



DRAWING NOTES

- 1 TRANSITION FROM UTILITY OVERHEAD SERVICE TO UNDERGROUND SERVICE AT THIS LOCATION. PROVIDE WIRING IN DUCT BANK AS PER SPECIFICATIONS, ONE (1) CABLE PER DUCT TO CUSTOMER OWNED POLE ON PROPERTY AS SHOWN. ALLOW FOR AN ADDITIONAL SUFFICIENT AMOUNT OF CABLES COILED ON GROUND TO ALLOW FOR CONNECTIONS. HYDRO ONE TO MAKE FINAL CONNECTIONS AND PROVIDE TERMINATIONS AT HYDRO ONE POLE.
- PROVIDE 16.8m (55'-0") CLASS L CONCRETE POLE USI#HA-550-L-1-PG AND 200A LOAD BREAK 3 POLE GANG OPËRATED SWITCH WITH 30A FUSES. POLE TO BE BURIED MINIMUM 2.59m (8'-6") IN THE GROUND WITH ENGINEERED BASE TO SUIT EQUIPMENT WEIGHT. PROVIDE USI W SERIES ENTRY BOXES AND RUN LOAD WIRING INSIDE POLE. RUN LINE WIRING SURFACE MOUNTED ON THE BACK OF THE POLE. TRANSITION FROM OVERHEAD SERVICES TO LOAD BREAK SWITCH AND DIP BACK DOWN TO UNDERGROUND SERVICE AT THIS LOCATION. PROVIDE GROUNDING AND CABLE GUARDS AS PER SPECIFICATIONS AND AS PER OESC REQUIREMENTS.
- PROVIDE NEW CUSTOMER OWNED TRANSFORMER C/W 2108mm X 2235mm USI-E-13PS PRECAST BASE. PROVIDE PRIMARY GROUNDING AS PER OESC BULLETIN 36-10-20 FOR TAMPER RESISTANT EQUIPMENT. COORDINATE WORK WITH HYDRO ONE AND INSPECTION AUTHORITY.

GENERAL NOTES

- 1. ROUTING OF THE INCOMING BURIED SERVICES IS A PROPOSED DIAGRAMMATIC ROUTING. COORDINATE WITH CIVIL DRAWINGS, LANDSCAPE DRAWINGS, AND HYDRO ONE ONSITE PRIOR TO COMMENCING WORK TO FINALIZE ROUTING.
- 2. THE UTILITY CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A SITE MEETING WITH THE GENERAL CONTRACTOR, HYDRO ONE AND THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION OF BUILDING POWER SUPPLY INFRASTRUCTURE. THE PURPOSE OF THE MEETING IS TO COORDINATE THE WORK, REVIEW THE RESPONSIBILITIES OF HYDRO ONE THE GENERAL CONTRACTOR, THE UTILITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR TO ENSURE THAT THE INSTALLATION OF THE TRANSFORMER AND CABLE DUCTS ADHERE TO HYDRO ONE SPECIFICATIONS AND ESA REQUIREMENTS.
- 3. SITE CONDUITS FOR LIGHTING AND RECEPTACLES ARE NOT SHOWN. UTILITY AND ELECTRICAL CONTRACTORS ARE TO PROVIDE LAYOUT AND COORDINATE.
- 4. PROVIDE MINIMUM #8 AWG CONDUCTOR SIZE FOR SITE LIGHTING. ALL LIGHTING CONDUITS SHALL BE MINIMUM 53mm RIGID PVC. PROVIDE FINAL CONNECTIONS TO ELECTRICAL PANELS ONCE THEY ARE INSTALLED DURING BUILDING CONSTRUCTION.
- 5. SIZE RECEPTACLE CONDUCTORS FOR VOLTAGE DROP AT 80% CIRCUIT LOADING AND PROVIDE A MINIMUM WIRE SIZE OF #6 AWG. PROVIDE FINAL CONNECTIONS TO ELECTRICAL PANELS ONCE THEY ARE INSTALLED DURING BUILDING CONSTRUCTION.
- 6. PROVIDE A PRIMARY GROUND GRID BURIED BENEATH THE EXTERIOR OPEN PARKING AREAS OR GROUND LOOP AROUND PERIMETER OF BUILDING DEPENDING ON LOCAL SOILS RESISTIVITY AND THE RESULTS OF THE GROUND POTENTIAL RISE (GPR) STUDY. REFER TO SPECIFICATIONS.
- 7. COORDINATE MOUNTING HEIGHTS OF BUILDING MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL ELEVATION DETAILS.
- 8. SUPPLY AND INSTALL GUARDS AND STRAPS FOR PRIMARY RISERS ON HYDRO ONE POLE (HYDRO ONE TO INSTALL ON POLE).
- 9. ENSURE TRANSITION OF PRIMARY CABLE AS PER HYDRO ONE DETAILS DU-08-307 AND DU-08-302 (CONCRETE INSTALLATION NOT PERMITTED ON HYDRO ONE OWNED POLES).

ELECTRICAL

O,cc,	DOWNLIGHT FIXTURE, LETTER DENOTES TYPE.
'вв' Q	WALL MOUNTED FIXTURE, LETTER DENOTES TYPE.
'1-AF2' ■	EXTERIOR LIGHT STANDARD FIXTURE. LETTER DENOTES TYPE.
Ф	15A, 120V, DUPLEX GFI RECEPTACLE C/W WEATHER PROOF ENCLOSURE.
×	JUNCTION BOX.
•	HARD WIRED CONNECTION TO EQUIPMENT.
	U/G RACEWAY FOR COMMUNICATION SERVICES.
	U/G RACEWAY FOR POWER SERVICES.
[U/G RACEWAY TO BASE BUILDING ELECTRICAL ROOM FOR FUTURE CARD ACCESS.
CA	CARD ACCESS (CONDUIT/BACK BOX ONLY, DEVICES AND WIRING BY OTHERS).
EVC	ELECTRICAL VEHICLE CHARGING STATION. PROVIDE 1-53mmC (PWR) AND 1-53mmC (COMM).

ABBREVIATIONS:

HT – HEIGHT GROUND FAULT INTERRUPTER WEATHER PROOF U.O.N. - UNLESS OTHERWISE NOTED N.T.S — NOT TO SCALE

N.I.C. - NOT IN CONTRACT

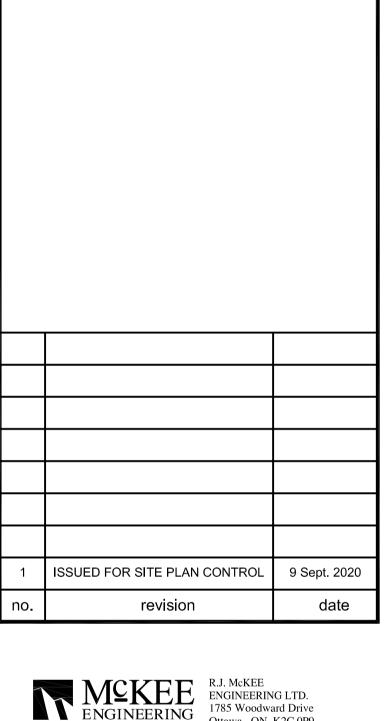
C/W - COMPLETE WITH U/G - UNDER GROUND POW - POWER SERVICES COMMS - COMMUNICATION SERVICES AFF - ABOVE FINISHED FLOOR

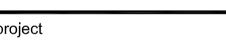
ELECTRICAL DRAWING LIST

DRAWING No.	DESCRIPTION							
SP-E02	ELECTRICAL: LEGEND, DRAWING LIST & SITE PLAN ELECTRICAL: SCHEDULES ELECTRICAL: DETAILS							



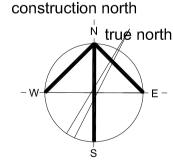


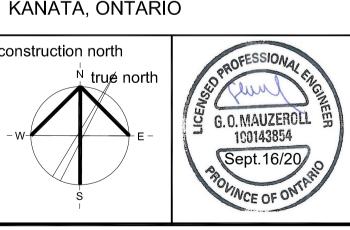




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CANADA

drawing title **ELECTRICAL:** LEGEND, DRAWING LIST & SITE PLAN

scale drawn by AS SHOWN date checked by Jan. 2020 project drawing number number

DO NOT SCALE DRAWINGS.

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.

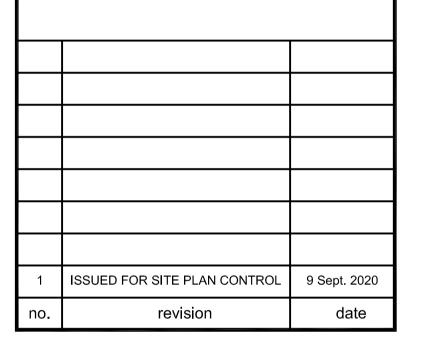
	EXTERIOR LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	LAMPS	LED DIMMING DRIVER	DIMMING RANGE	VOLT	MOUNTING	REMARKS		
1-AF4	POLE MOUNTED FIXTURE EQUAL TO GE 'EALS-03' SERIES	1-116W LED	0-10V	10-100%	347	SQUARE ALUMINUM POLE 10.5m ABOVE GRADE	- 14500 LUMENS, 4000K, 70 CRI, TYPE IV (F4AH) DISTRIBUTION - FULL CUT-OFF, BACK LIGHT SHIELDING - FACTORY INSTALLED DIMMING OCCUPANCY SENSOR - BLACK, MOUNTING HT. INCLUDES HT. OF BASE.		
I AI Z	POLE MOUNTED FIXTURE EQUAL TO GE 'EALS-03' SERIES	1-116W LED	0-10V	10-100%	347	SQUARE ALUMINUM POLE 10.5m ABOVE GRADE	- 15100 LUMENS, 4000K, 70 CRI, TYPE II (F2AN) DISTRIBUTION - FULL CUT-OFF, BACK LIGHT SHIELDING - FACTORY INSTALLED DIMMING OCCUPANCY SENSOR - BLACK, MOUNTING HT. INCLUDES HT. OF BASE.		
1-AC2	POLE MOUNTED FIXTURE EQUAL TO GE 'EALS-03' SERIES	1-50W LED	0-10V	10-100%	347	SQUARE ALUMINUM POLE 5.25m ABOVE GRADE	 7500 LUMENS, 4000K, 70 CRI, TYPE II (C2AN) DISTRIBUTION FULL CUT-OFF, BACK LIGHT SHIELDING FACTORY INSTALLED DIMMING OCCUPANCY SENSOR BLACK, MOUNTING HT. INCLUDES HT. OF BASE. 		
BB	BUILDING MOUNTED FIXTURE EQUAL TO GE 'EWLS' SERIES	38W LED	0-10V	10-100%	347	SURFACE WALL MOUNTED 6096mm AFF U.O.N.	- 4000 LUMENS, 4000K, 70 CRI, ASYMMETRIC FORWARD DISTRIBUTION - FULL CUT-OFF, BLACK FINISH		
CC	CANOPY LIGHT FIXTURE TBD	LED	0-10V	10-100%	347	RECESSED			

NOTE:
PROVIDE HAND-HELD WIRELESS CONFIGURATION REMOTE FOR SUCCESSFUL IMPLEMENTATION OF PROGRAMMING, A MINIMUM OF TWO (2) HAND-HELD REMOTES ARE REQUIRED.

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Compound North	+	1.0 fc	2.8 fc	0.2 fc	14.0:1	5.0:1
Compound South	+	0.9 fc	2.8 fc	0.1 fc	28.0:1	9.0:1
Parking	+	1.4 fc	7.8 fc	0.3 fc	26.0:1	4.7:1
Property Line	+	0.1 fc	0.4 fc	0.0 fc	N/A	N/A
Snow Storage	+	0.4 fc	1.0 fc	0.1 fc	10.0:1	4.0:1
Trailer Parking	+	0.7 fc	1.6 fc	0.1 fc	16.0:1	7.0:1





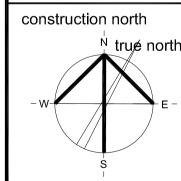




project

PUROLATOR DISTRIBUTION KANATA

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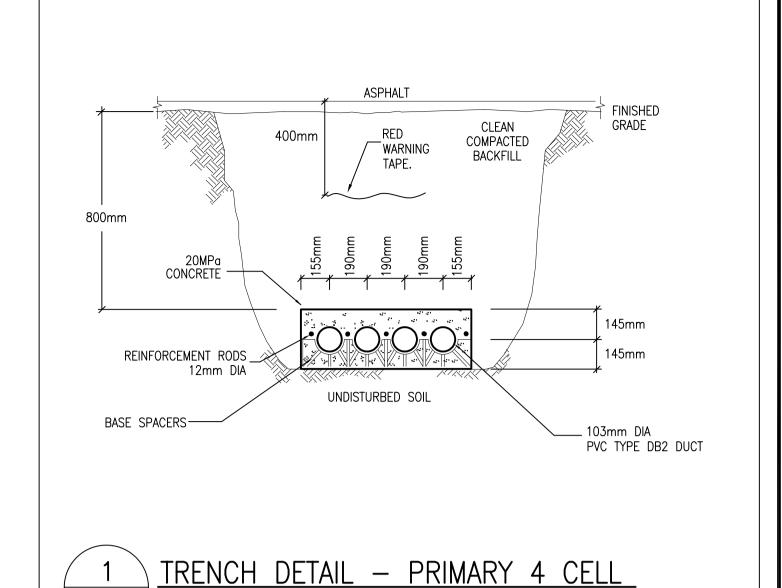




drawing title ELECTRIC SCHEDULES	
scale N.T.S.	drawn by _{N.H.}
date Jan. 2020	checked by G.O.M.
project number	drawing number
20029	SP-E02
AND NOTIFY THE ARC	RIFY ALL DIMENSIONS CHITECT OF ANY

DISCREPANCIES BEFORE WORK COMMENCES.

DO NOT SCALE DRAWINGS.



BACKFILL

COMPACTED

-51mm THICK PRESSURE TREATED WOOD PLANKING

(CONTROLS & BP-GS1 POWER)
DIRECT BURIED CONDUIT

MIN. SPACING SHOWN.

WARNING

TAPE.

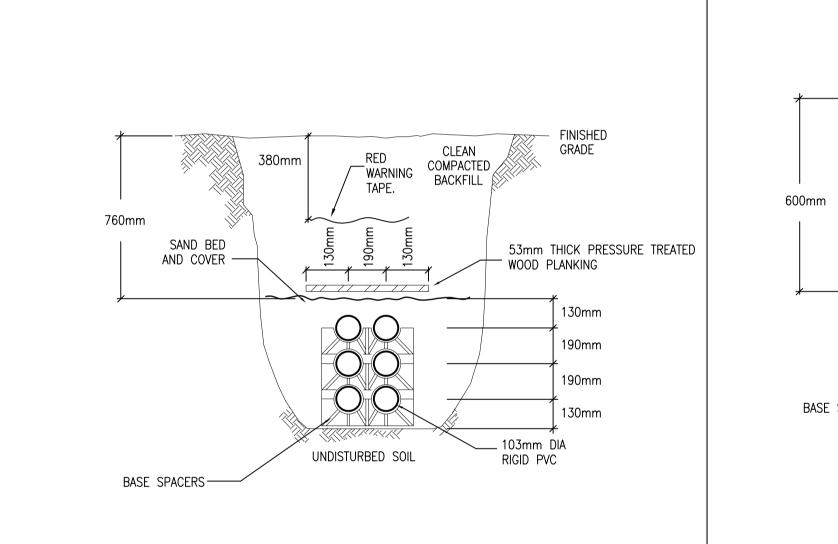
UNDISTURBED SOIL

SP-E03 CONCRETE ENCASED

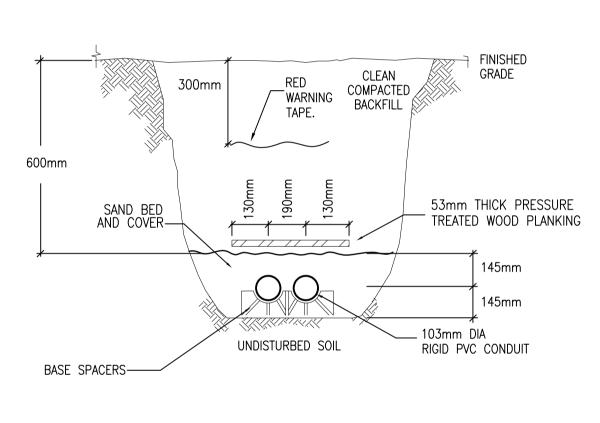
760mm

SAND BED AND COVER

(GENERATOR POWER)
DIRECT BURIED CONDUIT
MIN. SPACING SHOWN.



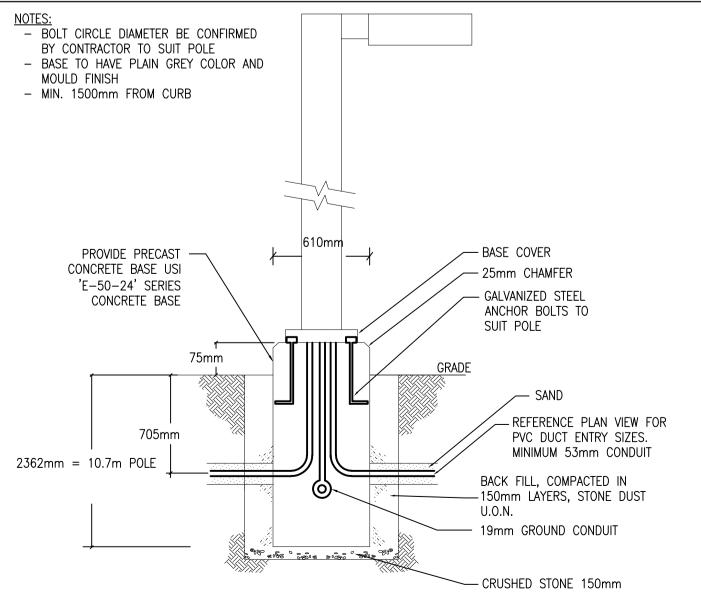
2 TRENCH DETAIL - SECONDARY 6 CELL DIRECT BURIED

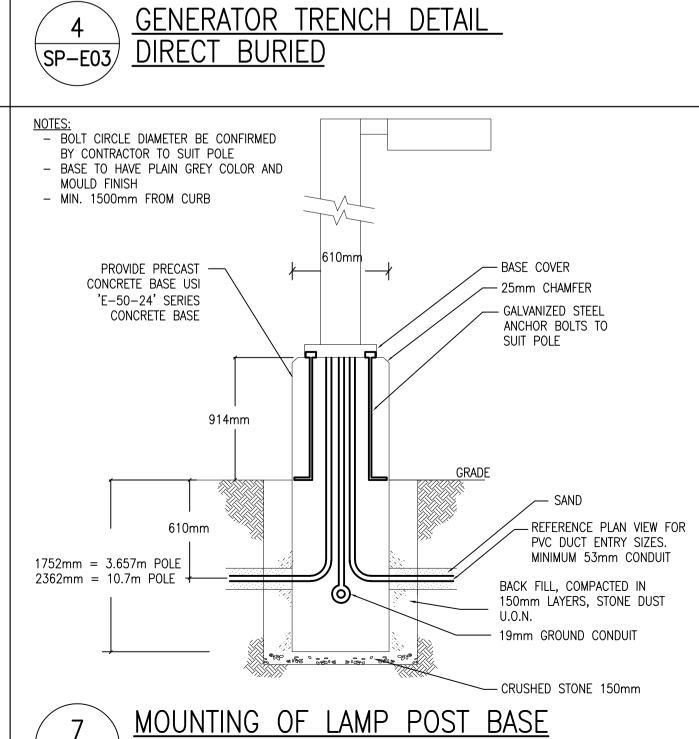


SEPARATE CONDUIT MINIMUM OF 300mm FROM HYDRO AND OTHER TELECOMMUNICATION SERVICES.



TRENCH DETAIL - COMMUNICATION 2 CELL DIRECT BURIED

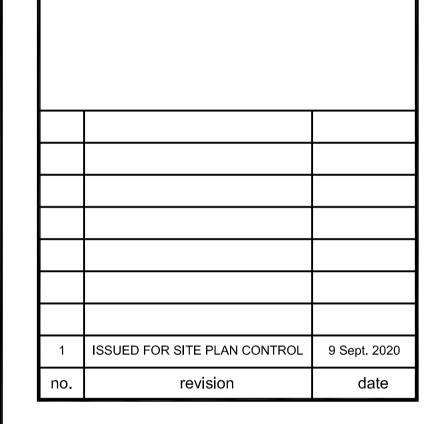




PARKING LOT AREAS (NO CURBS)





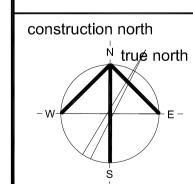


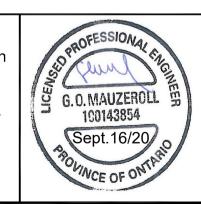


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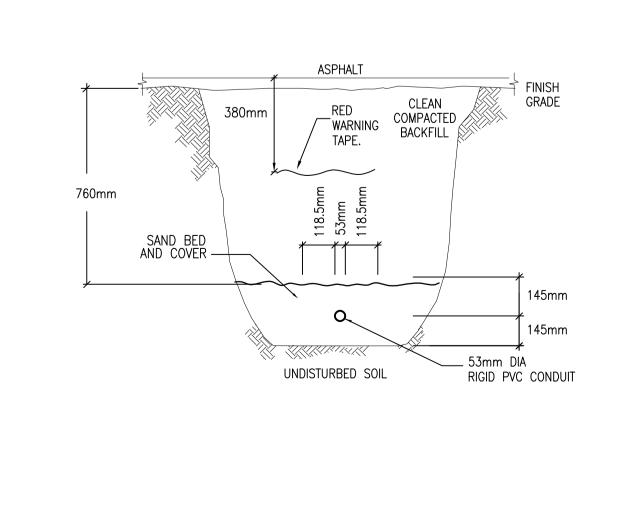
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drawing title ELECTRI DETAILS	CAL:
scale n.t.s.	drawn by _{N.н.}
date Jan. 2020	checked by G.O.M.
project number	drawing number
20029	SP-E03
CONTRACTOR TO VE	revision revision

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DIRECT BURIED CONDUIT FOR EXTERIOR LIGHTING STANDARDS OR POWER

