### ELECTRICAL ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
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<td>ARCHITECT/ENGINEER</td>
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<td>ALARM ANNUNCIATOR PANEL</td>
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<tr>
<td>AC</td>
<td>ALTERNATING CURRENT OR ARMORED CABLE</td>
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<td>ADJ</td>
<td>ADJACENT, ADJOINING</td>
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<td>ADO</td>
<td>AUTOMATIC DOOR OPENER</td>
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<td>AF</td>
<td>AMPERE FRAME OR AMP FUSE</td>
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<td>ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT</td>
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<td>ABOVE FINISHED FLOOR</td>
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<td>BELOW FINISH FLOOR</td>
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<td>BIL</td>
<td>BASIC INSULATION LEVEL</td>
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ELECTRICAL ABBREVIATIONS

BLDG    BUILDING
BPIP    BOILER PLANT INSTRUMENTATION PANEL
BRKR    BREAKER
BYP     BY PASS

C       CONDUIT
CAB     CABINET
CALC    CALCULATE
CAP     CAPACITY
CAT     CATALOG
CATV    COMMUNITY ANTENNA TELEVISION
CCR     CONTROL CONTACTER
CCTV    CLOSED CIRCUIT TELEVISION
cd      CANDELA
CD      CONSTRUCTION DOCUMENTS
CF      CONTRACTOR FURNISHED
CF/CI   CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI   CONTRACTOR FURNISHED/OWNER INSTALLED
CFE     CONTRACTOR FURNISHED EQUIPMENT
CHW     CHILLED WATER
CHWP    CHILLED WATER PUMP
CKT     CIRCUIT
CKT BRKR CIRCUIT BREAKER
CLF     CURRENT LIMITING FUSE
CLG     CEILING
CMU     CONCRETE MASONRY UNIT
COAX    COAX CABLE
COMM    COMMUNICATION
COMPT   COMPARTMENT
CONC    CONCRETE
CONT    CONTINUE
CONTR   CONTRACTOR
COORD   COORDINATE
CPT     CONTROL POWER TRANSFORMER
CRI     COLOR RENDERING INDEX
CT      CURRENT TRANSFORMER
CTV     CABLE TELEVISION
CU      COPPER
CU FT   CUBIC FEET
# ELECTRICAL ABBREVIATIONS

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<tr>
<td>dB</td>
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**Department of Veterans Affairs**

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**SCALE:** NONE

**DATE ISSUED:** APRIL 2014  **CAD DETAIL NO.:** SD260511-03.DWG
ELECTRICAL ABBREVIATIONS

FACP  FIRE ALARM CONTROL PANEL
FC    FOOTCANDLE

FIXT  FIXTURE
FLA   FULL LOAD AMPS
FLEX  FLEXIBLE METALLIC CONDUIT
FLT   FLOODLIGHT
FLUOR FLUORESCENT
FLUOR FIX FLUORESCENT FIXTURE
FOUTT TELEPHONE FLOOR OUTLET
FP    FIRE PROTECTION
FT    FEET OR FOOT
FU SW FUSED SWITCH
FVNR  FULL VOLTAGE NON—REVERSING
FVR   FULL VOLTAGE REVERSING

G    ELECTRICAL GROUND
GEN  GENERATOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER
GTB  GROUND TERMINAL BOX

HID  HIGH INTENSITY DISCHARGE
HOA  HAND—OFF—AUTOMATIC
HP   HORSEPOWER
HT   HEIGHT
Hz   HERTZ

IESNA ILLUMINATION ENGINEERING SOCIETY OF
       NORTH AMERICA
IMC  INTERMEDIATE METAL CONDUIT
INCAND INCANDESCENT
IR   INFRARED
IWH  INSTANTANEOUS WATER HEATER

J—BOX JUNCTION BOX

kV   KILOVOLT
kVA  KILOVOLT AMPERE
kVAH KILOVOLT AMPERE PER HOUR
kVAR KILOVOLT AMPERE REACTIVE
kW   KILOWATT
**ELECTRICAL ABBREVIATIONS**

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<td>NEC</td>
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<td>NEMA</td>
<td>NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION</td>
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ELECTRICAL ABBREVIATIONS

NEUT OR N  NEUTRAL
NFPA  NATIONAL FIRE PROTECTION ASSOCIATION
NIC  NOT IN CONTRACT
NL  NIGHT LIGHT
NO  NORMALLY OPEN
NS  NO SCALE
NTS  NOT TO SCALE
OC  ON CENTER
OD  OUTSIDE DIAMETER
OL  OVERLOAD

P  POLE
PA  PUBLIC ADDRESS
PB  PULL BOX
PBPU  PREFABRICATED BEDSIDE PATIENT UNIT
PCB  POLYCHLORINATED BIPHENYL
PEC  PHOTOELECTRIC CELL
PED  PEDESTAL
PEND  PENDANT
PF  POWER FACTOR
PH  PHASE
PNL  PANEL

PT  POTENTIAL TRANSFORMER
PVC  POLYVINYL CHLORIDE (PLASTIC)
PWR  POWER

RCP  REFLECTED CEILING PLAN
REC  RECESSED
RECPT  RECEPTACLE
RGS  RIGID GALVANIZED STEEL
RM  ROOM
RMS  ROOT MEAN SQUARE
REQD  REQUIRED

SCC  SHORT CIRCUIT CAPACITY
SES  SERVICE ENTRANCE SECTION
SD  SMOKE DETECTOR
SF  SQUARE FOOT (FEET)
# Electrical Abbreviations

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<td>SHEET</td>
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<tr>
<td>SI</td>
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**Detail Title / Electrical Abbreviations**

**Scale:** NONE

**Date Issued:** April 2014  
**CAD Detail No.:** SD260511-07.DWG
DELTA CONNECTION
MOTOR, SINGLE-PHASE
MOTOR, THREE-PHASE
TRANSFORMER
WYE CONNECTION
EARTH GROUND
JUNCTION BOX
PULL BOX
PRESSURE SWITCH—CLOSE ON INCREASE
PRESSURE SWITCH—OPEN ON INCREASE
SWITCH, MULTIPosition
SWITCH, NORMALLY CLOSED FLOAT
SWITCH, NORMALLY CLOSED FOOT OPERATED
SWITCH, NORMALLY CLOSED LIMIT
SWITCH, NORMALLY CLOSED TEMPERATURE ACTIVATED
SWITCH, NORMALLY CLOSED TIME DELAY
SWITCH, NORMALLY OPEN FLOAT
ELECTRICAL SYMBOLS - DIAGRAM

- SWITCH, NORMALLY OPEN LIMIT
- SWITCH, NORMALLY OPEN TEMPERATURE ACTIVATED
- SWITCH, NORMALLY OPEN TIME DELAY
- SWITCH, SINGLE BREAK
- NORMALLY CLOSED RELAY CONTACT
- NORMALLY OPEN RELAY CONTACT
- FUSE WITH RATING
- MOLDED CASE CIRCUIT BREAKER
- LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- MEDIUM-VOLTAGE OIL CIRCUIT BREAKER
- MEDIUM-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- SWITCH AND FUSE UNIT
- FUSED DRAWOUT POTENTIAL TRANSFORMER
  - RELAY; NUMBER INDICATES RELAY TYPE
    - 50 = INSTANTANEOUS OVERCURRENT OR RATE-OF-RISE
    - 51 = AC-TIME OVERCURRENT
    - 67 = AC-DIRECTIONAL OVERCURRENT
    - 86 = LOCK OUT
- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- FUSIBLE LINK
- STARTER, COMBINATION WITH DISCONNECT SWITCH
- STARTER OR MOTOR CONTROLLER
ELECTRICAL SYMBOLS - DIAGRAM

VARIABLE FREQUENCY DRIVE
GENERATOR, POWER
BATTERY
CAPACITOR
POTHEAD
STRESS CONE
LIGHTNING ARRESTOR
RECTIFIER, CATHODIC PROTECTION
AMMETER
VOLTMETER
WATTMETER
WATT-HOUR METER
ELECTRICAL SYMBOLS - POWER PLAN

- MOTOR, SINGLE-PHASE
- MOTOR, THREE-PHASE
- TRANSFORMER, PLAN
- WYE CONNECTION
- DUCT, CELL FLOOR HEADER
- DUCT, TROLLEY
- DUCT, UNDERFLOOR JUNCTION BOX
- EARTH GROUND
- JUNCTION BOX
- LADDER CABLE TRAY
- BRANCH CIRCUIT HOMERUN. LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN
- PULL BOX
- WIREWAY
- RIGID CONDUIT LINE = RC
- DIRECT BURIAL CABLE = DB
- POWER DUCT = P
- SUBSTATION
ELECTRICAL SYMBOLS - POWER PLAN

HI VOLTAGE SWITCH ON CONCRETE PAD
LOW VOLTAGE SWITCH ON CONCRETE PAD
DUAL POWER AND TELECOMMUNICATIONS MANHOLE

BUSWAY
FLOOR OUTLET, DATA COMMUNICATION
OUTLET, DATA COMMUNICATION
PUSH BUTTON
DISTRIBUTION PANEL
LIGHTING PANEL
PANELBOARD CABINET, FLUSH MOUNTED
PANELBOARD CABINET, SURFACE MOUNTED
RECEPTACLE, CLOCK HANGER
RECEPTACLE, DUPLEX
RECEPTACLE, DUPLEX ON EMERGENCY POWER
RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER
RECEPTACLE, QUADRUPLEX
RECEPTACLE, SINGLE
RECEPTACLE, SINGLE WITH SWITCH
RECEPTACLE, SPECIAL PURPOSE
**ELECTRICAL SYMBOLS - POWER PLAN**

- **宭** RECEPTACLE, SPECIAL PURPOSE
  - A = 120V, 20A, 1 PHASE, 2–POLE, 3W, NEMA 5–20R.
  - B = 208V, 20A, 1 PHASE, 2–POLE, 3W, NEMA 6–20R.
  - C = 120V, 30A, 1 PHASE, 2–POLE, 3W, NEMA 5–30R.
  - D = 208V, 30A, 1 PHASE, 2–POLE, 3W, NEMA 6–30R.
  - E = 208V, 60A, 1 PHASE, 3–POLE, 4W, NEMA 14–60R.
  - F = 208V, 30A, 3 PHASE, 3–POLE 4W, NEMA 15–30R.
  - G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15–30R.
  - H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15–60R.

- **宭 S** RECEPTACLE, SWITCHED DUPLEX

- **宭** DROP CORD, SINGLE CONVENIENCE OUTLET, 3–WIRE, GROUNDING TYPE, 20A, W/#12 CONDUCTORS IN FLEXIBLE CORD ((CENTER LINE OF OUTLET: 1981mm (6′–6””) AFF. MINIMUM)).

- **宭** ELECTRICAL STRIP MOLD ((OUTLETS ON 610mm (2′–0””) CENTERS OR AS DESIGNATED ON DRAWINGS)), MTD 1067mm (3′–6””) AFF OR AS INDICATED.

- **宭ψψ** 3–GANG COMPARTMENT BOX IN FLOOR FOR TELEPHONE, DATA & RECEPTACLE.
ELECTRICAL SYMBOLS - POWER PLAN

Disconnect Switch, Fused
Disconnect Switch, Unfused
Starter, Combination with Disconnect Switch
Starter or Motor Controller
VFD
Time Clock
Pothead
Stress Cone
Rectifier, Cathodic Protection Sanitary
Ventilator or Fan Coil Unit Outlet
Conduit Terminated 152mm (6") Aff in Standard Box for Extension to Equipment as Directed.
Conduit Terminated w/Coupling (Flush w/Finished Floor) for Extension to Equipment as Directed.

$# Switch (# subscript as indicated below):
M = Manual Motor Starting
MP = Motor Snap with Pilot Light (Thermal Type)
WP = Weather Proof
K = Key Operated
LM = Low Voltage Master
MC = Momentary Contact
P = With Pilot Light

DETAIL TITLE / ELECTRICAL SYMBOLS - POWER PLAN

SCALE: NONE

DATE ISSUED: APRIL 2014 CAD DETAIL NO.: SD260511-14.DWG
ELECTRICAL SYMBOLS - LIGHTING PLAN

SWITCH, CEILING MOUNTED PULL

SWITCH (# SUBSCRIPT AS INDICATED BELOW):
BLANK = SINGLE POLE
3 = THREE-WAY
D = DIMMER
LV= LOW VOLTAGE
LM= LOW VOLTAGE MASTER
PB= PUSH BUTTON STATION
T = TIMER OPERATED
2 = DOUBLE POLE
4 = FOUR-WAY
K = KEY OPERATED
P = WITH PILOT LIGHT
RC= REMOTE CONTROL
WP= WEATHER PROOF
Mo= OCCUPANCY SENSOR

RECESSED DOWNLIGHT FIXTURE, LETTER INDICATES TYPE.

LIGHT FIXTURE, RECESSED FLUORESCENT, 610x1220mm (2’x4’);
LETTER INDICATES TYPE.

LIGHT FIXTURE, RECESSED FLUORESCENT, 305x1220mm (1’x4’);
LETTER INDICATES TYPE.

LIGHT FIXTURE, RECESSED FLUORESCENT, 305x2439mm
(1’x8’); LETTER INDICATES TYPE.

LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 610x1220mm (2’x4’);
LETTER INDICATES TYPE.

LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 305x1220mm (1’x4’);
LETTER INDICATES TYPE.

LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT,
305x2439mm (1’x8’); LETTER INDICATES TYPE.

LIGHT FIXTURE, FLUORESCENT EMERGENCY;
LETTER INDICATES TYPE.

LIGHT FIXTURE, RECESSED FLUORESCENT, 610x610mm (2’x2’);
LETTER INDICATES TYPE.
ELECTRICAL SYMBOLS - LIGHTING PLAN

LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 610x610mm (2’x2’); LETTER INDICATES TYPE.

LIGHT TRACK WITH HEADS AS SHOWN

LIGHT FIXTURE, STRIP/INDUSTRIAL FLUORESCENT; LETTER INDICATES TYPE.

LIGHT FIXTURE, WALL MOUNTED

LIGHTING, ONE HEAD EMERGENCY BATTERY POWER

LIGHTING, TWO HEAD EMERGENCY BATTERY POWER

LIGHTING, THREE HEAD EMERGENCY BATTERY POWER

STREET LIGHT WITH BRACKET

LIGHT POLE, ONE MAST ARM, ONE LUMINAIRE

LIGHT POLE, TWO MAST ARMS, TWO LUMINAIRES

LIGHT POLE, POST TOP MOUNT LUMINAIRE

LIGHT POLE, THREE MAST ARMS, THREE LUMINAIRES

LIGHT POLE, ONE LUMINAIRE

FLOOD LIGHT - EXTERIOR BUILDING

LIGHTING WALL PACK - EXTERIOR BUILDING

EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN

EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN

LIGHT FIXTURE, BOLLARD

LIGHT FIXTURE, DIRECTIONAL
GENERAL NOTES

A. ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN.

B. LIGHTING FIXTURES WITH MORE THAN TWO LAMPS SHALL HAVE TWO OUTER LAMPS CONTROLLED WITH ONE SWITCH AND INNER LAMP(S) CONTROLLED BY A SECOND SWITCH.

C. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

D. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

GENERAL NOTES - DEMOLITION

A. FOR EXISTING EQUIPMENT, SUCH AS LIGHTING FIXTURES, WIRING DEVICES, CONDUITS, ETC., SHOWN ON PLANS TO BE REMOVED, COMPLETELY CUT/CAP CONDUITS AT THE AREA OF WORK PERIMETER AND REMOVE CONDUIT WITHIN THE WORK AREA, DISCONNECT WIRING AT THE OVERCURRENT PROTECTIVE DEVICE AND REMOVE WIRING COMPLETELY FROM THE ABANDONED CONDUITS.

B. DISCONNECT ALL ABANDONED WIRING OF ALL TYPES AT THE OVERCURRENT PROTECTIVE DEVICE. COMPLETELY REMOVE ALL ABANDONED WIRING.

C. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
GENERAL NOTES:

1. ALL HARDWARE SHALL BE STAINLESS STEEL.
2. PROVIDE 1 MOUNTING POINT PER 305mm (12") OF BAR LENGTH.
3. HOLES MAY BE ADDED IF REQUIRED.

GROUNDING BAR DETAIL

NTS
Provide 127mm (5") of slack at midpoint between two end of flexible galvanized steel conduit. Provide green insulated copper equipment grounding conductor with flexible conduit.

Conduit trapeze per SD260533-03, typ.

Floor or roof structure. Field verify actual conditions, typ.

Seismic or expansion joint. Field verify actual conditions & locations.

Structural member (beam, joist, etc.), typ.

Steel expansion anchor

Beam clamp, typ.

Junction box, typ (size as required)

Integral galvanized lipped steel mounting channel

Junction box (size as required)

Conduit fitting

Provide extra cable to make complete loop around box perimeter

General note:

1. Detail is applicable only for conduit smaller than 76mm (3").

Conduit expansion joint crossing detail - flexible conduit

NTS
GENERAL NOTES:

1. INSTALLATION IS ACCEPTABLE ALTERNATE TO DETAIL SD260533–01.

2. INSTALLATION IS REQUIRED FOR CONDUIT 76mm (3") AND LARGER.

CONDUIT EXPANSION JOINT CROSSING DETAIL—EXPANSION FITTING

NTS
GENERAL NOTES:

1. INTEGRAL GALVANIZED LIPPED STEEL MOUNTING CHANNEL LONGER THAN 915mm (36") SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.

2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 05 33, RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.

3. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 13 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.
CONDUIT ROOF PENETRATION DETAIL

GENERAL NOTES:

1. Maintain a minimum clearance of 305mm (12") on all sides of roof penetration from walls, curbs, and other projections to facilitate proper flashing.

2. Flanges of adjacent flashings shall not be cut or overlapped.

3. Verify roof & structural system with architect.

4. Coordinate flashing installation with roofing contractor to ensure proper methods & materials are used to maintain roof warranty.

**STAINLESS CLAMP, TYP.**
**PREFabricated rubber boot cap with graduated steps & weather-proof pressure seal to collar**
**SEALANT AT PENETRATION TO MEMBRANE JUNCTURE BY ROOFING CONTRACTOR**
**ROOF MEMBRANE**
**WATER CUT-OFF MASTIC COMPATIBLE WITH ROOF MEMBRANE**
**CONDUIT CLAMP, SIZE AS REQUIRED**
**INTEGRAL GALVANIZED LIPPED STEEL MOUNTING CHANNEL**
**BATT INSULATION**
**PREFabricated formed 1.52mm (0.06") thick aluminum flashing round collar with min. 76mm (3") wide flange. Attach to roof per manufacturer's instructions**
**MULTIPLE MEMBRANE STRIPPING PLYS FEATHERED AT FIELD OF ROOF BY ROOFING CONTRACTOR. PRIME FLANGE BEFORE STRIPPING.**

**CONDUIT, TYP.**
**SEAL-OFF FITTING, TYP.**
**STEEL EXPANSION ANCHOR**
**9.52mm (3/8") MIN GALVANIZED THREADED ROD, TYP.**
**LOCKING SQUARE WASHER & LOCKNUT**
**CONDUIT CLAMP, SIZE AS REQUIRED**

DETAIL TITLE / CONDUIT ROOF PENETRATION DETAIL

SCALE : NONE

DATE ISSUED: APRIL 2014  CAD DETAIL NO.: SD260533-05.DWG
FLOOR SLAB PENETRATION DETAIL

CONDUIT, TYP

FIRESTOP SEALANT
PER SECTION 07 84 00,
FIRESTOPPING

FLOOR SLAB,
TYP.

MINERAL WOOL
(FIRMLY PACKED)

INTEGRAL GALVANIZED
LIPPED STEEL MOUNTING
CHANNEL, TYP.

STEEL EXPANSION
ANCHOR, TYP

9.52mm
(3/8") MAX

SPRING
NUT, TYP

JUNCTION BOX
(SIZE AS REQUIRED)

CONDUIT FITTING

NTS
SECTION "A-A"

GENERAL NOTE:
1. INCLUDE ALUMINUM LADDER (NOT SHOWN FOR CLARITY)

SECTION "B-B"

POWER MANHOLE DETAILS

DETAIL TITLE / POWER MANHOLE DETAILS

SCALE: NONE

DATE ISSUED: APRIL 2014

CAD DETAIL NO.: SB285541-01.DWG
GENERAL NOTES:

1. CONCRETE SHALL BE 2000 P.S.I. @ 28 DAYS, OR AS SPECIFIED.

2. PROVIDE #4 REINFORCING RODS ON TOP AND BOTTOM OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS.

3. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 610mm (24") OR AS OTHERWISE SPECIFIED IN SECTION 26 05 41.

4. PROVIDE MINIMUM 152mm (6") SPACE BETWEEN POWER AND TELECOMMUNICATION DUCTS. INCREASE SIZE AS REQUIRED.

5. INNERDUCT QUANTITY AND SIZE AS INDICATED ON PLANS.

DUCT BANK DETAILS

NTS
MANHOLE GROUNDING DETAILS

DUCT BANK
CABLE PULLING IRONS

#3/0 STRANDED BARE CU COMPLETE RING.
EXOTHERMIC WELD CONNECTION

GROUND ROD PER SECTION 26 05 26

EQUIPMENT GROUND CONDUCTOR
MANHOLE COVER FRAME GROUND CONNECTION

CABLE SPLICES

#6 STRANDED BARE CU CABLE (TYP)

EMBED CHANNEL OR CABLE RACK (TYP)

BRAIDED SHIELD DRAIN WIRES (TYP)

EXOTHERMIC WELD CONNECTION (TYP)

CABLE CLIP (TYP)

DRILL AND TAP GROUND CONNECTION

SUMP FRAME

NTS
GRADE. FEATHER & TAMP
BACKFILL TO CREATE FLUSH
INSTALLATION AND POSITIVE
DRAINAGE AWAY FROM BOX

PULLBOX (SEE SPECIFICATIONS)
LINE SIDES OF EXCAVATION
WITH 13.6 KG (30 LBS.)
FELT PAPER

(4) CONCRETE BRICKS
51mmx203mmx406mm
(2"x8"x16")
CLEAN 19mm (3/4")
CRUSHED ROCK

CONDUIT(S) WITH BELL
ENDS (TYP). SIZE, QUANTITY
AND WIRING AS INDICATED
ON PLANS

UNDERGROUND CONCRETE PULLBOX -
TURF AREAS

NTS
FINISHED PAVING

PULLBOX (SEE SPECIFICATIONS)

LINE SIDES OF EXCAVATION
WITH 13.6 KG (30 LBS.)
FELT PAPER

(4) CONCRETE BRICKS
51mm x 203mm x 406mm
(2" x 8" x 16")

CLEAN 19mm (3/4")
CRUSHED ROCK

305mm
(12")

VARIES

CONDUIT(S) WITH BELL
ENDS (TYP.). SIZE, QUANTITY
AND WIRING AS INDICATED
ON PLANS

UNDERGROUND CONCRETE PULLBOX - PAVED AREAS

DETAIL TITLE / UNDERGROUND CONCRETE PULLBOX - PAVED AREAS

SCALE: NONE

DATE ISSUED: APRIL 2014

CAD DETAIL NO.: SD260541-05.DWG
CAST METAL "WHILE-IN-USE" WP COVER(S) & RECEPTACLE(S).

CAST METAL, 2-GANG, NEMA 3R JUNCTION BOX WITH THREADED HUBS.

RIGID STEEL CONDUIT FOR SUPPORT PER N.E.C. ART. 314

RIGID STEEL CONDUIT FOR WIRING

ROOF PENETRATION AND CONDUIT SUPPORT PER SD260533-05

SECTION "A-A"

ELEVATION

RECEPTACLE ROOF MOUNTING DETAIL

NTS
EMERGENCY GENERATOR EXHAUST

ENGINE EXHAUST PIPE SIZE AS RECOMMENDED BY MANUFACTURER

MUFFLER, SIZE AS RECOMMENDED BY MANUFACTURER

THIMBLE INNER SLEEVE

THIMBLE OUTER SLEEVE

FLASHING & ROOF OPENING BY ARCHITECTURE

CLEARANCE AS REQUIRED BY THIMBLE MANUFACTURER & ARCHITECT

EXTEND PIPE, SIZE AS RECOMMENDED BY MANUFACTURER.

305mm (12") LONG Drip LEG WITH DRAIN VALVE

RAIN SHIELD

254mm (10") MIN ROOF
GENERAL NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER’S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

LUMINAIRE MOUNTING - GYPBOARD CEILING

NTS
GENERAL NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER’S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.
GENERAL NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER’S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

DOWNLIGHT MOUNTING - GYPBOARD CEILING

NTS
GENERAL NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER’S MOUNTING INSTRUCTIONS AND USING RECOMMENDED MOUNTING HARDWARE
EXIT SIGN MOUNTING - GYPBOARD CEILING

GENERAL NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER’S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.
GENERAL NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER’S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.
GENERAL NOTES:

1. BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. STRUCTURAL DESIGN IS SHOWN ON STRUCTURAL DRAWINGS.

2. REFER TO SPECIFICATION SECTION 26 56 00 FOR MOUNTING AND LEVELING REQUIREMENTS.

3. REFER TO LANDSCAPE DETAILS FOR INSTALLATION OF PAVERS AND INTERFACE BETWEEN PAVERS AND POLE BASE.
GENERAL NOTES:

1. BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. STRUCTURAL DESIGN IS SHOWN ON STRUCTURAL DRAWINGS.

2. REFER TO SPECIFICATIONS SECTION 26 56 00 FOR MOUNTING AND LEVELING REQUIREMENTS.

POLE BASE DETAIL - TURF AREAS

NTS
GENERAL NOTES:

1. BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. STRUCTURAL DESIGN IS SHOWN ON STRUCTURAL DRAWINGS.

2. REFER TO SPECIFICATION SECTION 26 56 00 FOR MOUNTING AND LEVELING REQUIREMENTS.

POLE BASE DETAIL - TURF AREAS

#4 BARE COPPER GROUND 6069mm (20'-0'') COILED BELOW BASE
GENERAL NOTES:

1. BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. STRUCTURAL DESIGN IS SHOWN ON STRUCTURAL DRAWINGS.

2. REFER TO SPECIFICATION SECTION 26 56 00 FOR MOUNTING AND LEVELING REQUIREMENTS.

3. REFER TO LANDSCAPE DETAILS FOR INSTALLATION OF PAVERS AND INTERFACE BETWEEN PAVERS AND POLE BASE.

BOLLARD BASE DETAIL - PAVED AREAS

NTS
GENERAL NOTES:

1. BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. STRUCTURAL DESIGN IS SHOWN ON STRUCTURAL DRAWINGS.

2. REFER TO SPECIFICATION SECTION 26 56 00 FOR MOUNTING AND LEVELING REQUIREMENTS.

BOLLARD BASE DETAIL - TURF AREAS

NTS