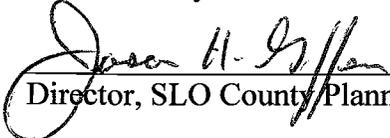


Condition 50	Lighting Plan
<p>A final lighting plan shall be prepared for the treatment and disposal facilities in accordance with Estero Area Plan AES-5. The lighting plan shall meet County design standards. This shall include proper shielding, proper orientation, and applicable height standards. All lighting fixtures shall be shielded so that neither the lamp nor the related reflector interior surface is visible from adjacent properties or public areas. Light hoods shall be dark-colored. Lighting associated with all project components shall be the minimum needed for plant/pump station operations which require lighting for operations and/or during emergency situations.</p>	
<p>Evidence of compliance: AES-5 is a mitigation measure from the <i>Final Environmental Impact Report for the Los Osos Community Services District Wastewater Facilities Project</i>, certified on March 1, 2001. This measure is incorporated into the Estero Area Plan as an environmental mitigation measure for a wastewater treatment plant and related facilities (Estero Area Plan, Chapter 7, Section VI., Subsection C.9.) and states: <i>A final lighting plan shall be prepared for the treatment facility. The lighting plan shall meet County design standards. This shall include proper shielding, proper orientation and applicable height standards.</i></p> <p>Collection System:</p> <p>Pump station generator buildings will be outfitted with “nighttime friendly” fixtures over the doorways. No other lighting will be associated with the collection system. See the attached final lighting plan. The contractor will be required to install the lights specified in the final lighting plan or an engineer-approved equal.</p> <p>The final lighting plan includes Sheet PS-E-002 – Lighting Fixture Schedule – see Note 1 which states the language of the permit condition.</p> <p>A final lighting plan associated with the treatment plant facility will be prepared and submitted to the Planning Director prior to initiation of construction at that facility.</p>	

Collection System Condition Satisfied



Director, SLO County Planning

MAY 3, 2012

Date

Treatment Plant Condition Satisfied

Director, SLO County Planning

Date

LOS OSOS WASTEWATER PROJECT

FINAL LIGHTING PLAN

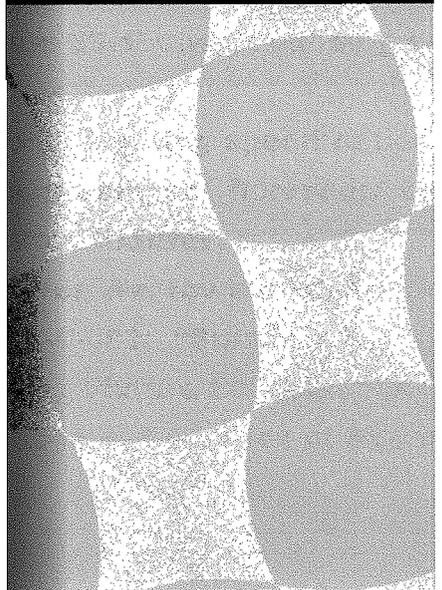
**PREPARED BY THE DEPARTMENT
OF PUBLIC WORKS**

May 3, 2012

This plan has been prepared for the purpose of demonstrating compliance with Condition of Approval #50, as required by Coastal Development Permit DRC2008-00103.

Exhibits:

- 1. Lithonia Lighting specification sheet MRW-M-S for outdoor metal halide 50-175 watt or high pressure sodium 35-150 watt building and wall mounted fixtures.**
- 2. Lithonia Lighting specification sheet MRW-CF for outdoor compact florescent building and wall-mounted fixtures.**
- 3. Los Osos Wastewater Collection System plan sheet no. PS-E-002: "Standard Electrical Symbols - 2 & Lighting Fixture Schedule" (Note 1 states the language of Condition of Approval #50.**



FEATURES & SPECIFICATIONS

INTENDED USE — For building and wall-mounted applications.

CONSTRUCTION — Rugged, die-cast, single piece aluminum housing. Die-cast doorframe has a 1/8" thick tempered glass lens. Doorframe is fully gasketed with one-piece solid silicone. U.S. Patent No. D565232.

Finish: Standard finish is textured dark bronze (DDBT) corrosion-resistant polyester powder finish. Additional architectural colors are available. Striping is also available.

OPTICS — Segmented reflectors provide superior uniformity and control. Reflectors are interchangeable. Three full cutoff distributions available: FT (forward throw), MD (medium throw) and WT (wide throw).

ELECTRICAL — Ballast: 50W-150W utilizes a high reactance, high power factor ballast. Metal halide 150W and below are standard with pulse-start technology. 355 utilizes a reactance high power factor ballast. 175W utilizes a constant-wattage auto transformer ballast. Ballasts are 100% factory tested. CSA, NOM or INTL required for probe start shipments outside of the US for 175M. Not available 175M SCWA. Ceramic metal halide lamps are recommended for use in applications where superior color rendition, lumen maintenance and longer lamp life are desired.

Socket: Porcelain, medium-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V 4KV pulse rated.

INSTALLATION — Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with every installation.

LISTING — UL Listed to U.S. and Canadian safety standards. NOM Certified (see Options). UL listed suitable for wet locations (damp location listed in lens up orientation). WLU option offers wet location listing in up orientation (see Options). IP65 rated. 25°C ambient. ELED: U.S. Patent No. 7,737,640.

NOTE: Specifications subject to change without notice.

Catalog Number
Notes
Type



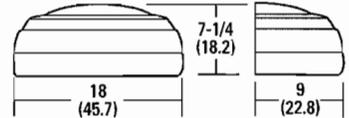
Wall-Mounted Lighting

MRW



Specifications

- Length: 18 (45.72)
- Depth: 9 (22.86)
- Overall Height: 7.25 (18.42)
- *Weight: 35lbs (15.88kg)
- *Weight as configured in example below.



All dimensions are inches (centimeters) unless otherwise specified.

METAL HALIDE: 50-175W

HIGH PRESSURE SODIUM: 35-150W

ORDERING INFORMATION For shortest lead times, configure product using **bolded options**.

Example: MRW 100M FT TB LPI

MRW	Wattage		Distribution			Voltage		Ballast		Mounting	
MRW	High pressure sodium	Metal halide	FT	MD	WT	120	347	(blank)	Magnetic	(blank)	Surface mount
	355 ¹ 70S 100S	50M 100M 150M	Forward throw	Medium throw (coated lamp standard)	Wide throw	208 ²	TB ⁴	CWI	Contant wattage isolated	Shipped separately ⁷	
	50S 150S	70M 175M ²				240 ³	23050HZ ²	Pulse Start		BBW	Surface-mounted back box
		Ceramic metal halide				277		SCWA	Super CWA pulse-start ballast ⁶	UT5	Uptilt 5°
		50MHC 70MHC 150MHC									
		100MHC									

Options		Finish ¹⁷		Lamp ¹⁹	
Shipped installed in fixture		(blank)	Dark bronze, textured	LPI	Lamp included
SF Single fuse (120, 277, 347V) ⁸	ELED Emergency LED secondary source battery pack with time delay (-4°F min. operating temp) ¹⁰	DDB	Dark bronze	L/LP	Less lamp
DF Double fuse (208, 240, 480V) ⁸	2ELED Emergency LED secondary source (two modules) battery pack with time delay (-4°F min. operating temp) ¹⁰	DSST	Sandstone, textured		
DC12 Emergency circuit 12V (35W lamp included) ⁹	DFL Diffusing lens	DNAT	Natural aluminum, textured		
2DC12 Emergency circuit 12V (two 35W lamps included) ⁹	EC Emergency circuit ^{11,12}				
DC2012 Emergency circuit 12V (20W lamp included) ⁹	IBS Internal backlight shield ¹³				
2DC2012 Emergency circuit 12V (two 20W lamps included) ⁹	PE Photoelectric cell - button type ^{14,15}				
	QRS Quartz restrike system ^{12,16}				
	WLU Wet location door for up orientation				
	CSA CSA Certified				
	NOM NOM Certified ⁵				
	INTL International shipment for 175M				
	Shipped separately ¹⁵				
	WG Wire guard				
	VG Vandal guard				



Typical color spec; a dark finish

Typical lighting specs would include this specification or approved equal

Notes:

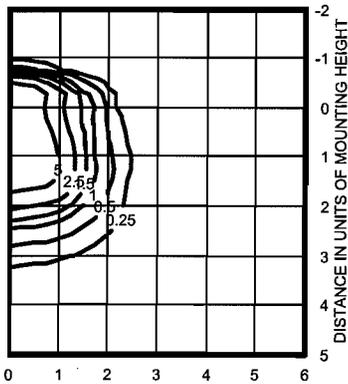
- 120V, NPF only.
- These wattages do not comply with California Title 20 regulations.
- Must specify CWI for use in Canada.
- Optional multi-tap ballast (120, 208, 240, 277V); (120, 277, 347V in Canada; ships as 120V/347V).
- Consult factory for available wattages.
- Available with 150M or 150MHC only.
- May be ordered as an accessory with prefix "WS". Must specify finish.
- Not available with TB.
- Not available with ELED, EC, SF, DF or QRS.

- Maximum wattage 100M or 70S. Must specify 120 or 277. Not available with QRS, DC or EC.
- Not available with ELED, QRS or DCs.
- Maximum allowable wattage lamp included.
- Not available with Medium Throw (MD, MDU, MDUS) distributions.
- Not available with TB or 480V.
- Must be ordered with fixture; cannot be field installed.
- Not available with ELED, EC or DCs.
- See www.lithonia.com/archcolors for additional color options.
- Black finish only.
- Must be specified. L/LP not available with MHC.

MRW Metal Halide, High Pressure Sodium Building Mounted

MRW 150MHC FT LTL11336P

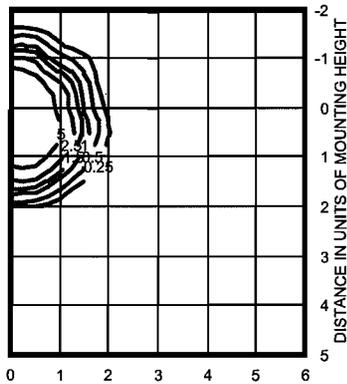
ISOILLUMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation Footcandle values based on 12' mounting height, 14000 rated lumens.
Luminaire Efficiency: 55.6%

MRW 150MHC MD LTL11335P

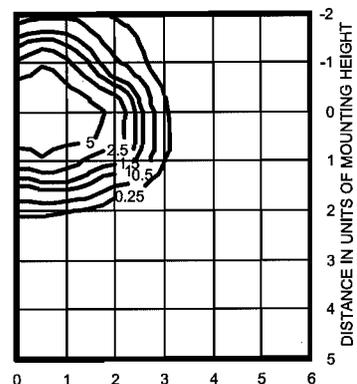
ISOILLUMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation Footcandle values based on 12' mounting height, 12500 rated lumens.
Luminaire Efficiency: 55.3%

MRW 150MHC WT LTL11337P

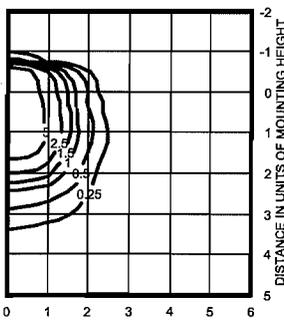
ISOILLUMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation Footcandle values based on 12' mounting height, 14000 rated lumens.
Luminaire Efficiency: 68.1%

MRW 150S FT TEST NO: LTL11546

ISOILLUMINANCE PLOT (Footcandle)



150W lamp, horizontal lamp orientation Footcandle values based on 12' mounting height, 15800 rated lumens.
Luminaire Efficiency: 51.6%

Emergency Option Lamp Compatibility

Lamp Options (# lamps/wattages)	DC12	2DC12	DC2012	2DC2012	EC	ELED	2ELED
35S	■	■	■	■	■	■	■
50S	■	■	■	■	■	■	■
70S	■	■	■	■	■	■	■
100S	■	■	■	■	■	■	■
150S	■	■	■	■	■	■	■
50M	■	■	■	■	■	■	■
70M	■	■	■	■	■	■	■
100M	■	■	■	■	■	■	■
150M	■	■	■	■	■	■	■
175M	■	■	■	■	■	■	■

Lamp	Initial Lumens	Mounting Height			
		10'	12'	14'	16'
Metal Halide					
50W MH	3,900	0.43	0.30	0.22	0.17
70W MH	5,500	0.62	0.43	0.31	0.24
100W MH	8,500	0.95	0.66	0.48	0.37
150W MH	12,500	1.41	0.98	0.72	0.55
175W MH	12,800	1.44	1.0	0.73	0.56
High Pressure Sodium					
35W HPS	2,250	0.26	0.18	0.13	0.10
50W HPS	4,000	0.45	0.31	0.23	0.17
70W HPS	6,400	0.72	0.50	0.37	0.28
100W HPS	9,500	1.07	0.74	0.54	0.41
150W HPS	16,000	1.80	1.25	0.91	0.70



MRW-M-S

FEATURES & SPECIFICATIONS

INTENDED USE — For building and wall-mounted applications.

CONSTRUCTION — Rugged, die-cast, single piece aluminum housing. Die-cast doorframe has a 1/8" thick tempered glass lens. Doorframe is fully gasketed with one-piece solid silicone. U.S. Patent No. D565232.

Finish: Standard finish is textured dark bronze (DDBT) corrosion-resistant polyester powder finish. Additional architectural colors are available. Striping is also available.

OPTICS — Segmented reflectors for superior uniformity and control. Medium throw (MD) full cutoff distribution available.

ELECTRICAL — Ballast: Class P, multi-volt electronic, high power factor ballast; <10% THD with starting temperature of 0°F (-18°C).

Socket: High temperature thermoplastic with an integral lamp retention clip. Quick-disconnect plug easily disconnects reflector from ballast.

INSTALLATION — Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with every installation.

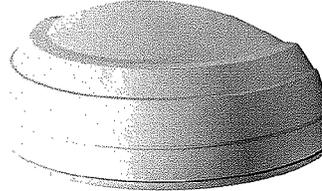
LISTINGS — UL Listed to U.S. and Canadian safety standards. NOM Certified (see Options). UL listed suitable for wet locations (damp location listed in lens up orientation). WLU option offers wet location listing in up orientation (see Options). IP65 rated. 25°C ambient. ELED: U.S. Patent No. 7,737,640.

Note: Specifications subject to change without notice.

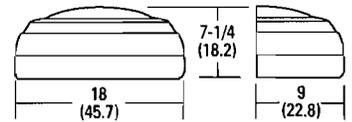
Catalog Number
Notes
Type



MRW



COMPACT FLUORESCENT: 26DTT-2/42TRT



Specifications

Length: 18 (45.72)

Depth: 9 (22.86)

Overall Height: 7.25 (18.42)

*Weight: 35lbs (15.88kg)

*Weight as configured in example below.

All dimensions are inches (centimeters) unless otherwise specified.

Typical lighting specs would include this specification or approved equal



ORDERING INFORMATION For shortest lead times, configure product using **bolded options**.

Example: MRW 42TRT MD MVOLT LPI

MRW Series	Wattage	Distribution	Voltage	Ballast	Mounting
MRW	26DTT 32TRT 2/26DTT 2/32TRT 26TRT 42TRT 2/26TRT 2/42TRT	MD Medium throw	120 277 347 MVOLT ¹	(blank) Electronic, 0°F	(blank) Surface mount <i>Shipped separately</i> ² BBW Surface-mounted back box UT5 Uptilt 5°

Options			Finish ¹⁴			Lamp ¹⁵	
Shipped installed in fixture			(blank) Dark bronze, textured	DWHG	White, textured	LPI	Lamp included
DC12	Emergency circuit 12V (35W lamp inc.) ³	ELDWRPS Fixture wired for PS1400 or PSDL3 remote battery pack (battery pack not included; 32°F min. operating temp.) ^{5,7}	DDB	DBLB	Black, textured	L/LP	Less lamp
2DC12	Emergency circuit 12V (two 35W lamps inc.) ³	ELED Emergency LED secondary source battery pack with time delay (-4°F min. operating temp.) ^{8,9}	DSST	CR	Enhanced corrosion-resistant finish		
DC2012	Emergency circuit 12V (20W lamp inc.) ³	2ELED Emergency LED secondary source (two modules) battery pack with time delay (-4°F min. operating temp.) ^{8,9}	DNAT	CRT	Non-stick protective coating ¹⁵		
2DC2012	Emergency circuit 12V (two 20W lamps included) ³	GMF Internal slow-blow fusing ^{5,10}					
DFL	Diffusing lens						
EC	Emergency circuit ⁴						
ELDW	Emergency battery pack (32°F min. operating temp.) ^{5,6}						
ELDWR	Fixture wired for Bodine® B30 remote battery pack (battery pack not included; 32°F min. operating temp.) ⁵						

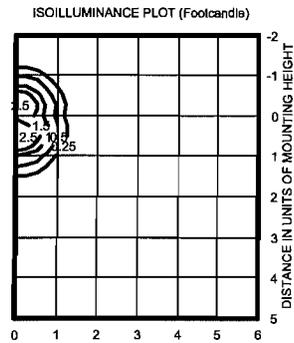
Notes:

- Multi-volt electronic ballast capable of operating on any line voltage from 120-277V.
- May be ordered as an accessory with prefix "WS." Must specify finish.
- Not available with GMF, EC, ELDWs.
- Maximum allowable wattage lamp included. Not available with ELDWs or DCs.
- Not available with MVOLT; must specify voltage.
- Not available with 2/32TRT or 2/42TRT. ELDW does not satisfy North Carolina code criteria.
- Not available with 2/42TRT.
- Not available with EC, DCs OR ELDWs.
- Must specify 120V or 277V.
- Not available with DC options.
- Not available with MVOLT.
- Must be ordered with fixture; cannot be field installed.
- Consult factory for available wattages.
- See www.lithonia.com/archcolors for additional color options.
- Black finish only.
- Must be specified (35K lamp with LPI).

Typical color spec; a dark finish

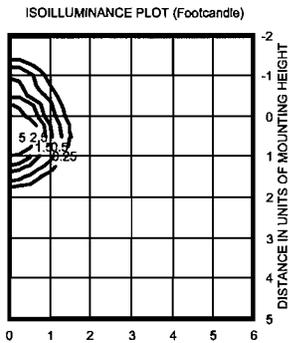
MRW Compact Fluorescent Building Mounted

MRW 2/26DTT MD TEST NO: LTL11984



26W lamp, horizontal lamp orientation
Footcandle values based on 12'
mounting height, 1800 rated lumens.
Luminaire Efficiency: 25.3%

MRW 42TRT MD TEST NO: LTL11979



42W lamp, horizontal lamp orientation
Footcandle values based on 12'
mounting height, 3200 rated lumens.
Luminaire Efficiency: 48.5%

Emergency Option Lamp Compatibility

Lamp Options (# lamps/wattages)	DC12	2DC12	DC2012	2DC2012	EC	ELED	2ELED	ELDWC	ELDW	ELDWR	ELDWRPS
26DTT (1 lamp)	■	■	■	■	■	■	■	■	■	■	■
2/26DTT	■	■	■	■	■	■	■	■	■	■	■
26TRT (1 lamp)	■	■	■	■	■	■	■	■	■	■	■
2/26TRT	■	■	■	■	■	■	■	■	■	■	■
32TRT (1 lamp)	■	■	■	■	■	■	■	■	■	■	■
2/32TRT	■	■	■	■	■	■	■	■	■	■	■
42TRT (1 lamp)	■	■	■	■	■	■	■	■	■	■	■
2/42TRT	■	■	■	■	■	■	■	■	■	■	■

Lamp	Initial Lumens	Mounting Height			
		10'	12'	14'	16'
Compact Fluorescent					
42W TRT	3,200	0.72	0.5	0.37	0.28
(2) 42W TRT	6,400	1.44	1.0	0.73	0.56

ELECTRICAL SYMBOLS

SCHEMATIC DIAGRAM

LIGHTING FIXTURE SCHEDULE (NOTE 1)

TYPE	LAMPS NO/WATTS	VOLTS	DESCRIPTION
A	2 /32	120	4' FLUORESCENT FIXTURE ENCLOSED AND GASKETED FIBER GLASS HOUSING, ACRYLIC LENS STEEL CHANNEL, ANODIZED ALUMINUM REFLECTOR, ELECTRONIC BALLAST. DAY BRITE VAPOR LUME OR EQUAL.
B	LED	120	LED LIGHT SOURCE, INTERNAL BATTERY CHARGER, CORROSION RESISTANT THERMOPLASTIC HOUSING, ENERGY STAR COMPLIANT, CAPABLE OF OPERATING 1-1/2 HOURS ON NICKEL CADMIUM INTERNAL BATTERY, EMERGI-LITE: ELX SERIES OR EQUAL
D	1/70	120	WALLPACK EXTERIOR FIXTURE, FULLY SHIELDED, FULL CUTOFF, IMA DARK SKY FRIENDLY, WITH INTEGRAL PHOTO CELL, GLASS LENS, DIECAST ALUMINUM HOUSING WITH BRONZE FINISH. RAB LIGHTING WP1FC SERIES RUDD LIGHTING, 12" FULL CUTOFF GWCO SERIES, OR EQUAL.
E	18	120	SELF CONTAINED UNIT WITH LAMP HEADS, INTERNAL BATTERY CHARGER, CORROSION RESISTANT THERMOPLASTIC HOUSING, TEST SWITCH, INDICATOR LIGHTS, LOW VOLTAGE BATTERY DISCONNECT, BROWN OUT PROTECTION, BATTERY LOCKOUT, CAPABLE OF OPERATING 1-1/2 HOURS ON NICKEL CADMIUM INTERNAL BATTERY, EMERGI-LITE: ME SERIES OR EQUAL.

NOTES:

- LIGHTING FIXTURES SHALL MEET COUNTY DESIGN STANDARDS. THIS SHALL INCLUDE PROPER SHIELDING, PROPER ORIENTATION, AND APPLICABLE HEIGHT STANDARDS. ALL LIGHTING FIXTURES SHALL BE SHIELDED SO THAT NEITHER THE LAMP NOR THE RELATED REFLECTOR INTERIOR SURFACE IS VISIBLE FROM ADJACENT PROPERTIES OR PUBLIC AREAS. LIGHT HOODS SHALL BE DARK-COLORED. LIGHTING ASSOCIATED WITH ALL PROJECT COMPONENTS SHALL BE THE MINIMUM NEEDED FOR PUMP STATION OPERATIONS WHICH REQUIRE LIGHTING FOR OPERATIONS AND/OR DURING EMERGENCY SITUATIONS. LIGHTING FIXTURE SUBMITTALS SHALL PROVIDE CONFIRMATION OF COMPLIANCE WITH THESE REQUIREMENTS.

CONTROL RELAY OR COIL
 * INDICATES DEVICE
 CR - CONTROL RELAY
 TD - TIME DELAY RELAY
 (TIMING RANGE AS INDICATED)
 M - MOTOR STARTER
 PC - PHOTOCLELL

|| NORMALLY OPEN CONTACT
 // NORMALLY CLOSED CONTACT

TIMED CONTACTS - CONTACT ACTION DELAYED AFTER COIL IS:

ENERGIZED

NORMALLY OPEN WITH TIME DELAY CLOSING
 NORMALLY CLOSED WITH TIME DELAY OPENING

DE-ENERGIZED

NORMALLY OPEN WITH INSTANT CLOSING AND TIME DELAY OPENING
 NORMALLY CLOSED WITH INSTANT OPENING AND TIME DELAY CLOSING

NORMALLY OPEN PUSHBUTTON

NORMALLY CLOSED PUSHBUTTON,

NO/NC MAINTAINED PUSHBUTTON

THREE-POSITION SELECTOR SWITCH.
 H - HAND
 M - MANUAL
 R - REMOTE
 L - LOCAL
 A - AUTOMATIC
 O - OFF

TWO-POSITION SELECTOR SWITCH:

THREE POSITION SPRING RETURN-TO-CENTER MOMENTARY CONTACT SWITCH

SINGLE POLE TOGGLE SWITCH

VACUUM OR PRESSURE SWITCH, CLOSE ON RISING PRESSURE

VACUUM OR PRESSURE SWITCH, OPEN ON RISING PRESSURE

FLOAT LEVEL SWITCH, CLOSE ON RISING LEVEL

FLOAT LEVEL SWITCH, OPEN ON RISING LEVEL

NORMALLY OPEN

NORMALLY CLOSED

NORMALLY OPEN HELD CLOSED

NORMALLY CLOSED HELD OPEN

MAINTAINED POSITION

TEMPERATURE SWITCH, CLOSE ON RISING TEMPERATURE

TEMPERATURE SWITCH, OPEN ON RISING TEMPERATURE

FLOW SWITCH, CLOSE ON INCREASING FLOW

FLOW SWITCH, OPEN ON INCREASING FLOW

TORQUE SWITCH OPENS ON INCREASING TORQUE

1 FIELD LOCATION LEGEND
 2 LCS ALL DEVICES ARE LOCATED IN THE MOTOR CONTROLLER UNLESS INDICATED OTHERWISE
 3 LCP
 4 MCC
 5 PLC

DIGITAL INPUT TO PLC/RTU/DCS

DIGITAL OUTPUT FROM PLC/RTU/DCS NORMALLY OPEN

DIGITAL OUTPUT FROM PLC/RTU/DCS NORMALLY CLOSED

ANALOG INPUT TO PLC/RTU/DCS 4-20 mA UNLESS OTHER OTHERWISE NOTED

ANALOG OUTPUT FROM PLC/RTU/DCS 4-20 mA UNLESS OTHER OTHERWISE NOTED

SOLENOID VALVE

PILOT LIGHT
 * INDICATES LENS COLOR
 R - RED
 G - GREEN
 A - AMBER
 W - WHITE

PILOT LIGHT PUSH-TO-TEST SEE ABOVE FOR LENS COLORS

HORN

ELAPSED TIME METER

HEATER

GROUND CONNECTION

CROSSING OF CONDUCTORS-NOT CONNECTED

CONDUCTORS CONNECTED

FUSE

VOLTAGE SURGE SUPPRESSOR

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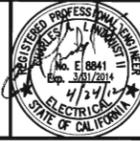
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CAL
 DRAWN BY: JAW
 CHECKED BY: GNM
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



DIGALERT
 DIAL TOLL FREE 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
ELECTRICAL
STANDARD ELECTRICAL SYMBOLS - 2
& LIGHTING FIXTURE SCHEDULE

PROJECT NO. 42502-83120
 FILE NAME: PS-E-002
 SHEET NO.
PS-E-002