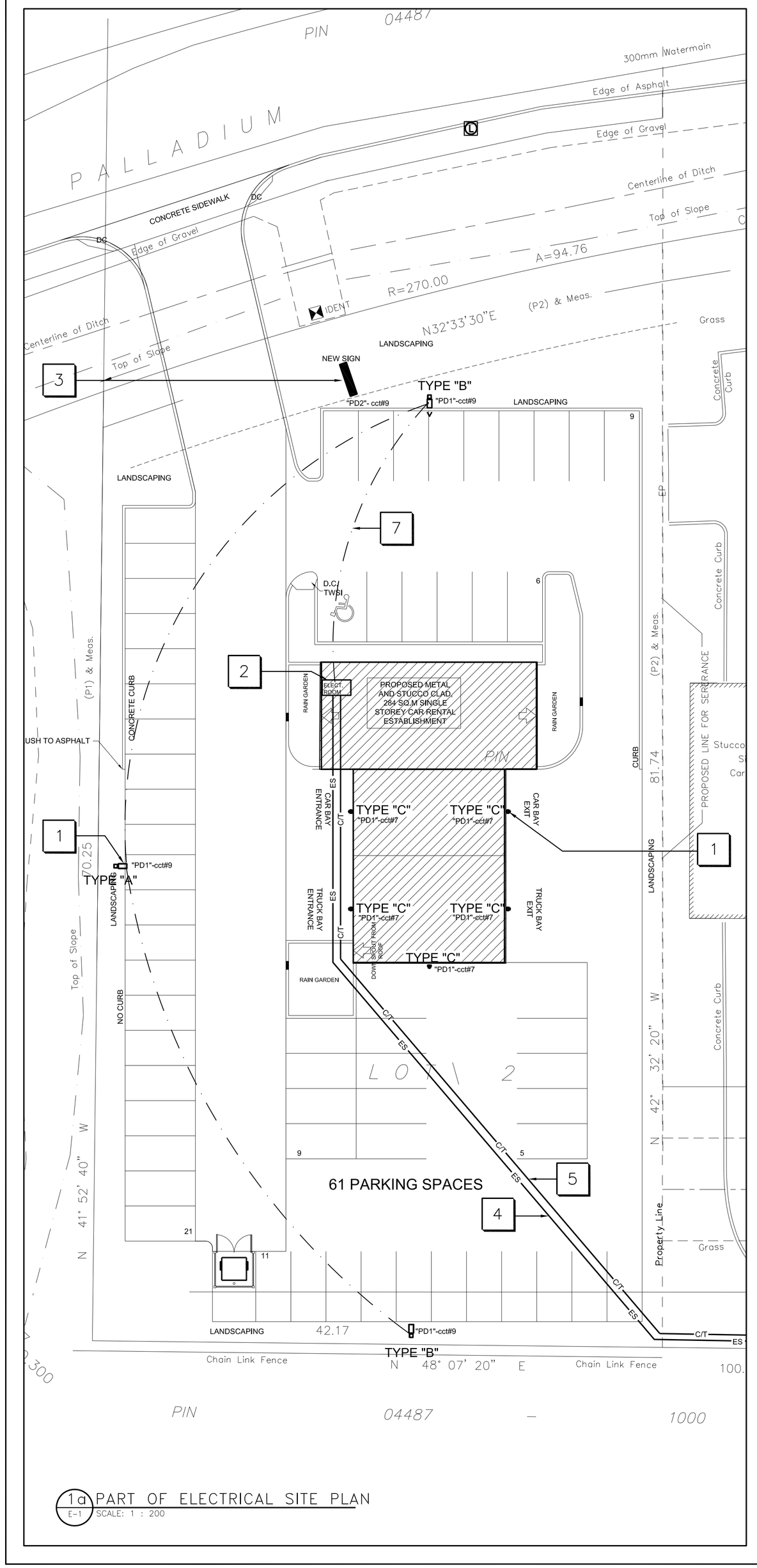
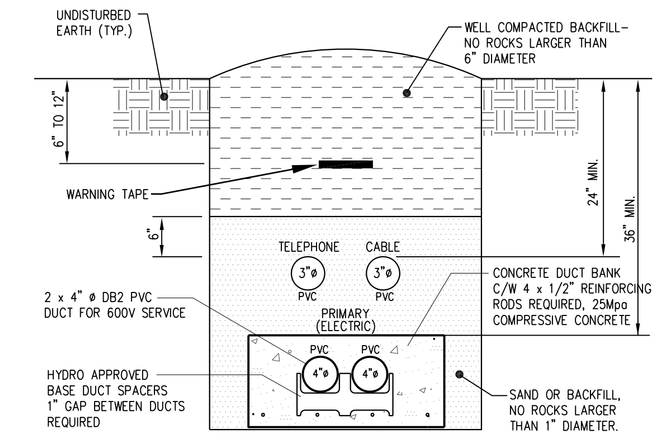
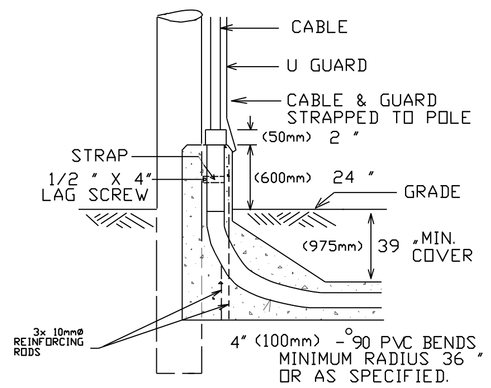


1a PART OF ELECTRICAL SITE PLAN
E-1 SCALE: 1 : 200



2 CONCRETE DUCT BANK CABLE TRENCH CONSTRUCTION
E-1 SCALE: N.I.S.

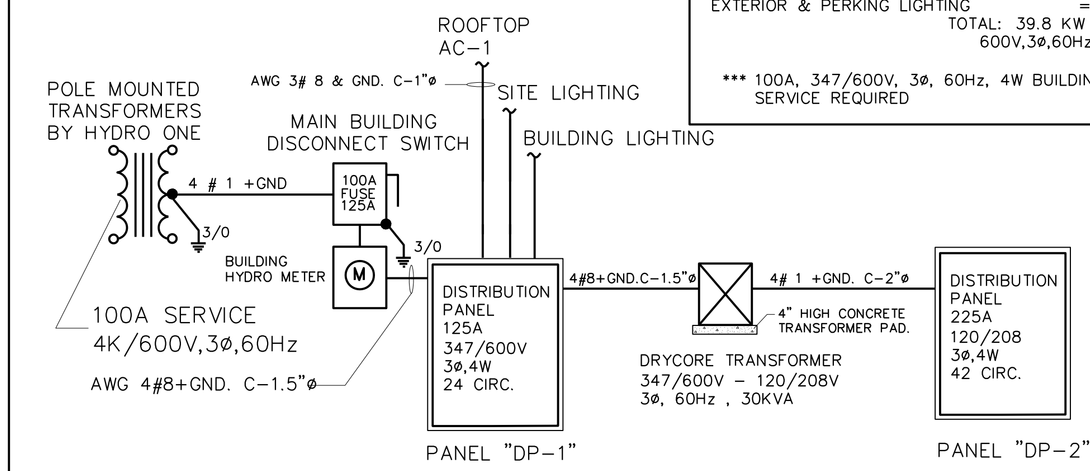


3 POLE LATERAL CONSTRUCTION
E-1 SCALE: N.I.S.

ELECTRICAL GENERAL NOTES:

.1 PRODUCTS
.1 CONDUIT: RIGID PVC TYPE DBII WITH BELL AND SPIGOT JOINTS. BELOW 50 MM PVC SCHEDULE 40 PIPE MAY BE USED.
.2 CABLE MARKERS: LABELLED NON DEGRADEABLE TAPE
.3 CONDUITS & CABLE PROTECTION: 38 X 140 MM PRESSURE TREATED LUMBER IF REQUIRED OR 50 MM THICK POURED CONCRETE NOT LESS THAN 50 MM BEYOND CONDUCTOR OR CONDUIT.

.2 INSTALLATION
.1 GENERAL: INSTALL TO COMPLY WITH ELECTRICAL SAFETY CODE AND HYDRO ONE UTILITY STANDARDS.
.2 CONDUITS:
1. INSTALL AT MINIMUM SLOPE OF 1:400 TO DRAINS OR DRY SUMPS.
2. INSTALL IN BEDDING AND BACKFILL IN ACCORDANCE WITH WITH UTILITY STANDARDS
3. PROVIDE CABLE MARKERS 200 MM BELOW GRADE OVER ALL BURIED SERVICES
4. PROVIDE PULL ROPE IN EACH DUCT.
5. CLEAN CONDUITS BEFORE PULLING CABLES.



4 MAIN ELECTRICAL DISTRIBUTION DIAGRAM
E-1 SCALE: N.I.S.

LOAD SUMMARY

BASIC LOAD OFFICE 91m2x50W/m2	= 4.6 KW
BASIC LOAD WAREHOUSE 153m2x5W/m2	= .8 KW
BASIC LOAD COMMERCIAL 153m2x25W/m2	= 3.9 KW
A/C LOAD 38m2/TON OFFICE	= 8.5 KW
FANS & OTHER EQUIPMENT	= 10 KW
EXTERIOR & PERKING LIGHTING	= 12 KW
TOTAL: 39.8 KW @ 600V,3ø,60Hz, 40A	

*** 100A, 347/600V, 3ø, 60Hz, 4W BUILDING SERVICE REQUIRED

1b PART OF ELECTRICAL SITE PLAN
E-1 SCALE: 1 : 200

ELECTRICAL DRAWING NOTES:

1. NEW EXTERIOR LIGHT FIXTURES TYPE "A"' "B" & TYPE "C". FOR DETAILS REFER TO EXTERIOR LIGHTING SCHEDULE ON DRAWING "E–2". NEW EXTERIOR PARKING LIGHTING TO BE CONTROLLED BY NEW PROGRAMMABLE DIGITAL 7–DAY TIMER LOCATED IN ELECTRICAL ROOM.
2. LOCATION OF NEW ELECTRICAL ROOM. FOR EQUIPMENT LOCATIONS AND DISTRIBUTIONS REFER TO THIS AND E–2 DRAWING FOR DETAILS.
3. NEW EXTERIOR BUILDING SIGN. PROVIDE DEDICATED CIRCUIT FOR LIGHTING 120V, 1ø, 60Hz, 15A CAPACITY. PROVIDE MINIMUM AWG#8 COPPER WIRING IN 1"ø PVC RIGID CONDUIT.
4. MAIN BUILDING SECONDARY POWER BURIED CONDUITS C/W CABLES REFER TO DISTRIBUTION DIAGRAM AND TRENCHING DETAIL BELOW FROM EXISTING HYDRO POLE TO NEW MAIN BUILDING ELECTRICAL ROOM (TYPICAL).
5. MAIN BUILDING COMMUNICATION BURIED PVC CONDUITS FOR FUTURE TV AND BELL WIRING FOR TRENCHING DETAIL SEE BELOW FROM EXISTING SERVICE POLE TO NEW MAIN BUILDING ELECTRICAL ROOM (TYPICAL).
6. APPROXIMATE LOCATION OF EXISTING HYDRO AND SERVICE POLE LOCATED ON HUNTMAR ROAD.
7. NEW EXTERIOR BUILDING AND PARKING SITE LIGHTING. PROVIDE DEDICATED CIRCUIT FROM PANEL "DP–1" 347V, 1ø, 60Hz, 15A CAPACITY. PROVIDE MINIMUM AWG#8 COPPER WIRING IN 1"ø PVC RIGID CONDUIT.

SITE PLAN ELECTRICAL LEGEND:

SYMBOL	DESCRIPTION
NEW	
—ES—	SECONARY MAIN ELCTRICAL SERVICE (B) = BURIED
—HV—	HIGH VOLTAGE ELECTRICAL SERVICE 3 x 100mm PVC CONDUIT (B) = BURIED, (OH) = OVERHEAD
—E—	ELECT. MAIN FEEDER OR BRANCH CIRCUIT (B) = BURIED, (OH) = OVERHEAD
—T—	TELEPHONE 100mm PVC CONDUIT (B) = BURIED, (OH) = OVERHEAD
—C—	CABLE 100mm PVC CONDUIT (B) = BURIED, (OH) = OVERHEAD
(E)	ELECTRIC METER
(C)	CABLE PEDESTAL
(T)	BELL PEDESTAL
(MH)	MAN HOLE
LS	POST TOP LIGHT FIXTURE, REFER TO SPECIFICATIONS
U.P.	UTILITY POLE
J	WALL MOUNT LIGHT FIXTURE
	PADMOUNT TRANSFORMER

FLYNN ARCHITECT
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GENERAL NOTES
1. DO NOT SCALE DRAWINGS. FIGURED DIMENSIONS ONLY TO BE USED.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
3. ALL WORK DESCRIBED UNDER THIS CONTRACT TO COMPLY WITH THE MOST CURRENT EDITION OF THE ONTARIO BUILDING CODE, AND/OR NATIONAL BUILDING CODE, AND OTHER CODES AND BY-LAWS IN EFFECT.

ANTARES
Antares Engineering Group Inc.
Professional Mechanical, Electrical, Testing and Research Engineers
159 Colonnade Road, Unit 1, Ottawa, Ontario, K2E 7J4
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ISSUE RECORD

No	DATE	REVISION
5.	14–02–2020	ISSUED FOR CONSTRUCTION
4.	8–11–2019	ISSUED FOR TENDER
3.	27–06–2019	ISSUED FOR BUILDING PERMIT
2	28–09–2018	ISSUED FOR REVIEW
1	13–05–2016	ISSUED FOR CLIENT REVIEW

ACTUAL NORTH | PROJECT NORTH

REGISTERED PROFESSIONAL ENGINEER J. C. JARRETT 14/02/2020 PROVINCE OF ONTARIO

CLIENT:

ENTERPRISE RENT-A-CAR
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NEPEAN, ONTARIO
K2E 7J4
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PROJECT TITLE:
225 HUNTMAR DRIVE
HUNTMAR/PALLADIUM DR. ENTERPRISE

DRAWING TITLE:
ELECTRICAL SITE PLAN
MAIN POWER SERVICE

	DRAWN BY S.J.S.	JOB No.	DRAWING No.
SCALE AS NOTED	CHECKED BY J.C.J.	15-610	E-1

ELECTRICAL