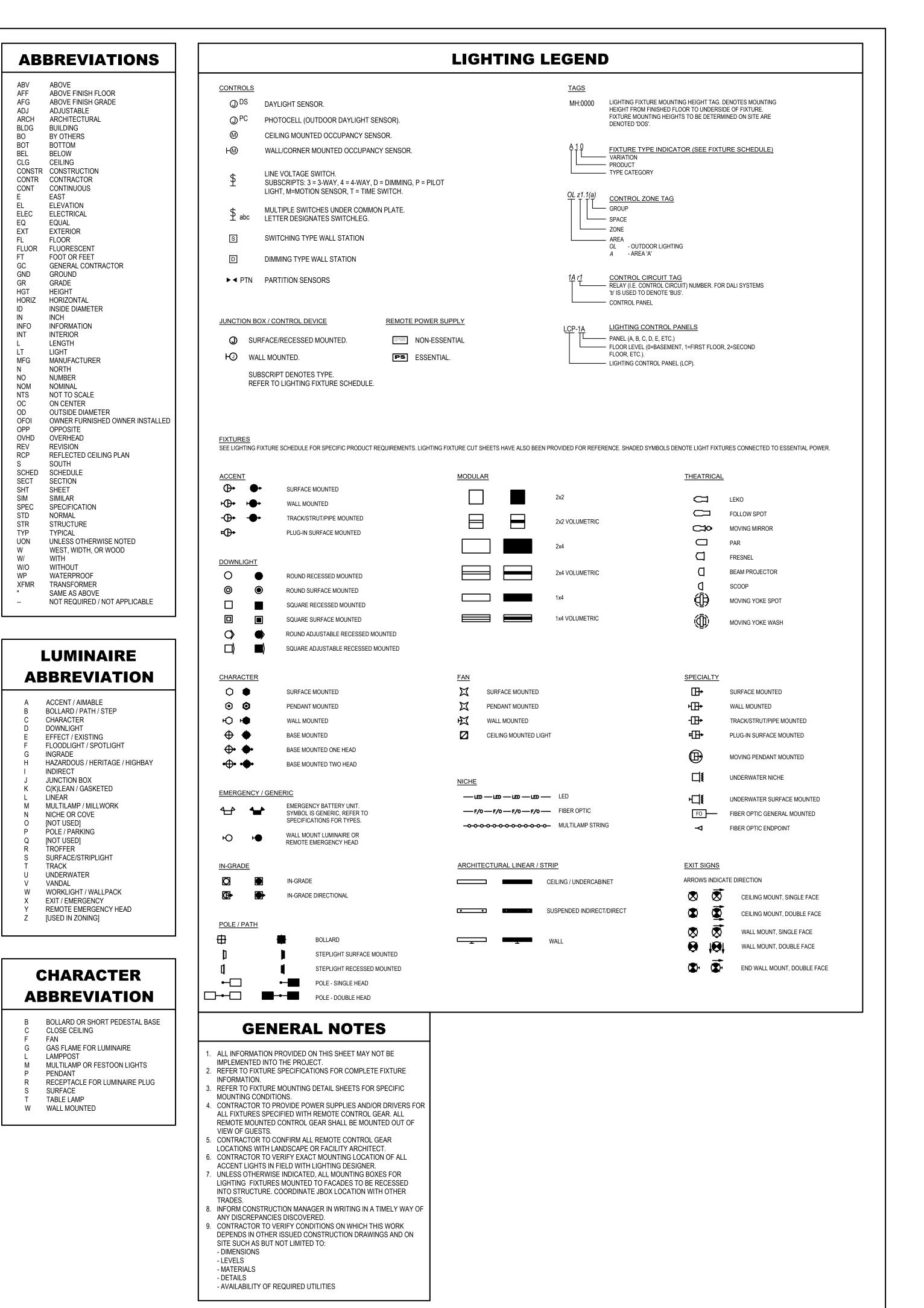
| | | | | 1 | | 1 | | | | |
|------------------------------|--|-----------------------------|--|--------------------------|---|---|---|--|------------------|--|
| POWER & DISTRIBUTION SYSTEMS | | KITCHEN/LAUNDRY APPLICANCES | | FIRE ALARM SYSTEM | | SECURITY SYSTEM | | MISCELLANEOUS ABBREVIATIONS/SUBSCRIPTS/SYMBOLS | | |
| ** | | D | 15A, 120V-1ø DUPLEX RECEPTACLE FOR DISHWASHER, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | | MANUAL PULL STATION C/W PROTECTIVE 9VDC BATTERY OPERATED LEXAN COVER. | ES | ELECTRIC DOOR STRIKE. | | A | MOUNTING HEIGHT FOR DEVICES ABOVE COUNTER/SINK MILLWORK TO BE 1020mm |
| | UTILITY DISCONNECT. | | 15A, 120V—1ø DUPLEX RECEPTACLE FOR FRIDGE, | ⊘ ⊘ × | HEAT DETECTOR. COMBINATION, FIXED 57°C AND RATE OF RISE. SUBSCRIPT 'X' INDICATES 88°C FIXED TEMPERATURE. | (P) | SECURITY SYSTEM CONTROL PANEL | | | FROM TOP OF DEVICE TO A.F.F. (UNLESS NOTED OTHERWISE). |
| 7 | | F | LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | | HEAT DETECTOR. FIXED ONLY (57°C) SUBSCRIPT 'X' INDICATES | EB | REQUEST TO EXIT BUTTON | | 1-3 | TYPICAL NORMAL POWER CIRCUIT NUMBER EG. PANELBOARD LP-1 CIRCUIT NUMBER 3. |
| | DELTA STAR POWER TRANSFORMER. | U/F | 15A, 120V-1Ø DUPLEX RECEPTACLE FOR UNDER-COUNTER FRIDGE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | ● ● × | 88°C RATING. | <u></u> | AUTOMATIC DOOR OPERATOR. | | E1-3 | - TYPICAL ESSENTIAL POWER CIRCUIT NUMBER |
| | CIRCUIT BREAKER. | Н | 15A, 120V-1ø DUPLEX RECEPTACLE FOR KITCHEN HOOD, | ₩ ₩ R | SMOKE DETECTOR. IONIZATION TYPE. SUBSCRIPT "R" INDICATES RELAY BASE. | (ML) | MAGNETIC DOOR LOCK. | | 1A-3 | EG. PANELBOARD LPE-1 CIRCUIT NUMBER 3. - TYPICAL CONTROL PANEL CIRCUIT NUMBER |
| | | | LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | 0 | 120V LOCAL SMOKE ALARM CEILING MOUNTED. IONIZATION TYPE. | (P) | LOW VOLTAGE POWER SUPPLY FOR THE DOOR STRIKE. PUSH BUTTON. | | 75.1 | EG. PANELBOARD LP-1A CIRCUIT NUMBER 3. |
| | CIRCUIT BREAKER. (DRAW OUT TYPE). | \mathbb{R} | 30A, 120V/208V-1ø(14-30R) RECEPTACLE FOR DRYER, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | | | PB (A) | DOOR ACTUATOR | s | 3P+N AFF | - 3 POLE & UNSWITCHED NEUTRAL. - ABOVE FINISHED FLOOR. |
| % | | W | 15A, 120V-10 DUPLEX RECEPTACLE FOR WASHER, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | | 120V LOCAL SMOKE ALARM WITH STROBE. | KP | KEY PAD. | U B S | В | - BENCH MOUNTED. |
| | CIRCUIT BREAKER. (DRAW OUT TYPE) WITH MICROPROCESSOR | | 15A, 120V-1ø DUPLEX RECEPTACLE FOR WASHER, AND 30A, | $ \otimes $ | CARBON MONOXIDE. | | CARD READER. | C R | C | - CEILING SPACE MOUNTED. |
| | BASED TRIP UNIT. | W/D | 120/280V-1ø(14-30R) RECEPTACLE FOR DRYER. LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | × | COMBINATION SMOKE/CARBON MONOXIDE/STROBE. | IR | INFRA RED READER. | | D/I EXP/EP | WITH DISCONNECT AND VISIBLE ISOLATION. EXPLOSION PROOF. |
| | | S | 50A, 120V/208V-1ø(14-50R) RECEPTACLE FOR STOVE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | | AIR DUCT TYPE SMOKE DETECTOR. | EM | EGRESS MOTION DETECTOR. | S | E | - EXISTING TO REMAIN |
| | FUSED DISCONNECT. | M | 20A, 120V-1ø DUPLEX RECEPTACLE FOR MICROWAVE, | | AIR DUCT TYPE SMOKE DETECTOR REMOTE INDICATING LIGHT. | PL | POWER LOCK | | ER | - EXISTING TO BE RELOCATED |
| 7 | | | LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | | SUBSCRIPT INDICATES FAN SYSTEM. | AA | AUDIBLE ALARM | | F GF | FLOOR MOUNTED.GROUND FAULT CIRCUIT INTERUPTER. |
| | NON FUSED DISCONNECT. | | 20A, 120V-10 DIRECT CONNECTION FOR BUILT-IN OVEN, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | | FIRE ALARM HORN. | GB | GLASS BREAK DETECTOR | | IG | - ISOLATED GROUND TYPE. |
| | HI OR LOW VOLTAGE FUSE. | E | 15A, 120V/208V-1Ø DUPLEX RECEPTACLE FOR EXHAUST FAN, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | | FIRE ALARM BELL. | M | SECURITY SYSTEM MONITOR | | МН | - MOUNTING HEIGHT. |
| | | | 40A, 120V/208V-1ø DIRECT CONNECTION FOR BUILT-IN | | FIRE ALARM STROBE | | ALARM SOUNDER PANIC ALARM | | N NI | EXISTING TO BE REPLACED WITH NEWNIGHT LIGHT |
| | CUSTOMER OR UTILITY ENERGY METER. | | COOKTOP, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS. | | VOICE COMMUNICATION SPEAKER (CEILING MOUNTED) | SA | SECURITY ALARM FOR MECHANICAL EQUIPMENT | | R | - EXISTING TO BE REMOVED |
| | ELECTRICAL ORGANIZATO | | ICATION SYSTEMS | E\d | COMBINATION FIRE HORN/STROBE LIGHT. | $ \qquad \qquad$ | MOTION DETECTOR. | | RE | - EXISTING RELOCATED AT THE NEW LOCATION |
| <u> </u> | ELECTRICAL GROUNDING SYSTEM. | W ⊲ 1F−2 | COMBINATION DATA/TELEPHONE OUTLET. | (SV) | SUPERVISED VALVE — SPRINKLER. SUBSCRIPT 'P' DENOTES STANDPIPE. | © | DOOR/WINDOW CONTACT. | | S | - SURGE SUPRESSION TYPE DEVICE. |
| 3-LA | LIGHTNING, ARRESTORS(03) AND GROUNDING. | L | SECOND DIGIT (NUMBER 2.") INDICATES QUANTITY OF TELEPHONE CABLES AND TELEPHONE JACKS IN OUTLET. | FS | SPRINKLER FLOW SWITCH. | | CCTV CAMERA | | | LOCKING TYPE (TWISTLOCK).MOUNT IN VERTICAL FACE. |
| = | DANIEL DOADD (CUREACE MOUNT) | | FIRST DIGIT (NUMBER 1.") INDICATES QUANTITY OF DATA CABLES | PS | SPRINKLER LOW PRESSURE SWITCH. | | CEILING MOUNTED DOME CAMERA | | wg | - WIREGUARD. |
| | PANELBOARD (SURFACE MOUNT). PANELBOARD (RECESSED MOUNT). | | AND DATA JÀCKS IN OUTLET. IF FIRST DIGIT INCLUDES A SUFFIX "F", IT INDICATES "FITLINXX" DATA CABLE AND OUTLET. | (b) | MAGNETIC DOOR HOLD OPEN DEVICE. | P | DOME LIGHT | | WP | - WEATHERPROOF TYPE. |
| | ENCLOSED BUS ASSEMBLY. | | ALL JACKS UNDER ONE(1) COMMON PLATE. REFER TO FLOOR PLANS FOR CABLE AND JACKS QUANTITIES. | © | RECESSED FIRE ALARM SPEAKER (CEILING MOUNTED). | EC | EMERGENCY CALL ASSISTANCE HORN | | Z PTZ | – MOUNT 42" (1065mm) A.F.F.– PAN, TILT, ZOOM |
| | CABLE LADDER OR TRAY. | | SUBSCRIPT "W" INDICATES C/W VOICE JACK FOR WALL MOUNTED TELEPHONE AT 1500mm A.F.F. | Ø | RECESSED FIRE ALARM SPEAKER AND STROBE (CEILING MOUNTED). | • | DOOR CONTACT | | | |
| RECEPTAC | CLE/DIRECT_CONNECTIONS | | SUBSCRIPT "P" INDICATES PAY TELEPHONE. | H(F) | FIRE ALARM SPEAKER (WALL MOUNTED). | MECHANIC | CAL WIRING SYSTEMS | | ACB | - AIR CIRCUIT BREAKER. |
| Ф | 120V, 2P, 3W, 15A DUPLEX RECEPTACLE (CSA #5 SERIES). | | DATA OUTLET — COMPUTER OR PRINTER. | H© | FIRE ALARM SPEAKER AND STROBE (WALL MOUNTED). | Image: Control of the | MECHANICAL EQUIPMENT/MOTOR. | | ARMS | - ARCFLASH REDUCTION MAINTENANCE MODE |
| # | 120V, 2P, 3W, 15A SPLIT TYPE DUPLEX RECEPTACLE. | • | TELEPHONE - SUBSCRIPT "P" INDICATES PAY TELEPHONE. | (F) | SURFACE FIRE ALARM SPEAKER (CEILING MOUNTED). | | DISCONNECT SWITCH (UNFUSED). SUBSCRIPT INDICATES SIZE. SUBSCRIPT 'N' INDICATES COMPLETE WITH SOLID NEUTRAL. | | ATS | - AUTOMATIC TRANSFER SWITCH. |
| ₩ ₩ | 120V, 2P, 3W, 15/20A T-SLOT TYPE DUPLEX RECEPTACLE. CSA#5 SERIES FOR OFFICE AND GENERAL AREAS. | | WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET. | | SURFACE FIRE ALARM SPEAKER AND STROBE (CEILING MOUNTED). | | DISCONNECT SWITCH (FUSED). SUBSCRIPT INDICATES FUSE RATING. | l I | AV CO | AUDIO VISUAL.CARBON MONOXIDE |
| | 120V, 2P, 3W, 15A FOUR PLEX RECEPTACLE 2. DUPLEXES | W | WIRELESS ACCESS POINT | | FIRE ALARM HANDSET. | <u> </u> | SUBSCRIPT 'N' INDICATES COMPLETE WITH SOLID NEUTRAL. MANUAL STARTER COMPLETE WITH PILOT LIGHT. | E N | СМ | - COFFEE MAKER. |
| <u> </u> | UNDER COMMON PLATE). | WIFI | WIFI | | FIRE ALARM HANDSET. | | MAGNETIC STARTER. | | CR | - CASH REGISTER. |
| Ф | 120V, 2P, 3W SINGLE RECEPTACLE (CSA #5 SERIES). | | WII I | | FIRE ALARM SPEAKER AND SILENCE SWITCH. | | COMBINATION MAGNETIC STARTER. | C A | CS DP | COMMUNICATION STATION.DISTRIBUTION PANEL. |
| | 250V, 2P, 3W SINGLE RECEPTACLE (CSA #6 SERIES). | INTERCO | M_SYSTEM | F.A.Z.1. | FIRE ALARM ZONE. NUMBER INDICATES ZONE NUMBER. | TS | TIME SWITCH. | T I | EVR | - ELECTRONIC VOLTAGE REGULATOR. |
| | 125/250V, 3P, 4W SINGLE RECEPTACLE (CSA #14 SERIES). | <u> </u> | CEILING MOUNTED SPEAKER. | ELECTRIC | CAL CAR CHARGING STATION | Р | FAN STARTER WITH PILOT LIGHT AND TIMER. | N S | FACP | - FIRE ALARM CONTROL PANEL |
| | 250VDC/600VAC, 3P, 4W SINGLE RECEPTACLE (CSA #L17 SERIES). 1 PHASE, 3W DIRECT CONNECTION (L, N, G) OR (L1, L2, G). | 4 | INTERCOM MASTER STATION | ₽ | PROVIDE SINGLE GANG BOX, 21mmC CONDUIT AND 20A, 120V-1ø (5-20R) RECEPTACLE FOR 'TYPE 1' ELECTRICAL CAR | TELEVISIO | N AND A.V. | | FAAP FR | FIRE ALARM ANNUNCIATOR PANELFRIDGE. |
| | 3 PHASE, 4W DIRECT CONNECTION (L1, L2, L3, G). | $\boxed{}$ | INTERCOM STATION | | CHARGE STATION. LOCATED AS SHOWN ON FLOOR PLANS. PROVIDE TWO GANG BOX, 27mmC CONDUIT AND 50A, 208V-1ø | € | TELEVISION OUTLET. | | GEN | - ELECTRICAL GENERATOR. |
| 0 | 3 PHASE, 5W DIRECT CONNECTION (L1, L2, L3, N, G). | | AND SOUND SYSTEM | | (5-60R) RECEPTACLE FOR 'TYPE 2' ELECTRICAL CAR CHARGE STATION. LOCATED AS SHOWN ON FLOOR PLANS. | (AV) | AUDIO/VIDEO BACK BOX | | HP | - HYDRO POLE |
| (A) | 1 PHASE, 4W DIRECT CONNECTION (L1, L2, N, G). | | RECESSED CEILING MOUNTED SPEAKER. COMBINATION WALL MOUNTED SPEAKER AND TALK-LISTEN | [V3] | PROVIDE SINGLE GANG BOX, 21mmC CONDUIT AND BLANK COVER FOR 'TYPE 1' ELECTRICAL CAR CHARGE STATION ROUGH-IN. | CLOCK SY | | | HWD | HOT WATER DISPENSERICE MACHINE |
| | FLOOR FLUSH MOUNTED OUTLET BOX C/W ONE(1) 120V, 2P, 3W, 15A DUPLEX RECEPTACLE, ONE(1) DATA OUTLET AND | | PRIVACY SWITCH. | | LOCATED AS SHOWN ON FLOOR PLANS. PROVIDE TWO GANG BOX, 27mmC CONDUIT AND 20A, 120V-1ø | <u>()</u> | CLOCK, SINGLE FACE WALL MOUNTED. | | LS | - LIFE SAFETY. |
| | ONE(1) CABLE TV OUTLET. | | SPEAKER MOUNTED IN ROOM MODULAR CONTROL PANEL. RECESSED WALL MOUNTED SPEAKER. | | (5-20R) RECEPTACLE FOR 'TYPE 1' MODIFIED TO ACCOMMODATE 'TYPE 2' ELECTRICAL CAR CHARGE STATION IN | MISCELLAN | | | мсв | - MINIATURE CIRCUIT BREAKER. |
| <u></u> | FLOOR MOUNTED STATIC GROUNDING RECEPTACLE | | RECESSED CEILING MOUNTED SPEAKER COMPLETE WITH |] | FUTURE. LOCATED AS SHOWN ON FLOOR PLANS. | | ROOM MODULAR CONTROL PANEL. | | мссв | - MOULDED CASE CIRCUIT BREAKER. |
| | | | HANDSFREE MIC. AND INTERCONNECTED TO WALL MOUNTED EMERGENCY PULLCORD ALARM DEVICE. | | | NM S | NURSE CALL MASTER CONTROL WITH HANDSET | | MSB | MAIN SWITCH BOARD (SERVICE ENTRANCE RATED). |
| | MULTI-SERVICE OUTLET BOX | H ₍₄₎ | SURFACE WALL MOUNTED SPEAKER. | | | 1 | FIRE ALARM SPEAKER AND STROBE (WALL MOUNTED). | | NLS | - NON LIFE SAFETY. |
| | | <u> </u> | SURFACE CEILING MOUNTED SPEAKER. | | | | 2" (53mm) CONDUIT SLEEVE. SHOWN ON PLAN. SEE SPEC. FOR DETAILS. | | PC PF | – PHOTOCOPIER.– POWER FACTOR CORRECTION CAPACITOR BANKS. |
| | ELECTRIC HAND DRYER. NOVA CAT. No. 780-000 WHITE RECESSED UNIT 9.6 AMPS, 208V. 1 PHASE, 2000 WATTS | CS | P.A. CALL SWITCH OR HANDSET. | | | | ELECTRIC BASEBOARD HEATER | | PR | - PRINTER. |
| | COMPLETE WITH FIXED NOZZEL AND HEAVY DUTY VANDAL—RESISTANT GRILLE. MOUNT 2'—8" (0.91m) AFF. TO BOTTOM OF UNIT. UNLESS OTHER WISE NOTED. PANELBOARD | A | ADMINISTRATIVE CONSOLE UNIT OUTLET. | | | (T) | THERMOSTAT | | SB | - SMARTBOARD. |
| | BREAKERS (15A.2P.) TO BE GROUND FAULT TYPE. | | PUBLIC ADDRESS SPEAKER, TYPE '1' AS SPECIFIED. |] | | • | PUSH BUTTON | | SP SPD | SPLITTER.SURGE PROTECTIVE DEVICE. |
| | DIV 16 TO PROVIDE ELECTRIC HAND DRYER | | LOCAL VOLUME CONTROLLER. |] | | • | OPEN-STOP-CLOSE PUSH BUTTON | | TR | - LOW VOLTAGE TRANSFORMER. |
| HD | AS FOLLOWING: BLAST BY COMAC CORPORATION, 1450W, 120V, 1PH. | AMP | AMPLIFIER. MICROPHONE OUTLET - DEVICE AND COVERPLATE BY OTHERS. |]] | | • | OPEN-STOP-CLOSE POSH BUTTON | | TV | - TELEVISION. |
| | COORDINATE COLOR/FINISH WITH ARCHITECT. | W | PROVIDE 2-GANG FLUSH BACKBOX AND CONCEALED EMPTY CONDUIT. | | | | TRAFFIC LIGHT | | TVSS | - TRANSIENT VOLTAGE SURGE SUPPRESSOR. |
| (T) | THERMOSTAT. | | | | | EMERGENO | CY CALL ASSISTANCE | | UPS VM | UNINTERRUPTIBLE POWER SUPPLY.VENDING MACHINE. |
| | DIRECT CONNECTION VOLTAGE INFORMATION INDICATION BY | | | | | ANN | ANNUNCIATOR PANEL COMPLETE WITH DUTY STATION. | | | - UTILITY TRANSFORMER. |
| N | CIRCUIT No. | | | | | • | EMERGENCY CALL BUTTON. | | | |
| T E | 2. UNLESS NOTED OTHERWISE MOUNTING HEIGHT OF ALL OUTLETS IS 455mm (18") A.F.F. | | | | | | EMERGENCY CALL ASSISTANCE HORN. | | | |
| S | 3. UNLESS NOTED OTHERWISE (IE: 30A, 20A) ALL RECEPTACLES/DIRECT CONNECTIONS RATED FOR 15A. | | | | | | CEILING MOUNTED DOME LIGHT. | | | |
| | | | | | | | WALL MOUNTED DOME LIGHT. | | | |
| | | | | ī | | PL | "PUSH TO LOCK" PUSH BUTTON. | I | | |

M "WAVE TO LOCK" BUTTON.



AFF ABOVE FINISH FLOOR

AFG ABOVE FINISH GRADE

ADJ ADJUSTABLE ARCH ARCHITECTURAL

BLDG BUILDING

BOT BOTTOM BEL BELOW

CLG CEILING

CONSTR CONSTRUCTION
CONTR CONTRACTOR
CONT CONTINUOUS

EL ELEVATION ELEC ELECTRICAL

ELEVATION

EQUAL

FLOOR

GROUND

INSIDE DIAMETER

GRADE

INCH

LENGTH LIGHT

MFG MANUFACTURER

NOM NOMINAL NTS NOT TO SC

S SOUTH
SCHED SCHEDULE
SECT SECTION
SHT SHEET
SIM SIMILAR
SPEC SPECIFICATION
STD NORMAL
STR STRUCTURE
TYP TYPICAL

WITH

W/O WITHOUT WP WATERPROOF

XFMR TRANSFORMER

SAME AS ABOVE

BOLLARD / PATH / STEP

CHARACTER

EFFECT / EXISTING

DOWNLIGHT

INGRADE

INDIRECT

N NICHE OR COVE

[NOT USED]

[NOT USED] TROFFER

U UNDERWATER

VANDAL

X EXIT / EMERGENCY

Z [USED IN ZONING]

CLOSE CEILING

PENDANT

TABLE LAMP

W WALL MOUNTED

POLE / PARKING

JUNCTION BOX

C(K)LEAN / GASKETED

MULTILAMP / MILLWORK

SURFACE/STRIPLIGHT

NORTH

NUMBER

NOT TO SCALE ON CENTER OUTSIDE DIAMETER

HGT HEIGHT

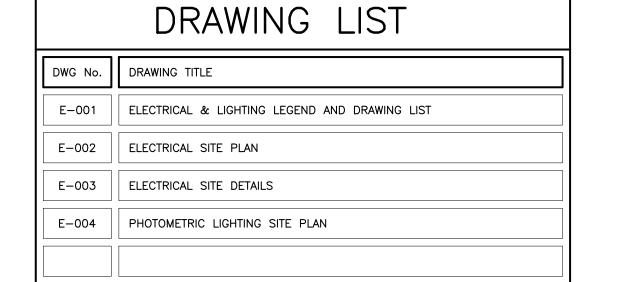
HORIZ HORIZONTAL

INFO INFORMATION INT INTERIOR INTERIOR

FLUOR FLUORESCENT FT FOOT OR FEET

EXTERIOR

BO BY OTHERS





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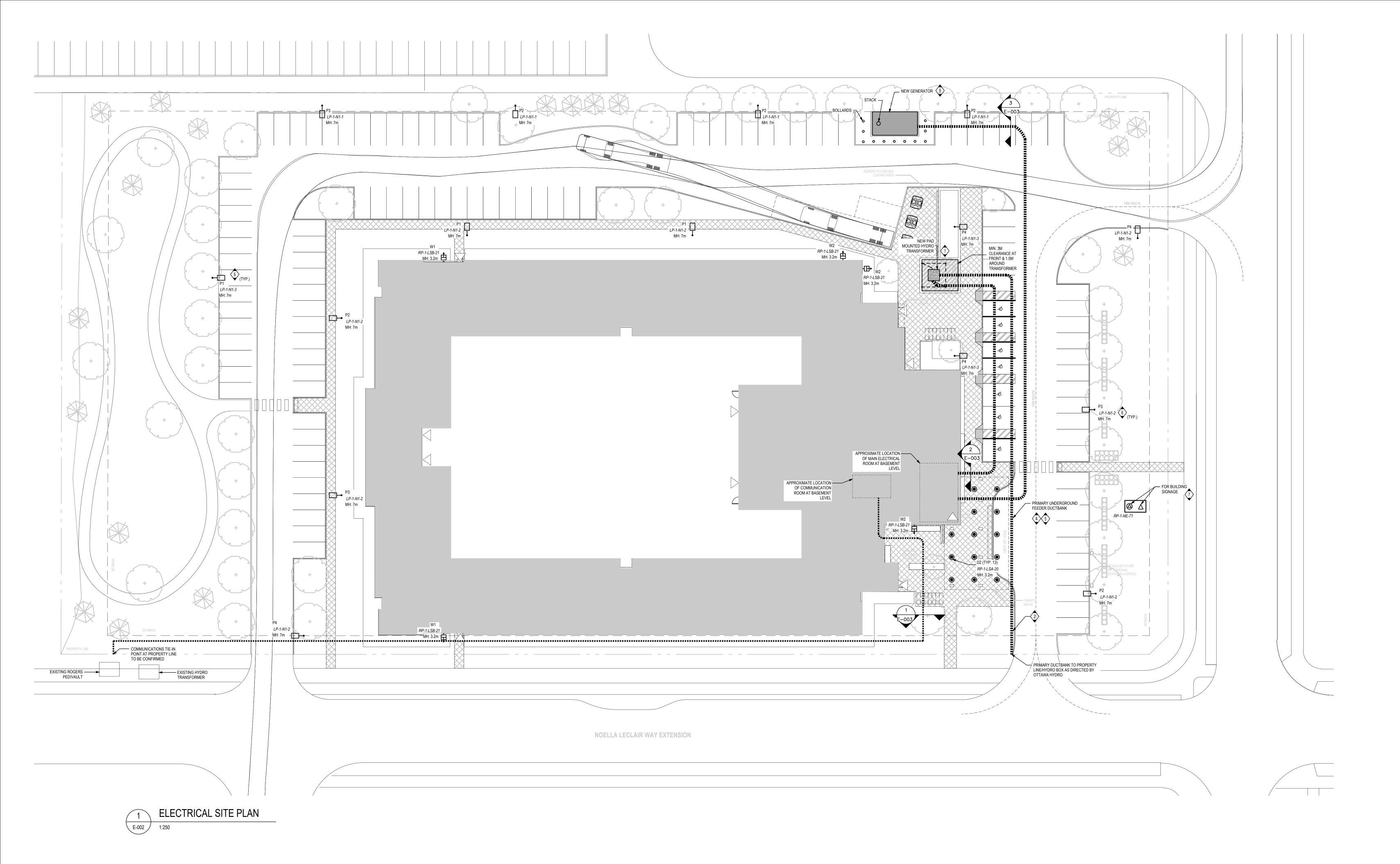
ELECTRICAL & LIGHTING LEGEND AND DRAWING

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architect before proceeding.

As Noted job number: All-22018422-A0

E-001



GENERAL NOTES

TRANSFORMER INTO BUILDING.

- CONTRACTOR SHALL BE GENERALLY RESPONSIBLE FOR SUPPLY AND INSTALLATION OF THE FOLLOWING, INCLUDING BUT NOT LIMITED TO:
 CONCRETE-ENCASED PRIMARY DUCTBANK FROM PAD-MOUNTED SERVICE TRANSFORMER TO PROPERTY LINE/EXISTING HYDRO BOX (HIGH VOLTAGE CABLES TO BE PROVIDED BY OTTAWA HYDRO AS PART OF
- UTILITIES),

 PRIMARY DUCTBANK MANHOLE,

 TRANSFORMER VAULT INCLUDING GROUNDING GRID, PROTECTIVE BOLLARDS, ETC., (TRANSFORMER TO BE PROVIDED BY OTTAWA HYDRO, PRIMARY AND SECONDARY TERMINATIONS BY OTTAWA HYDRO),

 CONCRETE-ENCASED SECONDARY DUCTBANK AND SERVICE CONDUCTORS FROM PAD-MOUNTED SERVICE

Montgomery Sisam Architects Inc.

197 Spadina Avenue, Toronto, Ontario M5T 2C8 montgomerysisam.com Tel 416.364.8079 Fax 416.364.7723

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- PROVIDE 3 PHASE TRANSFORMER FOUNDATION AS PER OTTAWA HYDRO STANDARD. CONFIRM FOUNDATION SPECIFICATION WITH OTTAWA HYDRO UTILITIES PRIOR TO PURCHASE/INSTALLATION. PROVIDE TRANSFORMER GROUND GRID USING 2/0 BARE STRANDED COPPER & 4-10FT x 3/4" STEEL GALVANIZED GROUND RODS AS PER OTTAWA HYDRO STANDARD. ENSURE 2 GROUNDING TAILS ARE LEFT IN THE FOUNDATION WITH SUFFICIENT LENGTH OF 2/0 BARE COPPER WIRE FOR FROST LOOP & THE CONNECTION TO THE GROUNDING BAR ON OTTAWA HYDRO UTILITIES INSTALLED TRANSFORMER. REFER TO DETAILS ON E-003 FOR PROTECTIVE BOLLARDS, GROUNDING REQUIREMENTS.
- REFER TO OTTAWA HYDRO STANDARD FOR CONCRETE ENCASED DUCT BANK & 12-403 FOR DIRECT BURRIED CONCRETE ENCASEMENT OF DUCTS TO BE STOPPED 3' FROM TRANSFORMER FOUNDATION. COORDINATE INSTALLATION OF PRIMARY DUCTS & FOUNDATION WITH OTTAWA HYDRO UTILITIES AND GIVE MINIMUM 5

- 5 CONTRACTOR SHALL PROVIDE THE ENTIRE PRIMARY & SECONDARY DUCT BANKS IN CONCRETE ENCASEMENT UP TO THE PROPERTY LINE. REFER TO DETAIL IN DRAWING E-003.
- POLE MOUNTED LIGHTING WITH PHOTOCELLS. REFER TO EXTERIOR LIGHTING CONTROL WIRING DIAGRAM ON E-003 FOR DETAILS.
- PROVIDE 15A,120V, DIRECT CONNECTION VIA CONTROL CIRCUIT INDICATED FOR PERMANENT BUILDING SIGNAGE. ALSO INCLUDE FOR 1" EMPTY PVC CONDUIT BACK TO COMMUNICATIONS ROOM FOR FUTURE DATA CABLING.
- USE DIRECT BURIED "CABLE IN CONDUIT" INSTALLATION FOR THE INSTALLATION OF POWER AND CONTROL WIRING FOR OUTDOOR SIGNAGES. REFER TO DETAIL 4 ON DRAWING E1.02.
- COORDINATE INSTALLATION WITH GENERAL CONTRACTOR. ENSURE MIN. 1M AWAY FROM TANKS, SPACED NO MORE THAN 1350MM APART AND ENSURE CORNER COVERAGE.

DRAWING NOTES

BUSINESS DAYS FOR INSPECTION PRIOR TO BACKFILLING.

CONTRACTOR SHALL PROVIDE SECONDARY CABLES FROM THE TRANSFORMER TO THE MSB. PROVIDE SUFFICIENT LENGTH OF WIRE IN THE TRANSFORMER BASE FOR A PROPER FROST LOOP AND INSTALL TO THE SECONDARY SPADES.

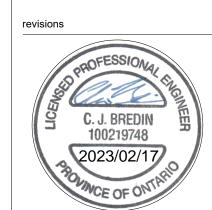
PRIMARY CABLES SUPPLIED & INSTALLED BY OTTAWA HYDRO UTILITIES. REFER TO OTC IN SPECIFICATION 26 24 01.01 APPENDIX FOR SCOPE DELINEATION.

APPROXIMATE LOCATION OF NEW GENERATOR. REFER TO SPECIFICATIONS. PROTECTIVE BOLLARDS FOR GENERATOR WILL BE PROVIDED UNDER ARCHITECTURAL SCOPE. REFER TO ARCHITECTURAL DRAWINGS AND

LIGHTING CONDUIT IN RACEWAY (PVC CONDUIT) TO BE 600MM DEPTH (NO CONCRETE); CROSS OTHER SERVICES PERPENDICULAR AND MAINTAIN 300MM CLEARANCE. ARBITRARY GROUPING SHOWN FOR POLE FIXTURES; PRESUME EACH FEED FROM THE BUILDING CAN HANDLE LOAD AND VOLTAGE DROP BUT WILL NEED TO BE

ONE CIRCUIT FOR EACH RECEPTACLE, AND GROUP OF BOLLARDS TO CLOSEST PANEL. TRENCH DETAIL FOR COURTYARD BELOW, 450MM DEPTH.

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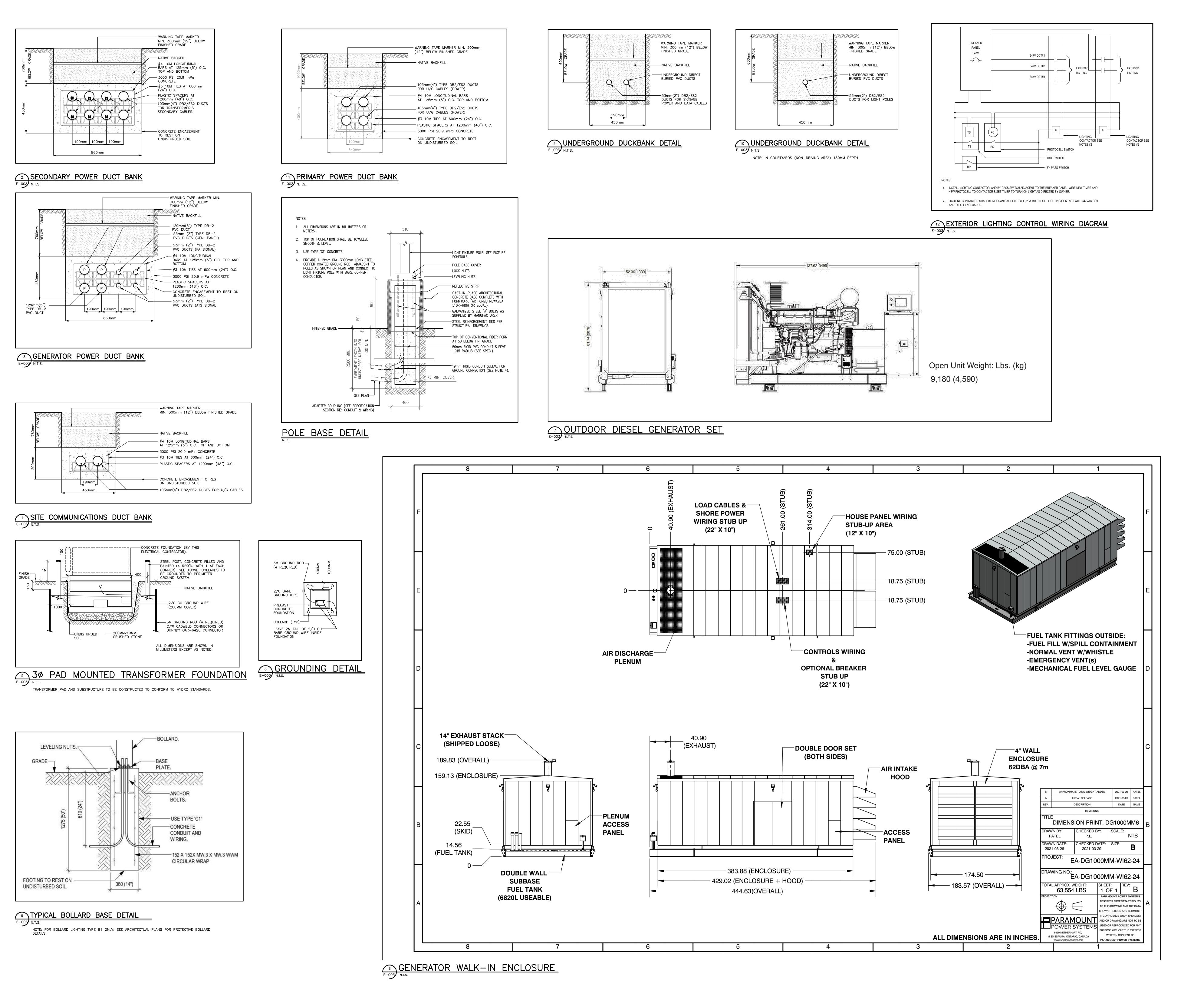
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drawing number:

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E-003

ELECTRICAL SITE DETAILS

As Noted

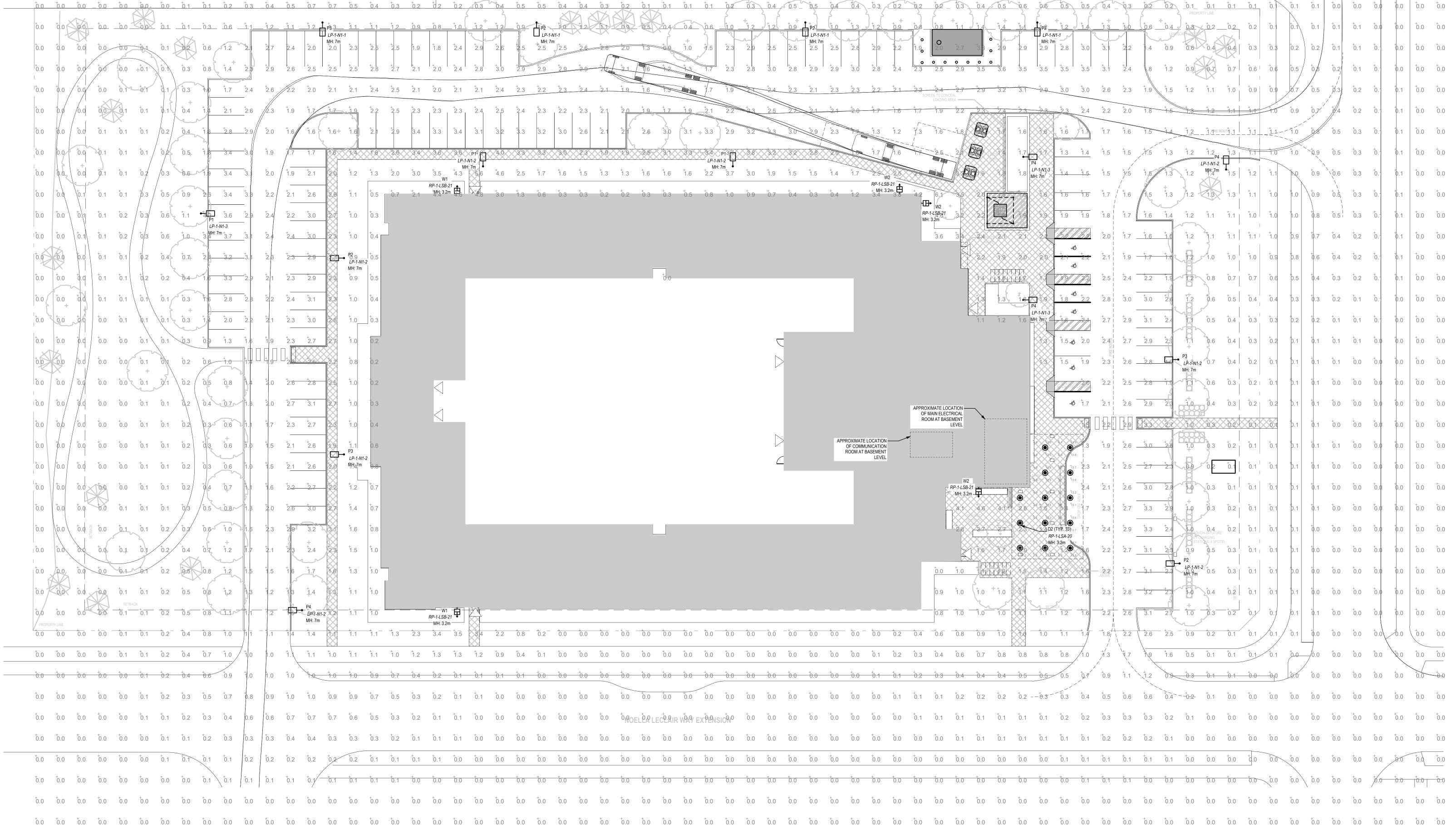
ISSUED FOR SITE PLAN

specifications are the property of the architect.

The contractor shall verify all dimensions and

information on site and report any discrepancy to

architect before proceeding.



1 PHOTOMETRIC LIGHTING SITE PLAN

| Luminaire Schedule | | | | | | | | | |
|--------------------|-----------------------|--------|-------------------------------------|-------|-----------|-----------|-------------|-------|--|
| Qty | Qty Label Arrangement | | Description | | Luminaire | Luminaire | Arrangement | Total | |
| | | | | | Lumens | Watts | Watts | Watts | |
| 13 | D1 | Single | LFR-4RD-M-15L40K8MD-DM1_LFR-4RD-T-S | 0.850 | 1497 | 11.8 | 11.8 | 129.8 | |
| 2 | W1 | Single | RWL1-48L-25-4K7-3 | 0.850 | 3731 | 28 | 28 | 56 | |
| 3 | W2 | Single | RWL1-48L-25-4K7-4W | 0.850 | 3679 | 28 | 28 | 84 | |
| 3 | P1 | Single | VP-1-160L-100-4K7-2 | 0.850 | 13963 | 97.2 | 97.2 | 291.6 | |
| 5 | P2 | Single | VP-1-160L-100-4K7-3 | 0.850 | 14109 | 97.2 | 97.2 | 486 | |
| 3 | P3 | Single | VP-1-160L-100-4K7-4W | 0.850 | 13847 | 97.2 | 97.2 | 291.6 | |
| 4 | P4 | Single | VP-1-160L-100-4K7-5QW | 0.850 | 14178 | 97.2 | 97.2 | 486 | |

| Calculation Summary | | | | | | | | | | | |
|------------------------------|-------|------|------|-----|---------|---------|---------|---------|--|--|--|
| Label | Units | Avg | Max | Min | Avg/Min | Max/Min | PtSpcLr | PtSpcTb | | | |
| All CalcPts Extending Out To | Fc | 0.74 | 6.1 | 0.0 | N.A. | N.A. | 10 | 10 | | | |
| Zero Foot-Candles | | | | | | | | | | | |
| Main Canopy | Fc | 9.85 | 17.3 | 4.9 | 2.01 | 3.53 | 6 | 6 | | | |
| StatArea - Parking Areas | Fc | 2.28 | 4.0 | 1.0 | 2.28 | 4.00 | | | | | |

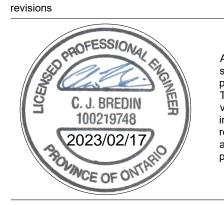
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