12".
6. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BONDING. BENDS SHALL BE MADE COLD.
7. CONTINUOUS INSPECTION OF CONCRETE SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OF REINFORCING STEEL.
8. ALL REINFORCING STEEL LAPS OR SPLICES SHALL BE AS INDICATED ON PLANS. WHERE LAP OR SPLICE LOCATIONS ARE NOT SPECIFIED, LAPS OR SPLICES SHALL BE WELL STAGGERED.
9. ALL FIELD WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706 GRADE 60. WELDING SHALL BE PERFORMED BY WELDING DEPARTMENT APPROVED CERTIFIED WELDERS USING E70XX ELECTRODES. ALL FIELD WELDING SHALL BE CONTINUOUSLY INSPECTED BY A REGISTERED DEPUTY INSPECTOR AT THE EXPENSE OF THE GENERAL CONTRACTOR UNLESS A PRIOR AGREEMENT IS NEGOTIATED WITH THE OWNER.

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FOUNDATION:

1. EXCAVATE FOR FOUNDATIONS TO THE DEPTHS SHOWN ON THE DRAWINGS BELOW UNDISTURBED SOIL OR COMPACTED EARTH, 18" MINIMUM UNLESS OTHERWISE NOTED. SEE SOILS REPORT FOR PAD AND FOOTING COMPACTION REQUIREMENTS, IF APPLICABLE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FOR FORMING AND PLACEMENT OF CONCRETE.
3. CARE SHALL BE TAKEN NOT TO OVEREXCAVATE FOUNDATION AT LOWER ELEVATION. PREVENT DISTURBING SOILS AROUND FOOTINGS AT HIGHER ELEVATION.
4. FILLING AND BACKFILLING SHALL BE INSPECTED AND APPROVED BY THE PROJECT SOILS ENGINEER PRIOR TO FORMING.
5. ALL FILL AND BACKFILL MATERIAL SHALL BE APPROVED BY THE PROJECT SOILS ENGINEER.
6. FILLING AND BACKFILLING SHALL BE COMPACTED TO A MINIMUM OF 90% OR MORE IF SO NOTED, OF MAXIMUM DENSITY IN ACCORDANCE WITH THE SOILS REPORT AND ASTM TEST METHOD D-1557-78. FLOODING OF BACKFILL IS NOT PERMITTED.
7. WATER SHALL BE REMOVED FROM FOUNDATION EXCAVATION PRIOR TO PLACING OF CONCRETE. CARE SHALL BE TAKEN SO AS NOT TO DRY OUT UNDERLYING NATURAL SOILS.
8. A 6 MIL (MINIMUM) PLASTIC MEMBRANE SHALL BE PLACED ON THE PREPARED PAD SUBGRADE IN ALL AREAS AS SHOWN ON THE DRAWINGS WHERE FLOOR COVERINGS ARE TO BE INSTALLED, UNLESS OTHERWISE NOTED. PLACE 2" OF CLEAN SAND OVER MEMBRANE. SEE SOILS REPORT FOR ADDITIONAL REQUIREMENTS.
9. GENERAL AND CONCRETE SUB-CONTRACTOR SHALL REVIEW AND FAMILIARIZE THEMSELVES WITH THE SOILS REPORT AND THE CONTENTS OF SOILS REPORT SHALL BE MADE A PART OF THESE DRAWINGS.
DESIGN SOILS BEARING VALUE = 1000 PSF. (CONT. FTGS.)
10. THE SOILS REPORT IN ITS ENTIRETY SHALL BE INCLUDED AS PART OF THE CONTRACT DOCUMENTS. FOR RECOMMENDED SOIL BEARING PRESSURE, FOUNDATION MATERIAL AND SITE GRADING, SEE SOILS AND GEOLOGICAL REPORT BY: