ELECTRICAL LIGHTING SYMBOL LIST *

SYMBOL:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE FOR DIMENSIONS AND TYPES
S	SINGLE POLE SWITCH
$S_{\#}$	3=3-WAY SWITCH 4=4-WAY SWITCH
S_O	OCCUPANCY SENSOR, WALL MOUNTED
S_{WP}	WEATHER PROOF SWITCH
S_3	THREE WAY SWITCH
S_4	FOUR WAY SWITCH
S_{O2}	OCCUPANCY SENSOR AND DUAL SWITCHES
$(OC)_U$	OCCUPANCY SENSOR, ULTRASONIC
$(OC)_D$	OCCUPANCY SENSOR, DUAL TECHNOLOGY
	2'X4' LUMINAIRE — SHADING DENOTES LUMINAIRE WITH EMERGENCY LIGHTING CAPABILITY.
	1'X4' LUMINAIRE
	6"X4' LUMINAIRE
	DOWN LIGHT
	4' INDUSTRIAL LUMINAIRE
	EXTERIOR WALL-PACK LUMINAIRE
	SINGLE FACE EXIT SIGN — SHADING INDICATES ILLUMINATED FACE(S). ARROWS INDICATE DIRECTION TO EXIT
	DOUBLE FACE EXIT SIGN
	EMERGENCY LIGHTING UNIT
	EMERGENCY LIGHTING UNIT

ELECTRICAL POWER SYMBOL LIST *

SYMBOL:	DESCRIPTION:
	DUPLEX RECEPTACLE — SHADED DEVICE INDICATES EMERGENCY POWER.
	GROUND FAULT DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
E	ELECTRICAL CONNECTION, WALL MOUNTED
E	ELECTRICAL CONNECTION, CEILING OR FLOOR MOUNTED
J	JUNCTION BOX, WALL MOUNTED
J	JUNCTION BOX, CEILING OR FLOOR MOUNTED
	STARTER OR VARIABLE FREQUENCY DRIVE (VFD)
	MANUAL MOTOR STARTER
	DISCONNECT SWITCH
	COMBINATION STARTER / DISCONNECT
	SURFACE MOUNTED PANELBOARD

LUMINAIRE SYMBOL KEY

SYMBOL:	DESCRIPTION:
	NORMAL BRANCH LUMINAIRE, REFER TO LUMINAIRE SCHEDULES FOR ADDITION INFORMATION.
	BATTERY BALLAST BACKED LUMINAIRE, UNSWITCHED FOR NIGHT LIGHT, UNLESS NOTED 'SE'. REFER TO LUMINAIRE SCHEDULES FOR ADDITION INFORMATION.

* ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO GENERAL ELECTRICAL EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ADDITIONAL SYMBOLS.

ELECTRICAL SYSTEMS SYMBOL LIST *

SYMBOL:	DESCRIPTION:
WALL CLG FLOOR MOUNT	
FACP	FIRE ALARM CONTROL PANEL
V# (V#)	FIRE ALARM – VISUAL DEVICE
F	FIRE ALARM – MANUAL PULL STATION
FT	FIRE ALARM – MANUAL PULL STATION WITH TAMPER GUARD
A# (A#)	FIRE ALARM – AUDIO/VISUAL DEVICE
(H)	FIRE ALARM – HEAT DETECTOR
(HX)	HEAT DETECTOR – EXPLOSION PROOF
(SD) (SD)U	FIRE ALARM – SMOKE DETECTOR
MM	FIRE ALARM – MONITOR MODULE
(FS)	FIRE PROTECTION – FLOW SWITCH
(MS)	FIRE PROTECTION – VALVE MONITOR SWITCH
(PIV)	FIRE PROTECTION – POST INDICATOR VALVE
PB	PUSH-BUTTON
PP	PUSH-PAD

GENERAL ELECTRICAL NOTES:

1. "1/300" INDICATES DETAIL NUMBER/SHEET NUMBER.
2. ##-### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
3. INDICATES KEYED NOTE USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.
4. "SE" INDICATES LUMINAIRE IS SWITCHED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY UPON LOSS OF POWER. CONNECT THE SWITCHING DEVICE TO THE BALLAST FOR NORMAL OPERATION. EXTEND "AN" UNSWITCHED PORTION OF THE SAME CIRCUIT TO THE FIXTURE FOR CONNECTION TO THE EMERGENCY BATTERY AND BALLAST.
5. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
6. ALL ELECTRICAL CONDUCTORS SHALL BE COPPER.
7. INDICATES NUMBER OF WIRES IN CONDUIT. INDICATES A HOMERUN BACK TO THE ELECTRICAL PANEL. PANEL NAME AND CIRCUIT NUMBER SHOWN AT END OF ARROW.
   - GROUND WIRE
   - NEUTRAL WIRE
   - PHASE WIRE
8. INDICATES NUMBER OF WIRES IN CONDUIT FROM LIGHT FIXTURE TO LIGHT FIXTURE OR DEVICE TO DEVICE. (EX: RECEPTACLES)
   - GROUND WIRE
   - NEUTRAL WIRE
   - PHASE/SWITCHING WIRE
9. ABBREVIATION KEY:
   - E.C. ELECTRICAL CONTRACTOR
   - T.C. TELECOMMUNICATIONS CONTRACTOR
   - M.C. MECHANICAL CONTRACTOR
   - G.C. GENERAL CONTRACTOR
   - AFF ABOVE FINISHED FLOOR
   - C CONDUIT
   - TYP TYPICAL
   - +#" MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE
10. MOUNTING SUBSCRIPT KEY:

    RECEPTACLES AND TELECOMMUNICATIONS OUTLETS:
    - A MOUNT ABOVE COUNTER (+6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH)
11. LINE TYPE KEY:
    - NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
    - NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
    - NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
    - EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

SHEET INDEX

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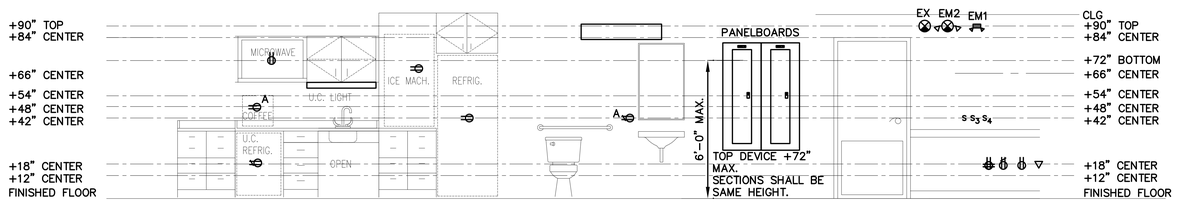
E-3003-7.6	SECURITY SCHEDULES

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. CIRCUITS SERVING EMERGENCY AND EXIT LUMINAIRES WILL BE RUN IN SEPARATE RACEWAY FROM ALL OTHER CIRCUITS.
4. A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
5. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
6. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
7. FLUSH MOUNT ALL TOGGLE SWITCHES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. TOGGLE SWITCHES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
8. TWO ADJACENT SWITCHES SHOWN WITH A SINGLE CIRCUIT CONNECTION INDICATES MULTI-LEVEL SWITCHING; INBOARD AND OUTBOARD LAMPS ARE TO BE SWITCHED SEPARATELY.
9. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
10. DUPLEX RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) SHALL BE CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
11. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
12. ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
13. ALL FINAL ELECTRICAL CONNECTIONS TO MOTORS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT. USE LIQUIDTIGHT CONDUIT AND FITTINGS WHERE SUBJECT TO MOISTURE. ROUTE GROUND WIRE FROM CIRCUIT GROUND TO MOTOR GROUND THROUGH FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL NOT EXCEED 6' IN LENGTH.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
15. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS, SEE SECTION 16080.
16. CONTRACTOR SHALL INSTALL AT EACH SERVICE ENTRANCE A PERMANENT DIRECTORY ACCORDING TO ARTICLE 230, PART 1 OF THE NATIONAL ELECTRIC CODE.
17. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.



TYPICAL ELECTRICAL MOUNTING HEIGHTS

NO SCALE

NOTES:

1. TYPICAL MOUNTING HEIGHT, UNLESS NOTED OTHERWISE ON PLANS. VERIFY WITH OTHER CONTRACTORS PRIOR TO START OF ROUGH-IN. ARCHITECTURAL ELEVATIONS AND EQUIPMENT DRAWINGS SHALL TAKE PRECEDENCE. COORDINATE LOCATIONS WITH EQUIPMENT AND MILLWORK DRAWINGS.

BID DOCUMENTS 7/1/2011

Revisions	Date

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I hearby certify that this Plan, Specification, or Report was prepared by me, or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Oregon.

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NATIONAL CEMETERY ADMINISTRATION

Drawing Title: ELECTRICAL GENERAL NOTES - VEHICLE STORAGE	Project Title: REPLACE ADMINISTRATION AND MAINTENANCE BUILDING AND SITE IMPROVEMENTS		Date: 7-1-2011
			Project No. 906CM3009
Approved: Director, Office of Construction Management	Building Number: 3003	Checked: JOHMcG	Drawn: BRAWIT
Approved: Director, Project Management Service	Location: EAGLE POINT NATIONAL CEMETERY, 2763 RILEY ROAD, EAGLE POINT, OR 97524		DRAWING NO. E-3003-0.1
			Dwg. 170 OF 181