

NO.	DATE	DESCRIPTION
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10	2024.02.27	RE-ISSUED FOR TENDER
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02	2020.11.23	ISSUED FOR 90% REVIEW
01	2020.09.28	ISSUED FOR 50% REVIEW

PROJECT CONTACT

NAME: REZA MADANI
 TEL: 647-943-6776
 EMAIL: Reza.Madani@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



Smith + Andersen
 1100 - 100 Sheppard Ave. East, Toronto Ont, M2N 6N5
 416 487 8151 | 416 487 9104 sm@smithandandersen.com

PROFESSOR'S LAKE RECREATION CENTRE
 1660 NORTH PARK DR., BRAMPTON, ON

POWER DISTRIBUTION, ASPHALT AND LIGHT STANDARD REPLACEMENT

SITE PLAN - DEMOLITION

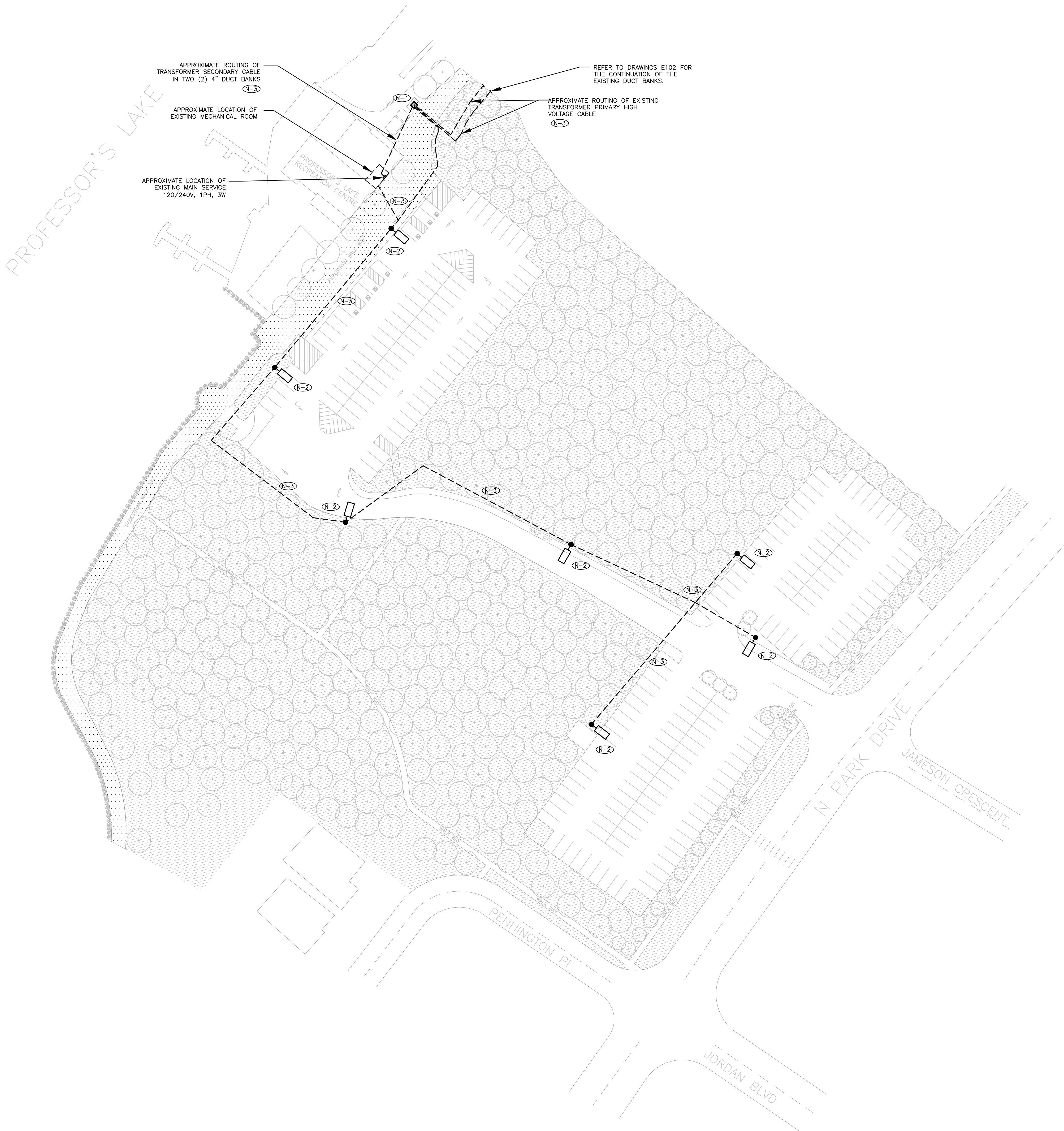
project no.: 20257.001.E.001
 scale: 1:500
 date: JULY 2020

GENERAL NOTES:

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- FLOOR PLANS AND SITE PLAN SHALL BE READ IN CONJUNCTION WITH SCHEMATICS. INFORMATION SHOWN ON PLANS SHALL BE ASSUMED TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- ALL PENETRATIONS AND MATERIALS REMOVED TO BE PATCHED AND REPAIRED. CONTRACTOR SHALL SEAL ALL PENETRATIONS AND MAKE GOOD AS NECESSARY TO COMPLY WITH ONTARIO BUILDING CODE. PROVIDE FIRE STOPPING AND WATER SEAL AS REQUIRED. ALL MATERIALS INDICATED TO BE REMOVED SHALL BE DISPOSED OF SITE BY CONTRACTOR UNLESS OTHERWISE NOTED. COORDINATE WITH FACILITY MANAGEMENT FOR THIS WORK.
- ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE SHALL REMAIN LIVE AND OPERATIONAL. ELECTRICAL CONTRACTOR TO ENSURE SERVICES TO THESE AREAS ARE ISOLATED AND PROTECTED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION.
- WORK PERFORMED SHALL BE IN CONFORMITY WITH ALL LAWS, BYLAWS, OR REGULATIONS OF THE MUNICIPAL, PROVINCIAL OR OTHER AUTHORITIES HAVING JURISDICTION. NOTHING CONTAINED IN THESE DRAWINGS SHALL BE CONSTRUED AS TO BE IN CONFLICT WITH ANY SUCH LAWS.
- CONTRACTOR SHALL CARRY THE COST FOR REQUIRED SERVICE LOCATES, CORING, SCANNING AND X-RAY TO COMPLETE THIS WORK. THE X-RAY SHALL BE DONE AFTER HOURS WHEN THE BUILDING IS FULLY EVACUATED. ALL SCANS SHOULD BE PROVIDED FOR ENGINEER AND OWNER FOR REVIEW.
- THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS FOR COMPLETE SCOPE OF WORK.

DEMOLITION NOTES:

- (N-1) EXISTING 100KVA, 1PH, 3W HYDRO TRANSFORMER ALONG WITH THE SECONDARY CABLES TO BE REMOVED. RETAIN SECONDARY DUCT BANK AND CONNECT TO NEW TRANSFORMER SECONDARY DUCT BANK. ELECTRICAL CONTRACTOR TO COORDINATE WITH ALECTRA FOR COMPLETION OF THIS WORK. IDENTIFIED PRICE #2
- (N-2) REMOVE AND DISPOSE EXTERIOR LIGHTING FIXTURES COMPLETE WITH ALL POLES, BASE WIRING AND CONDUITS BACK TO SOURCE AND MAKE SAFE. IDENTIFIED PRICE #1
- (N-3) INDICATED ROUTING ARE DIAGRAMMATIC ONLY. EXACT ROUTING TO BE DETERMINED ON SITE BY THE CONTRACTOR. INCLUDE ALL ASSOCIATED COSTS IN THE BID PRICE.



APPROXIMATE ROUTING OF TRANSFORMER SECONDARY CABLE IN TWO (2) 4" DUCT BANKS (N-3)

APPROXIMATE LOCATION OF EXISTING MECHANICAL ROOM

APPROXIMATE LOCATION OF EXISTING MAIN SERVICE 120/240V, 1PH, 3W

REFER TO DRAWINGS E102 FOR THE CONTINUATION OF THE EXISTING DUCT BANKS.

APPROXIMATE ROUTING OF EXISTING TRANSFORMER PRIMARY HIGH VOLTAGE CABLE (N-3)

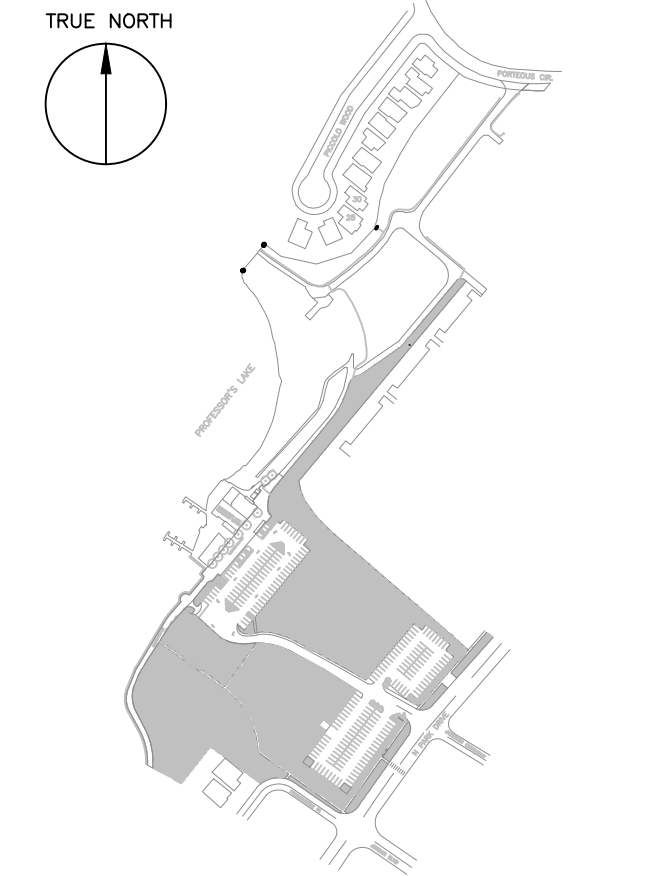
PROFESSOR'S LAKE

PROFESSOR'S LAKE RECREATION CENTRE

N PARK DRIVE
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REVISIONS AND ISSUES

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POWER DISTRIBUTION, ASPHALT AND LIGHT STANDARD REPLACEMENT

SITE PLAN - NEW

project no.: 2025/001.E.001
scale: 1:500
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- FLOOR PLANS AND SITE PLAN SHALL BE READ IN CONJUNCTION WITH SCHEMATICS. INFORMATION SHOWN ON PLANS SHALL BE ASSUMED TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- ALL PENETRATIONS AND MATERIALS REMOVED TO BE PATCHED AND REPAIRED. CONTRACTOR SHALL SEAL ALL PENETRATIONS AND MAKE GOOD AS NECESSARY TO COMPLY WITH ONTARIO BUILDING CODE. PROVIDE FIRE STOPPING AND WATER SEAL AS REQUIRED. ALL MATERIALS INDICATED TO BE REMOVED SHALL BE DISPOSED OF SITE BY CONTRACTOR UNLESS OTHERWISE NOTED. COORDINATE WITH FACILITY MANAGEMENT FOR THIS WORK.
- ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE SHALL REMAIN LIVE AND OPERATIONAL. ELECTRICAL CONTRACTOR TO ENSURE SERVICES TO THESE AREAS ARE ISOLATED AND PROTECTED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION.
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- CONTRACTOR SHALL CARRY THE COST FOR REQUIRED CORING, SCANNING AND X-RAY TO COMPLETE THIS WORK. THE X-RAY SHALL BE DONE AFTER HOURS WHEN THE BUILDING IS FULLY EVACUATED. ALL SCANS SHOULD BE PROVIDED FOR ENGINEER AND OWNER FOR REVIEW.
- THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE STRUCTURAL AND GEOTECHNICAL DRAWINGS FOR COMPLETE SCOPE OF WORK.
- CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION. EXACT ROUTING OF WIRING TO BE DETERMINED ON SITE BY CONTRACTOR.
- COORDINATE ALL WORK WITH STRUCTURAL AND GEOTECHNICAL DIVISIONS ON SITE FOR EXACT EQUIPMENT LOCATION.
- CONTRACTOR TO PROVIDE THE UPDATED TYPED LABELS AND PANEL SCHEDULES ONCE THE INSTALLATION IS COMPLETED. COORDINATE WITH FACILITY MANAGEMENT.
- PROVIDE A DEDICATED NEUTRAL WIRE FOR EACH LIGHTING CIRCUIT.
- ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FULLY FAMILIAR WITH THE SCOPE OF WORK PRIOR TO SUBMITTING THEIR PRICING. NO EXTRAS SHALL BE ENTERTAINED DUE TO MISINTERPRETATION OF THE DESIGN INTENT.
- ELECTRICAL CONTRACTOR TO ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF THE PROJECT CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL PERFORM AND PROVIDE TEST RESULTS FOR ALL NEWLY INSTALLED 1/0 CIRCUITS TO ENSURE THERE IS NO SHORT OR DAMAGE TO THE WIRING INSULATION.
- CONTRACTOR TO PROVIDE THE SCHEDULE FOR PHASING OF THE WORK TO MINIMIZE THE BUILDING'S OPERATION INTERRUPTION.

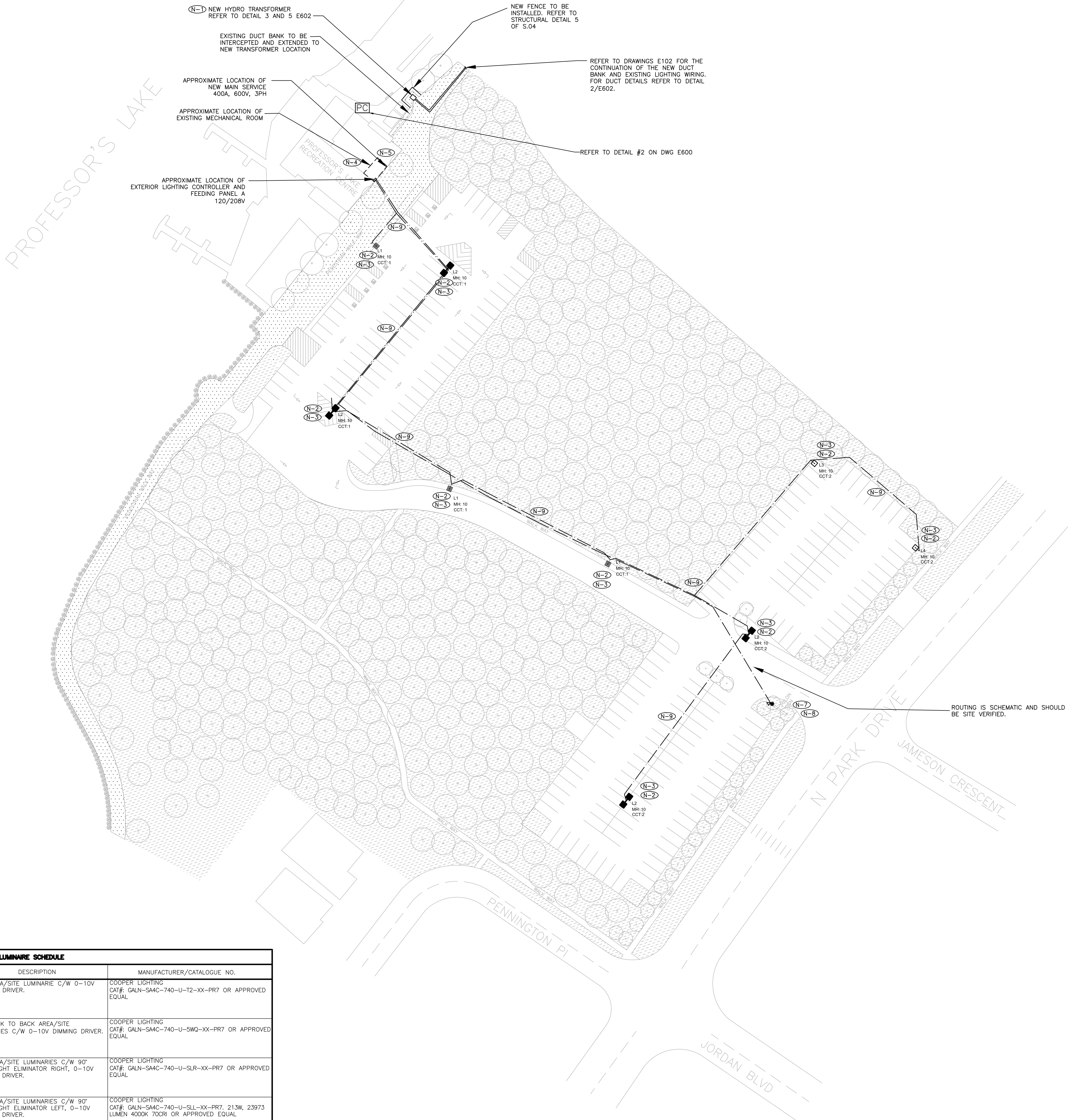
DRAWING NOTES:

- (N-1)** NEW OUTDOOR PAD-MOUNTED TAMPER RESISTANT, LIQUID FILLED HYDRO TRANSFORMER, WITH INTERNAL CURRENT LIMITING FUSE AND PRESSURE RELIEF DEVICE, 300kVA, 13.8kV/347/600V, 3PH, 4W, DY AND ITS PRIMARY WIRING TO BE SUPPLIED BY ALECTRA AND INSTALLED BY CONTRACTOR. ELECTRICAL CONTRACTOR TO COORDINATE WITH ALECTRA AND FACILITY MANAGEMENT FOR NEW INSTALLATION WORK. RE-USE EXISTING DUCT BANK FROM EXISTING TRANSFORMER'S LOCATION TO EXISTING DISCONNECT SWITCH LOCATION. PROVIDE TRANSFORMER SECONDARY FEEDERS AND CONNECT TO NEW TRANSFORMER. REFER TO SINGLE LINE DIAGRAM ON DRAWING E200 FOR MORE DETAILS AND DETAIL 2/E301 FOR SEPARATE PRICE ITEM.
- (N-2)** SUPPLY AND INSTALL NEW OUTDOOR LED LIGHTING FIXTURES COMPLETE WITH POLES, CONCRETE BASES, ALL ASSOCIATED MOUNTING ACCESSORIES, WIRING AND CONDUITS AND PHOTOCELL AS INDICATED. MOUNTING HEIGHT (MH) OF THE FIXTURES TO BE AS INDICATED ON THE DRAWINGS. WIRING TO BE 2x#8 AWG + #8 AWG GND IN Ø1-1/2" PVC CONDUIT (TWO RUNS AS PER CIRCUIT NUMBER ON THE FIXTURE). REFER TO LUMINAIRE SCHEDULE FOR MORE DETAILS.
- (N-3)** REFER TO DETAILS 5/E600 AND 6/E600 FOR REQUIREMENTS OF THE LIGHTING POLE AND CONCRETE BASE.
- (N-4)** REFER TO DRAWING E301 FOR THE LOCATION OF EXTERIOR LIGHTING CONTROLLER AND FEEDING PANEL.
- (N-5)** REFER TO DETAIL 2/E600 FOR SCHEMATIC DIAGRAM OF THE EXTERIOR LIGHTING CONTROLLER. PROVIDE PHOTOCELL AS REQUIRED.
- (N-6)** ELECTRICAL CONTRACTOR SHALL PROVIDE MINIMUM 1.5" RIGID UNDERGROUND RATED PVC CONDUIT/HDPE MINIMUM 750MM BELOW GRADE, COMPLETE WITH PULL STRING FOR DIRECTIONAL BORING BETWEEN EACH POLE AS SHOWN. ALLOW FOR UNDERGROUND SCANNING, LOCATE, EXCAVATING/TRENCHING, BACKFILLING, ETC AND CLEAR ALL EXISTING UNDERGROUND SERVICES. RE-INSTATE THE EXCAVATED AREA TO THE ORIGINAL CONDITIONS WHETHER PAVEMENT, CONCRETE OR GRASS AREA. ELECTRICAL CONTRACTOR SHALL REPORT UNDERGROUND SCANNING.
- (N-7)** ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL TWO NEW EMPTY Ø1" PVC CONDUITS FROM PANEL 'A' AND DATA SWITCH LOCATED IN MECHANICAL ROOM TO THE EXISTING Pylon SIGN AT DRIVEWAY ENTRANCE. EXACT ROUTING TO BE DETERMINED ON SITE. PROVIDE WATER SEALING AS REQUIRED. CONDUITS TO BE CAPPED FOR FUTURE USE.
- (N-8)** ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL NEW DATA FROM DATA SWITCH IN MECHANICAL ROOM AND NEW 2x#10 AWG + #10 AWG GND WIRING FROM PANEL 'A' LOCATED IN MECHANICAL ROOM TO THE EXISTING Pylon SIGN IN THE PROVIDED NEW Ø1" PVC CONDUITS.
- (N-9)** DURING THE COURSE OF CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT THE WHOLE SITE IS PROVIDED WITH TEMPORARY LIGHTING AND POWER. AT NO POINT THE SITE SHALL BE LEFT IN DARK. ALLOW FOR TEMPORARY GENERATOR 100KW, 120/208V, 3PH AND TEMPORARY PANEL 400A, 120/208V, 3PH ALONG WITH THE REQUIRED TEMPORARY CABLING FOR THE DURATION OF SHUTDOWN. CONTRACTOR TO ALLOW FOR A MINIMUM OF ONE (1) WEEK OF GENERATOR FUEL IN BASE CONTRACT. IN CASE WHEN MORE THAN ONE (1) WEEK OF TEMPORARY POWER REQUIRED, EXTRA GENERATOR RENTAL AND FUEL COST WILL BE PAID THRU CASH ALLOWANCE. CONTRACTOR SHALL PROVIDE INVOICES TO SUPPORT THEIR CLAIM. (TO BE CONFIRMED WITH ALECTRA FOR THE REQUIRED SHUTDOWN TIME AND FACILITY MANAGEMENT FOR EXACT TEMPORARY POWER REQUIREMENTS)

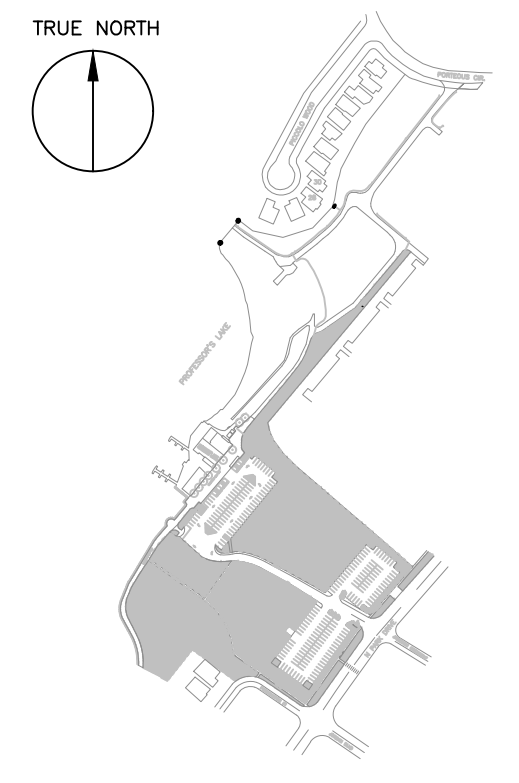
IDENTIFIED PRICE #2

IDENTIFIED PRICE #1

IDENTIFIED PRICE #2

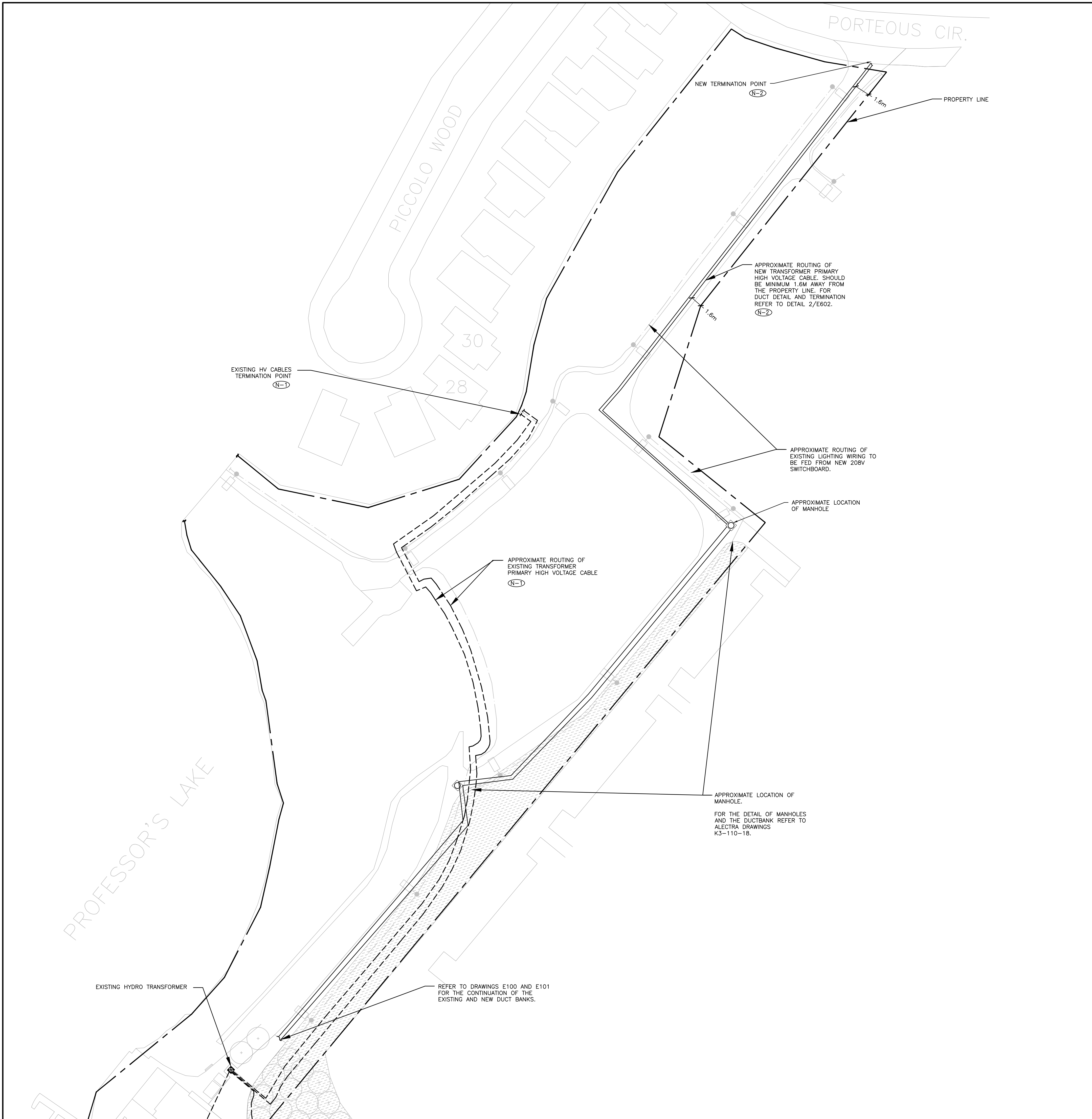


LUMINAIRE SCHEDULE			
TYPE	LAMP VOLTAGE	DESCRIPTION	MANUFACTURER/CATALOGUE NO.
L1	120V	LED AREA/SITE LUMINAIRE C/W 0-10V DIMMING DRIVER.	COOPER LIGHTING CAT#: GALN-S44C-740-U-T2-XX-PR7 OR APPROVED EQUAL
L2	120V	LED BACK TO BACK AREA/SITE LUMINARIES C/W 0-10V DIMMING DRIVER.	COOPER LIGHTING CAT#: GALN-S44C-740-U-SWQ-XX-PR7 OR APPROVED EQUAL
L3	120V	LED AREA/SITE LUMINARIES C/W 90° SPILL LIGHT ELIMINATOR RIGHT, 0-10V DIMMING DRIVER.	COOPER LIGHTING CAT#: GALN-S44C-740-U-SLR-XX-PR7 OR APPROVED EQUAL
L4	120V	LED AREA/SITE LUMINARIES C/W 90° SPILL LIGHT ELIMINATOR LEFT, 0-10V DIMMING DRIVER.	COOPER LIGHTING CAT#: GALN-S44C-740-U-SLL-XX-PR7, 213W, 23973 LUMEN 4000K 70CRI OR APPROVED EQUAL



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- DRAWING NOTES:**
- (N-1) EXISTING HIGH VOLTAGE HYDRO FEEDERS TO BE REMOVED BY HYDRO (ALECTRA) AND THE DUCTS TO BE ABANDONED BY ELECTRICAL CONTRACTOR. COORDINATE WITH ALECTRA TO COMPLETE THIS WORK.
 - (N-2) NEW DUCT BANK WITHIN PROPERTY LINE TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. NEW HIGH VOLTAGE CABLING WILL BE DONE BY ALECTRA. CONTRACTOR TO COORDINATE WITH ALECTRA FOR COMPLETION OF THIS WORK AND NEW HIGH VOLTAGE FEEDERS. REFER TO DRAWING 2/E602 FOR DETAIL OF THE DUCT BANK. CONTRACTOR TO ALLOW FOR SUB-SOIL INVESTIGATION PRIOR TO EXCAVATION.
 - (N-3) INDICATED ROUTINGS ARE DIAGRAMMATIC ONLY. EXACT ROUTING TO BE DETERMINED ON SITE BY THE CONTRACTOR. INCLUDE ALL ASSOCIATED COSTS IN THE BID PRICE.
 - (N-4) ELECTRICAL CONTRACTOR TO HIRE THIRD PARTY CONSULTANT FOR PERFORMING POWER SYSTEM STUDY AS EXPLAINED IN SPEC. SUPPLY AND INSTALL NEW ARC FLASH LABELS FOR ALL EQUIPMENT.



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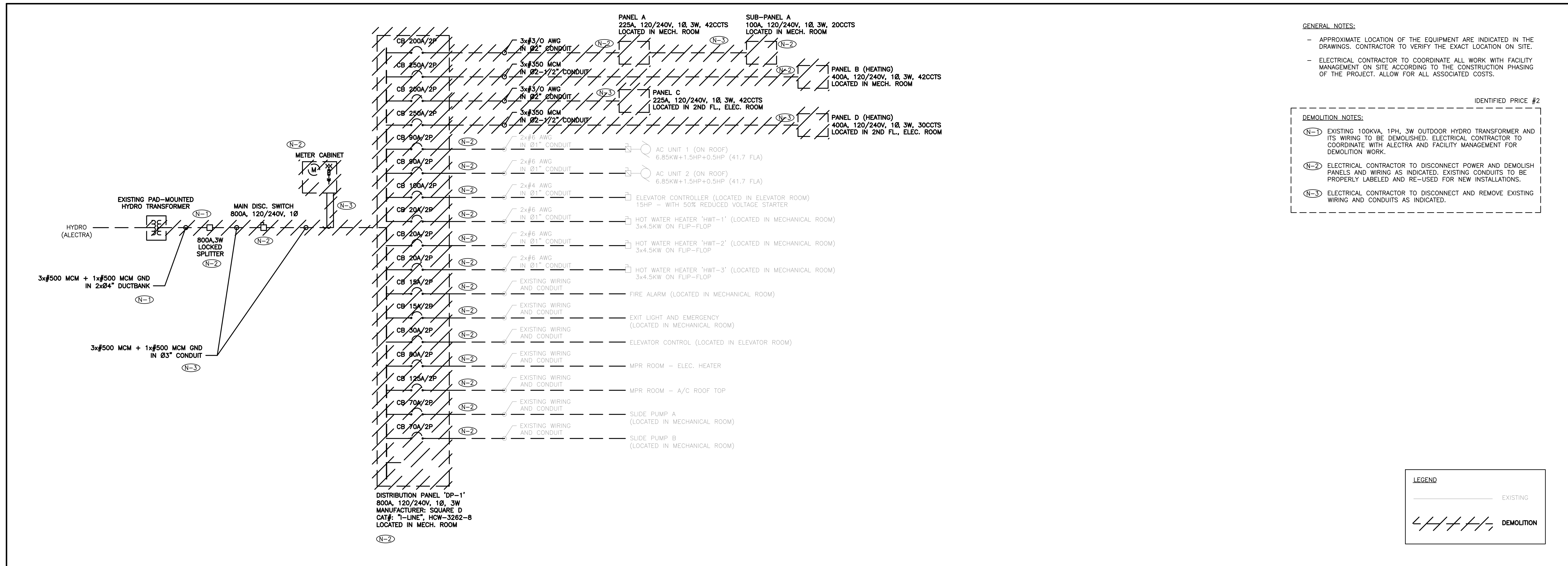
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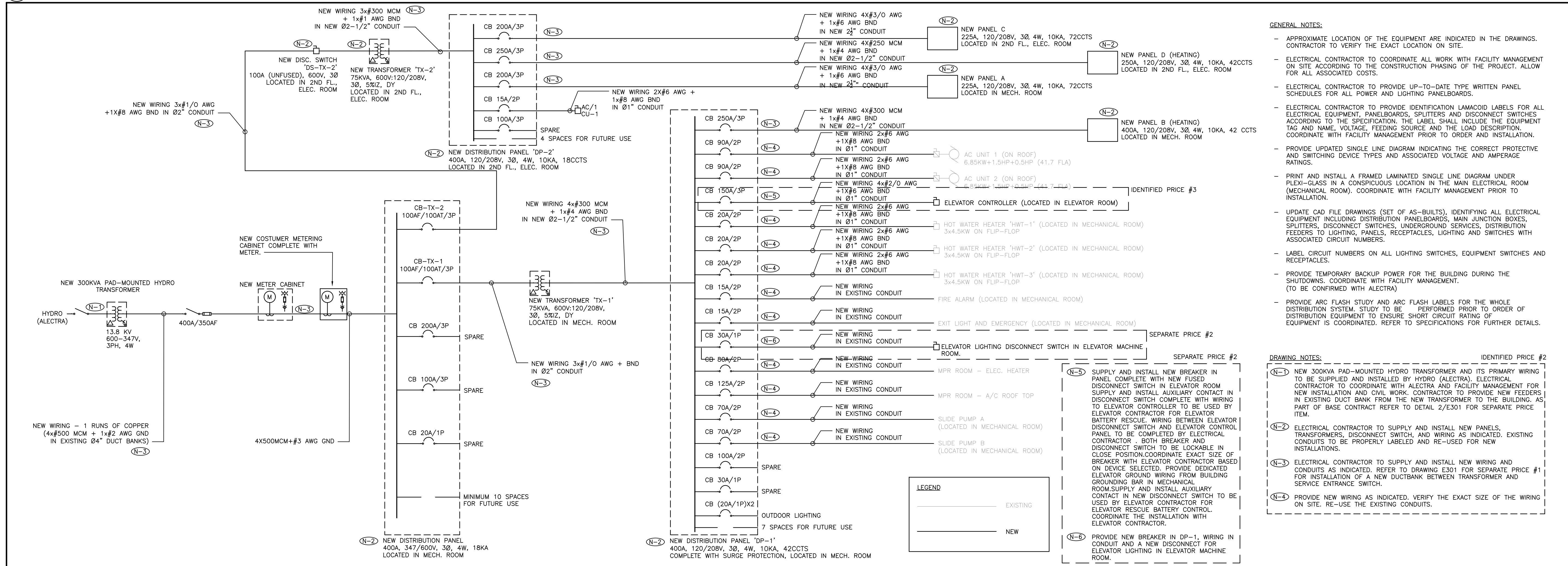
POWER DISTRIBUTION, ASPHALT AND LIGHT STANDARD REPLACEMENT

SITE PLAN - HYDRO

project no.: 20257.001.E.001
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1 SINGLINE LINE DIAGRAM – DEMOLITION



2 SINGLINE LINE DIAGRAM – NEW

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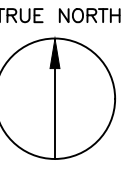
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PROFESSOR'S LAKE RECREATION CENTRE
 1660 NORTH PARK DR., BRAMPTON, ON

**POWER DISTRIBUTION,
 ASPHALT AND LIGHT
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SINGLE LINE DIAGRAM

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POWER DISTRIBUTION, ASPHALT AND LIGHT STANDARD REPLACEMENT

GROUND AND SECOND FLOOR POWER AND SYSTEMS

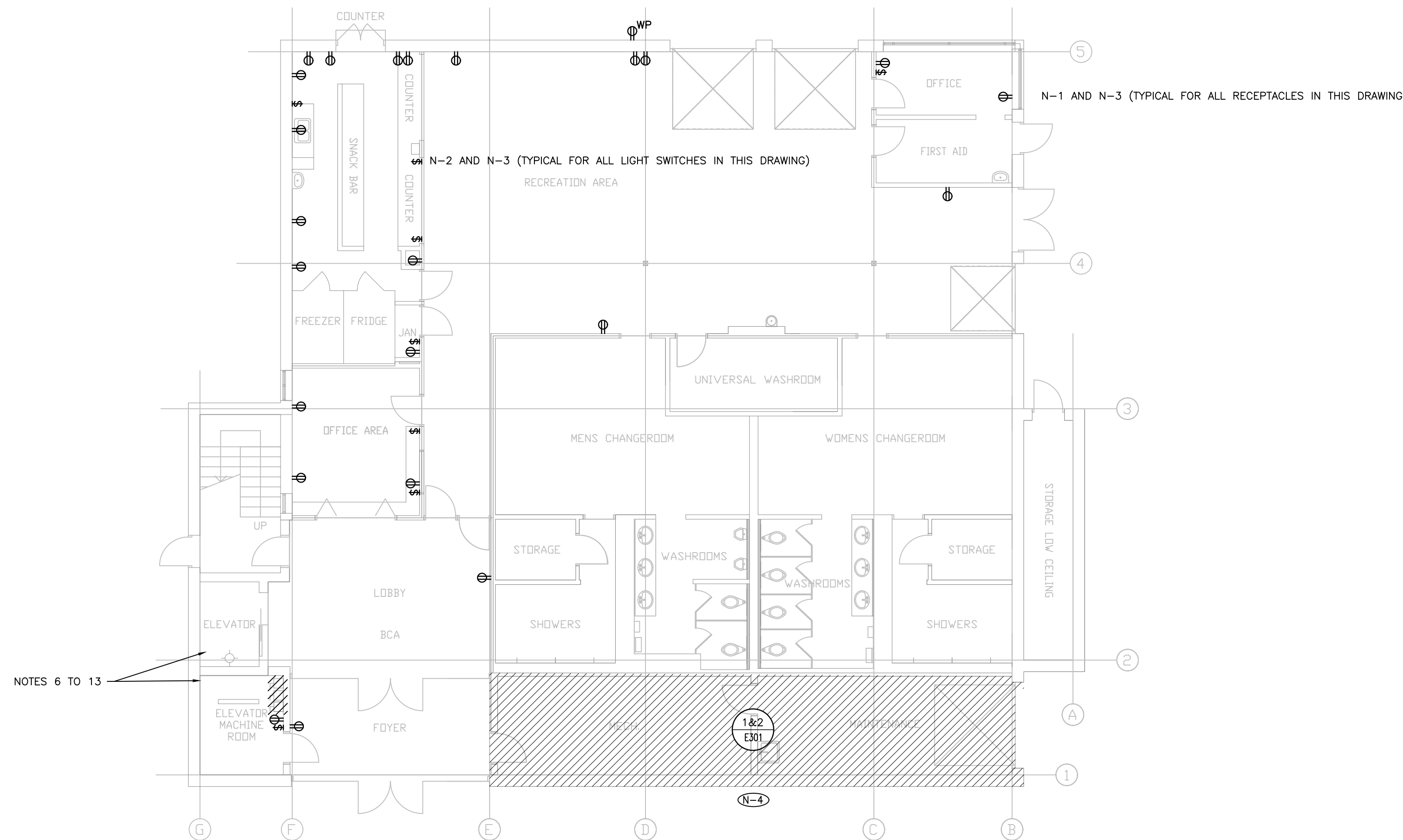
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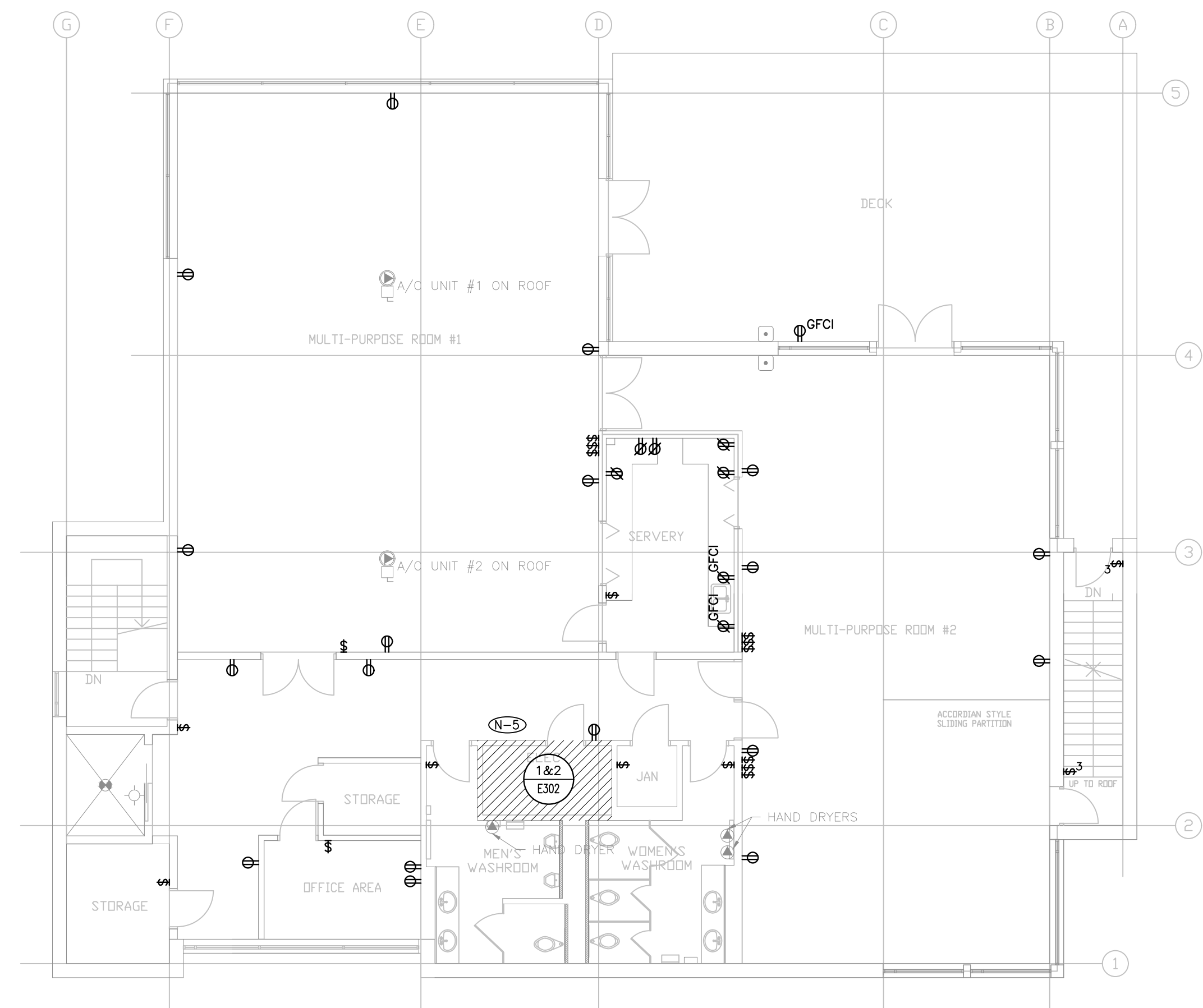
- ALL GENERAL NOTES IN DRAWINGS E100 AND E101 ARE APPLICABLE TO THIS DRAWING.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO TRACE THE WIRING BEFORE DEMOLITION AND VERIFY THAT THE EXISTING SCHEDULE OF THE FEEDING PANEL IS ACCURATE. IN THE CASE THAT THERE IS ANY CONFLICT, MARKUP THE EQUIPMENT ON THE AS-BUILT DRAWING AND NOTIFY THE CONSULTANT AND THE CLIENT.
- PROVIDE SUITABLE LABELS ON ALL RECEPTACLES AND LIGHTING SWITCHES. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT AND FACILITY MANAGEMENT PRIOR TO INSTALLATION.
- COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH FACILITY MANAGEMENT.

DRAWING NOTES:

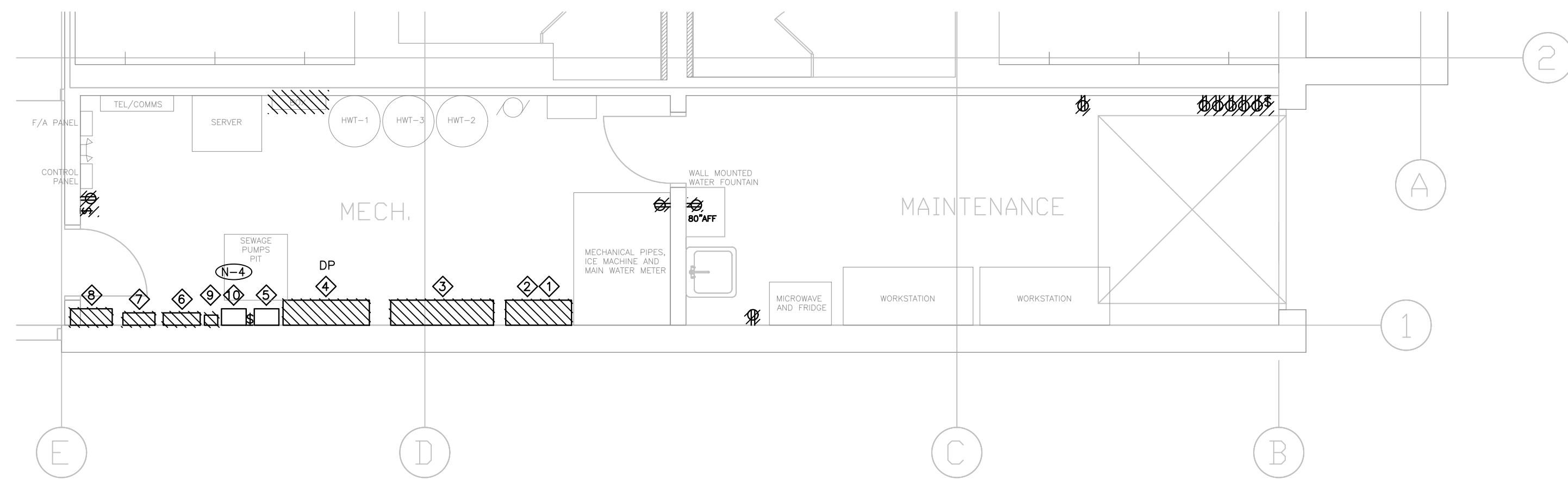
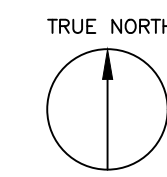
- (N-1) REMOVE AND DISPOSE ALL EXISTING RECEPTACLES ALONG WITH THEIR WIRING AS INDICATED. MAKE SAFE THE CONDUITS FOR NEW INSTALLATION. SUPPLY AND INSTALL NEW 120V RECEPTACLES ALONG WITH NEW WIRING. REUSE EXISTING CONDUITS. MODIFY GROUNDING TO RECEPTACLES TO MEET THE LATEST CODE REQUIREMENTS. IDENTIFIED PRICE #2
- (N-2) REMOVE AND DISPOSE ALL EXISTING LIGHT SWITCHES ALONG WITH THEIR WIRING AS INDICATED. MAKE SAFE THE CONDUITS FOR NEW INSTALLATION. SUPPLY AND INSTALL NEW LIGHT SWITCHES ALONG WITH NEW WIRING. REUSE EXISTING CONDUITS.
- (N-3) LABEL CIRCUIT NUMBERS ON ALL LIGHTING SWITCHES, EQUIPMENT SWITCHES AND RECEPTACLES.
- (N-4) REFER TO DRAWING E301 FOR EXTENT OF WORK IN THIS AREA.
- (N-5) REFER TO DRAWING E302 FOR EXTENT OF WORK IN THIS AREA.
- (N-6) SUPPLY AND INSTALL NEW 15A-1P GFCI BREAKER IN NEW PANEL A LOCATED IN ELECTRICAL ROOM. COMPLETE WITH WIRING IN CONDUIT. DISCONNECT SWITCH IN ELEVATOR ROOM TO BE USED FOR ELEVATOR CABIN GFCI RECEPTACLE. SUPPLY AND INSTALL 20A, 1P BREAKER IN NEW PANEL B LOCATED IN MECHANICAL ROOM AND COMPLETE WITH LOCAL DISCONNECT SWITCH AND WIRING TO ELEVATOR MACHINE ROOM FOR ELEVATOR OIL COOLER. SEPARATE PRICE #2
- (N-7) REPLACE TWO EXISTING LIGHTING LAMPS IN ELEVATOR PIT AND ELEVATOR ROOM WITH LED LAMPS COMPLETE WITH WIRE GUARDS. REPLACE LIGHTING SWITCH. PROVIDE WIRE GUARDS FOR ALL LIGHTING IN ELEVATOR PIT, HOISTWAY AND ELEVATOR ROOM.
- (N-8) ALL RECEPTACLES IN ELEVATOR MACHINE ROOM, ELEVATOR PIT AND HOISTWAY TO BE REPLACED WITH GFCI TYPE(TOTAL OF FOUR). USE EXISTING WIRING AND CONDUITS WHERE POSSIBLE.
- (N-9) PROVIDE CAT6 CABLE IN CONDUIT FROM IT ROOM TO ELEVATOR MACHINE ROOM. PROVIDE JACKS AT BOTH ENDS AND TEST THE CABLE. COORDINATE FINAL REQUIREMENTS WITH THE ELEVATOR CONTRACTOR AND LOCATION OF IT ROOM ON SITE.
- (N-10) RESERVED
- (N-11) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLY AND INSTALLATION OF CONDUITS AND WIRING FOR ALL POWER CONTROL AND COMMUNICATION REQUIREMENT OF ELEVATOR IN AREAS OUTSIDE HOISTWAY. COORDINATE WITH ELEVATOR CONTRACTOR.
- (N-12) SUPPLY AND INSTALL A 1.5-TON SPLIT UNIT SYSTEM COMPLETE WITH AN EVAPORATOR UNIT AC-1 AND CONDENSING UNIT CU-1 INCLUDING BUT NOT LIMITED TO ALL REFRIGERANT PIPING, PIPING INSULATION, VALVE, PIPE FITTING, CONTROLS AND CONTROLS WIRING, VIBRATION ISOLATION ON MOUNTING BRACKETS, MOUNTING BRACKETS AND THE START UP AND COMMISSIONING OF THE UNIT. ALL REFRIGERANT PIPING AND INSULATION SHALL BE AS PER MECHANICAL SPECIFICATIONS. ALL WALL PENETRATIONS MUST BE FINISHED WITH FIREPROOFING. THE LOCATION OF AC-1 AND CU-1 SHALL BE COORDINATED ON-SITE WITH THE CLIENT OR THE CLIENT'S ENGINEERING REPRESENTATIVES. SUPPLY AND INSTALL 15A, 2P BREAKER IN DISTRIBUTION PANEL DP-2 IN MECHANICAL ROOM COMPLETE WITH WIRING AND CONDUIT AND LOCAL DISCONNECT TO FEED NEW AC UNIT AND CONDENSING UNIT. TERMINATE CONDENSATE TO THE OUTDOORS. INSTALLATION SHALL MEET MANUFACTURER'S AND ESA REQUIREMENTS INCLUDING ALL REQUIRED WIRING AND DISCONNECTS..
- (N-13) SUPPLY AND INSTALL A THERMOSTAT FULLY INTEGRATED WITH THE SPLIT UNIT SYSTEM.
- (N-14) REFER TO ENTIRETY OF MECHANICAL SPECIFICATIONS AND AC UNIT SCHEDULE FOR SUPPLY AND INSTALLATION OF THE NEW AIR-CONDITIONING UNIT.
- (N-15) SUPPLY AND INSTALL WALL-MOUNTED THERMOSTAT MANUFACTURED BY THE A/C MANUFACTURER TO CONTROL THE UNIT LOCALLY. THERMOSTAT SHALL BE LOCATED AWAY FROM A DIRECT HEAT SOURCE AND SHALL BE INSTALLED AT APPROXIMATELY 60 INCHES HEIGHT.
- (N-16) PROVIDE NECESSARY ELECTRICAL INTERLOCKS TO PREVENT SIMULTANEOUS OPERATION OF THE EXISTING HEATER AND THE NEW AC. MAKE SURE THAT THE EXISTING HEATER INSIDE THE ELEVATOR MACHINE ROOM SHALL REMAIN "OFF" WHILE THE NEW AC UNIT IS "ON".
- (N-17) SUPPLY AND INSTALL REFRIGERATION PIPING, ELECTRICAL AND SIGNAL WIRING BETWEEN THE INDOOR (EVAPORATOR) UNIT AND THE CONDENSING UNIT (OUTDOOR UNIT) IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- (N-18) WALL PENETRATIONS FOR THE REFRIGERANT PIPING BETWEEN THE INDOOR & OUTDOOR UNITS, SHALL BE COMPLETELY WATERPROOFED BY USE OF PLIABLE SILICON BASED CAULKING.
- (N-19) THE ELEVATOR MACHINE ROOM IS LOCATED AT THE SOUTH-WEST CORNER OF THE BUILDING WITH TWO EXPOSED WALLS. LOCATE THE NEW CONDENSING UNIT (OUTDOOR UNIT) AWAY FROM CAR TRAFFIC TO PREVENT ANY RISK OF IMPACT.
- (N-20) MAKE SURE THERE ARE NO OBSTRUCTIONS DIRECTLY ABOVE THE OUTDOOR UNIT (SUCH AS A SOFFIT) OR IN FRONT OF THE UNIT (SUCH AS A SHRUB) THAT CAN RESTRICT THE AIR FLOW OF THE UNIT. MAINTAIN ALL NECESSARY SERVICING CLEARANCES AS PER THE SPLIT UNIT MANUFACTURER'S INSTRUCTIONS. MAINTAIN MINIMUM 3 FT CLEARANCE FROM ANY EXISTING UTILITY METER AND VENT OPENING.
- (N-21) ROUTE THE CONDENSATE DRAIN PIPING ON TO THE ADJACENT PLANTER ON THE SOUTH SIDE OF THE ELEVATOR MACHINE ROOM. MAKE SURE THAT CONDENSATE DRAINAGE WILL NOT SPILL ON WALKWAYS OR A PAVED AREA.
- (N-22) ALL THE SCOPE OF WORK OUTLINED IN ELEVATOR SPEC (SPEC VOLUME #2) PLUS THE SCOPE LABELED IN THIS DRAWINGS TO BE PRICED AS SEPARATE PRICE #2



1 GROUND FLOOR - POWER AND SYSTEMS



2 SECOND FLOOR - POWER AND SYSTEMS



1 GROUND FLOOR PART PLAN - MECHANICAL ROOM - DEMOLITION

E301

DEVICE NUMBER	DESCRIPTION
◇	EXISTING LOCKED SPLITTER (TO BE REMOVED) 800A, 3W
◇	EXISTING MAIN DISCONNECT SWITCH (TO BE REMOVED) 800A, 120/240V, 1PH, FED FROM HYDRO TRANSFORMER
◇	EXISTING METER CABINET (TO BE REMOVED)
◇	EXISTING DISTRIBUTION PANEL 'DP-1' (TO BE REMOVED) 800A, 120/240V, 1PH, 3W, FED FROM MAIN DISCONNECT SWITCH
◇	EXISTING SEWAGE PUMP ALARM AND PIT LIGHTS SWITCH (TO REMAIN)
◇	EXISTING SUB-PANEL A (TO BE REMOVED) 100A, 120/240V, 1PH, 3W, 20 CCTS, FED FROM PANEL A
◇	EXISTING PANEL A (TO BE REMOVED) 225A, 120/240V, 1PH, 3W, 42 CCTS, FED FROM PANEL 'DP-1'
◇	EXISTING PANEL B (TO BE REMOVED) 400A, 120/240V, 1PH, 3W, 42 CCTS, FED FROM PANEL 'DP-1'
◇	EXISTING TIMER AND JUNCTION BOX (TO REMAIN)
◇	EXISTING OUTDOOR LIGHT TIMER (TO BE REMOVED)

GENERAL NOTES:

- ALL GENERAL NOTES IN DRAWING E100 IS APPLICABLE TO THIS DRAWING.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO TRACE THE WIRING BEFORE DEMOLITION AND VERIFY THAT THE EXISTING SCHEDULE OF THE FEEDING PANEL IS ACCURATE. IN THE CASE THAT THERE IS ANY CONFLICT, MARKUP THE EQUIPMENT ON THE AS-BUILT DRAWING AND NOTIFY THE CONSULTANT AND THE CLIENT.

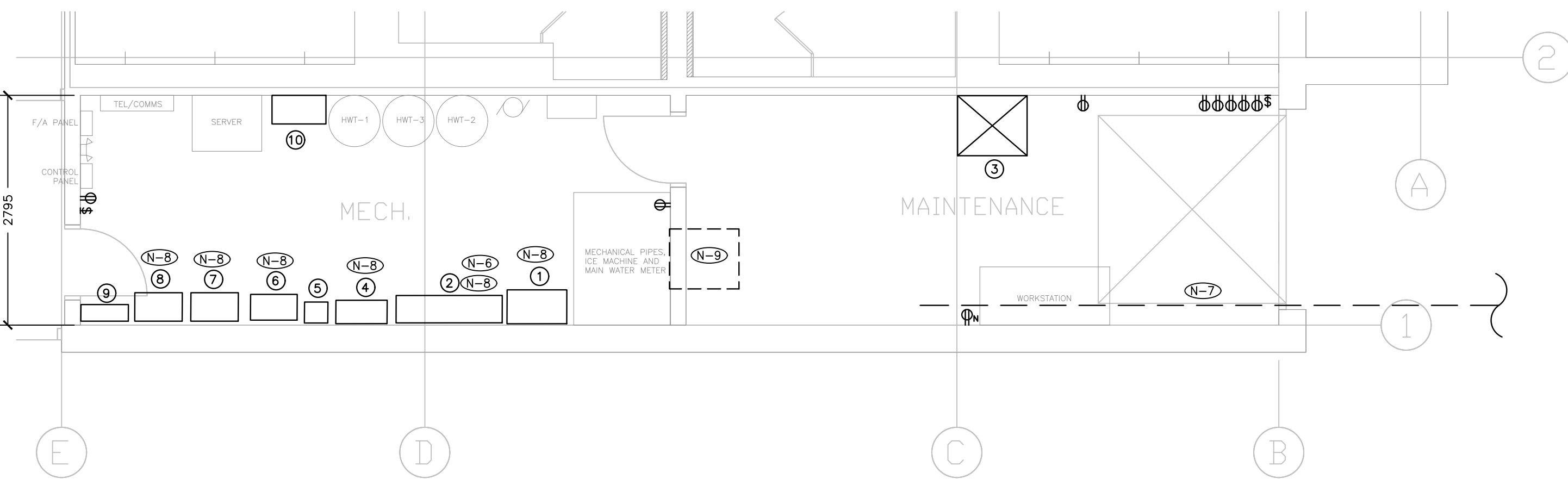
IDENTIFIED PRICE #2

DEMOLITION NOTES:

- (N-1) REMOVE AND DISPOSE ALL EXISTING RECEPTACLES ALONG WITH THEIR WIRING AS INDICATED. MAKE SAFE THE CONDUITS FOR NEW INSTALLATION.
- (N-2) REMOVE AND DISPOSE ALL EXISTING LIGHT SWITCHES ALONG WITH THEIR WIRING AS INDICATED. MAKE SAFE THE CONDUITS FOR NEW INSTALLATION.
- (N-3) REMOVE/RELOCATE EQUIPMENT AS INDICATED IN THE TABLE.
- (N-4) EXISTING OUTDOOR LIGHT TIMER TO BE REPLACED WITH NEW EXTERIOR LIGHTING CONTROLLER. REFER TO DETAIL 2/E600.

NO.	DATE	DESCRIPTION
11	2024.03.14	RE-ISSUED FOR TENDER
10	2024.02.27	RE-ISSUED FOR TENDER
09	2023.08.01	RE-ISSUED FOR TENDER
08	2023.03.30	ISSUED FOR TENDER
07	2023.01.16	RE-ISSUED TO INCLUDE ELEVATOR SCOPE
06	2022.10.18	ISSUED FOR ESA PLAN REVIEW/PERMIT
05	2022.02.11	ISSUED FOR 100% REVIEW
04	2021.06.02	RE-ISSUED FOR HYDRO COORDINATION
03	2021.01.20	ISSUED FOR HYDRO COORDINATION
02	2020.11.23	ISSUED FOR 90% REVIEW
01	2020.09.28	ISSUED FOR 50% REVIEW

REVISIONS AND ISSUES



2 GROUND FLOOR PART PLAN - MECHANICAL ROOM - NEW

E301

DEVICE NUMBER	DESCRIPTION
①	NEW FUSIBLE DISCONNECT SWITCH 400A, 600V, 3PH, 4W, MAKE SCHNEIDER ELECTRIC CAT#: H365N (50.25"Hx27.63"Wx10.13"D) PROVIDE NEW PULL BOX UNDER NEW DISCONNECT TO ALECTRA REQUIREMENTS.
②	NEW METERING CABINET (48"Hx48"Wx12"D) AS PER ALECTRA STANDARDS
③	NEW TRANSFORMER 'TX-1' ON NEW 4" CONCRETE PAD 75KVA, 600V:120/208V, 3PH, DY, CU, (33.5"Hx30"Wx28"D) MANUFACTURER: SCHNEIDER ELECTRIC, CAT#: EXN75165HCU OR APPROVED EQUAL. COORDINATE REMOVAL OF EXISTING CABINETS WITH THE FACILITY TO INSTALL NEW TRANSFORMER.
④	NEW DISTRIBUTION PANEL DP, 400A, 600/347V, 3PH, 4W, NEMA TYPE 1, 42 CCTS MANUFACTURER: SCHNEIDER ELECTRIC, CAT#: INTERIOR:NF442L4, BOX: MH56(56HX20"X5.75"D)
⑤	EXISTING SEWAGE PUMP ALARM AND PIT LIGHTS SWITCH
⑥	NEW DISTRIBUTION PANEL 'DP-1' 400A, 120/208V, 3PH, 4W, 10KA, 42CCTS, CU, (91"Hx32"Wx9.5"D) MANUFACTURER: SCHNEIDER ELECTRIC, CAT#: I-LINE HC3291B OR APPROVED EQUAL
⑦	NEW PANEL A (TO REPLACE EXISTING PANEL "A" AND SUBPANEL "A") 225A, 120/208V, 3PH, 4W, 10KA, 72CCTS, CU, (44"Hx32"Wx6"D) MANUFACTURER: SCHNEIDER ELECTRIC, CAT#: NQ472L2C OR APPROVED EQUAL
⑧	NEW PANEL B (HEATING) 400A, 120/208V, 3PH, 4W, 10KA, CU, 72CCTS (62"Hx20"Wx6"D) MANUFACTURER: SCHNEIDER ELECTRIC, CAT#: NQ472L4C OR APPROVED EQUAL
⑨	NEW EXTERIOR LIGHTING CONTROLLER MANUFACTURER: GE, CAT#: TIMER SWITCH-46537 OR APPROVED EQUAL
⑩	NEW 36"x36" METERING CABINET COMPLETE WITH INSTRUMENT TRANSFORMERS AND DIGITAL METER.

GENERAL NOTES:

- ALL GENERAL NOTES IN DRAWING E101 IS APPLICABLE TO THIS DRAWING.
- PROVIDE SUITABLE LABELS ON ALL RECEPTACLES AND LIGHTING SWITCHES FEEDS. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT AND FACILITY MANAGEMENT PRIOR TO INSTALLATION.
- COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH FACILITY MANAGEMENT.

IDENTIFIED PRICE #2

DRAWING NOTES:

- (N-1) SUPPLY AND INSTALL NEW 120V RECEPTACLES ALONG WITH WIRING. REUSE EXISTING CONDUITS. MODIFY GROUNDING TO RECEPTACLES TO MEET THE LATEST CODE REQUIREMENTS.
- (N-2) SUPPLY AND INSTALL NEW LIGHT SWITCHES ALONG WITH WIRING. REUSE EXISTING CONDUITS. MODIFY GROUNDING TO RECEPTACLES TO MEET THE LATEST CODE REQUIREMENTS.
- (N-3) ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL NEW TRANSFORMER, PANELS AND WIRING AS INDICATED. EXISTING CONDUITS TO BE PROPERLY LABELED AND RE-USED FOR NEW INSTALLATIONS. PROVIDE NEW CONDUITS FOR PRIMARY AND SECONDARY OF THE TRANSFORMER 'TX-1'.
- (N-4) CONNECT THE EXISTING LOADS OF DISTRIBUTION PANEL 'DP-1', SUB-PANEL A, PANEL A AND PANEL B TO THE NEW PANEL 'DP-1', NEW PANEL A AND NEW PANEL B. CONNECT THE LOADS OF THE EXISTING SUB-PANEL A TO THE NEW PANEL A.
- (N-5) LABEL CIRCUIT NUMBERS ON ALL LIGHTING SWITCHES, EQUIPMENT SWITCHES AND RECEPTACLES.
- (N-6) PROVIDE METERING CABINET AS INDICATED COMPLETE WITH A MINIMUM OF FOUR FASTENERS AND REMOVABLE CABINET BACK PANEL. PROVIDE A 120V RECEPTACLE INSIDE THE METERING CABINET. PROVIDE A WALL MOUNTED TELEPHONE BOX AS PER ALECTRA STANDARDS. COORDINATE WITH ALECTRA FOR METERING INSTALLATION REQUIREMENTS.
- (N-7) SUPPLY AND INSTALL NEW INCOMING FEEDERS IN EXISTING 4" INCOMING DUCT BANKS FROM PAD-MOUNTED OUTDOOR 300KVA, 3PH TRANSFORMER TO THE MAIN 400A, 600V, 3PH DISTRIBUTION PANEL AS INDICATED. RE-USE/EXTEND EXISTING 4" DUCT BANK TO SUIT DESIGN.
- (N-8) INSTALL NEW DEVICES AS CLOSE AS POSSIBLE TO EXISTING DEVICE LOCATION TO MINIMIZE REQUIRED BRANCH CIRCUIT CONDUITS MODIFICATIONS.
- (N-9) SUPPLY AND INSTALL NEW 36"x36" METERING CABINET WITH THREE METER COMPLETE WITH METERING TRANSFORMERS AND ALL REQUIRED ACCESSORIES. ONE METER WILL MEASURE THE FEEDER OF MAIN DISTRIBUTION PANEL AND TWO OTHER WILL MEASURE THE DISTRIBUTION TRANSFORMERS TX-1 AND TX-2 IN MAIN MECHANICAL ROOM AND SECOND FLOOR ELECTRICAL ROOM. THE METER SHOULD BE SHNEIDER POWER LOGIC PM8000
- (N-10) PROVIDE NEW 2-DUCT U/G DUCT BANK FROM NEW TRANSFORMER TO THE SERVICE ENTRANCE DISCONNECT LOCATION. CUT FLOOR SLAB AT SHOWN LOCATION NEXT TO THE FOUNDATION WALL. EXCAVATE THE AREA, CORE THROUGH THE FOUNDATION WALL AND RUN DUCTS IN CRAWL SPACE UNDER MECHANICAL ROOM. UTILIZE AND MODIFY EXISTING STUB-UP LOCATION AS REQUIRED TO MAKE CONNECTION TO THE NEW PULL BOX AND DISCONNECT. ALLOW FOR X-RAY REFER TO DETAIL 1/E602 FOR FURTHER DETAIL. REFER TO CIVIL ENGINEER'S DRAWINGS FOR EXTEND OF STRUCTURAL WORK. ALL CITY OF BRAMPTON INSTRUCTIONS FOR WORK IN CRAWL SPACE TO BE FOLLOWED.

SEPARATE PRICE #1

PROJECT CONTACT

NAME:	REZA MADANI
TEL:	647-943-6776
EMAIL:	Reza.Madani@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



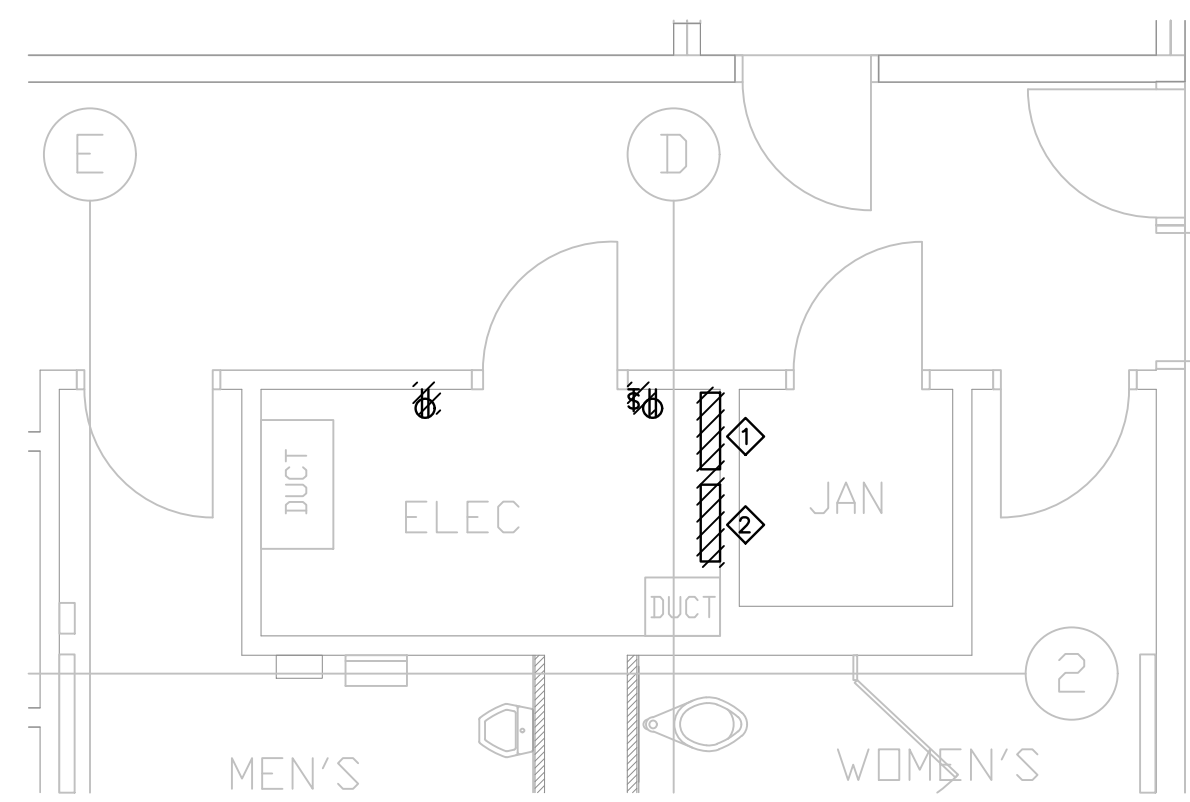
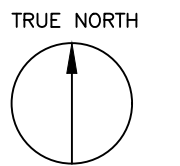
1100 - 100 Sheppard Ave. East, Toronto, ON, M2N 6N5
416 487 8151 | 416 487 9104 | smithandandersen.com

PROFESSOR'S LAKE RECREATION CENTRE
1660 NORTH PARK DR., BRAMPTON, ON

POWER DISTRIBUTION, ASPHALT AND LIGHT STANDARD REPLACEMENT

GROUND FLOOR MECHANICAL ROOM POWER AND SYSTEMS

project no.: 20257.001.E.001
scale: 1:50
date: JULY 2020



DEVICE NUMBER	DESCRIPTION
◇	EXISTING PANEL D (TO BE REMOVED) 400A, 120/240V, 1PH, 3W, 30 CCTS, FED FROM PANEL 'DP-1'
◇	EXISTING PANEL C (TO BE REMOVED) 225A, 120/240V, 1PH, 3W, 42 CCTS, FED FROM PANEL 'DP-1'

- GENERAL NOTES:**
- ALL GENERAL NOTES IN DRAWING E100 IS APPLICABLE TO THIS DRAWING.
 - ELECTRICAL CONTRACTOR IS RESPONSIBLE TO TRACE THE WIRING BEFORE DEMOLITION AND VERIFY THAT THE EXISTING SCHEDULE OF THE FEEDING PANEL IS ACCURATE. IN THE CASE THAT THERE IS ANY CONFLICT, MARKUP THE EQUIPMENT ON THE AS-BUILT DRAWING AND NOTIFY THE CONSULTANT AND THE CLIENT.

IDENTIFIED PRICE #2

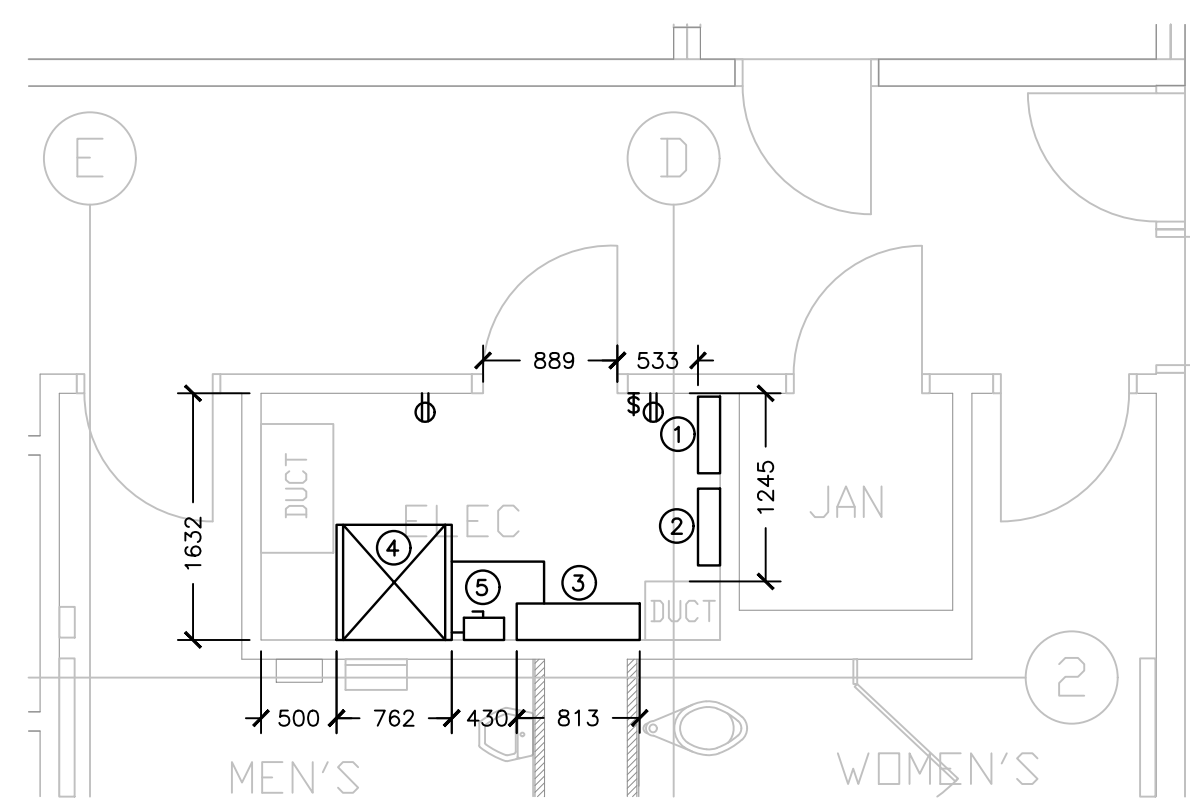
- DEMOLITION NOTES:**
- (N-1)** REMOVE AND DISPOSE ALL EXISTING RECEPTACLES ALONG WITH THEIR WIRING AS INDICATED. MAKE SAFE THE CONDUITS FOR NEW INSTALLATION.
 - (N-2)** REMOVE AND DISPOSE ALL EXISTING LIGHT SWITCHES ALONG WITH THEIR WIRING AS INDICATED. MAKE SAFE THE CONDUITS FOR NEW INSTALLATION.
 - (N-3)** REMOVE/RELOCATE EQUIPMENT AS INDICATED IN THE TABLE.

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION
11	2024.03.14	RE-ISSUED FOR TENDER
10	2024.02.27	RE-ISSUED FOR TENDER
09	2023.08.01	RE-ISSUED FOR TENDER
08	2023.03.30	ISSUED FOR TENDER
07	2023.01.16	RE-ISSUED TO INCLUDE ELEVATOR SCOPE
06	2022.10.18	ISSUED FOR ESA PLAN REVIEW/PERMIT
05	2022.02.11	ISSUED FOR 100% REVIEW
04	2021.06.02	RE-ISSUED FOR HYDRO COORDINATION
03	2021.01.20	ISSUED FOR HYDRO COORDINATION
02	2020.11.23	ISSUED FOR 90% REVIEW
01	2020.09.28	ISSUED FOR 50% REVIEW

1 SECOND FLOOR PART PLAN – ELECTRICAL ROOM – DEMOLITION

E302



DEVICE NUMBER	DESCRIPTION
①	NEW PANEL D (HEATING) 250A, 120/208V, 3PH, 4W, 10KA, CU, 42CCTS (50"Hx20"Wx6"D) MANUFACTURER: SCHNEIDER ELECTRIC, CAT#: NQ442L4C OR APPROVED EQUAL
②	NEW PANEL C 225A, 120/208V, 3PH, 4W, 10KA, CU, 72CCTS (44"Hx20"Wx6"D) MANUFACTURER: SCHNEIDER ELECTRIC, CAT#: NQ472L2C OR APPROVED EQUAL
③	NEW DISTRIBUTION PANEL 'DP-2' 400A, 120/208V, 3PH, 4W, 10KA, 18CCTS, CU, (48"Hx32"Wx9.5"D) MANUFACTURER: SCHNEIDER ELECTRIC, CAT#: HC3248B OR APPROVED EQUAL
④	NEW TRANSFORMER 'TX-2' ON WALL BRACKETS 75KVA, 600V:120/208V, 3PH, DY, CU, (33.5"Hx30"Wx28"D) MANUFACTURER: SCHNEIDER ELECTRIC, CAT#: EXN75T65HCU OR APPROVED EQUAL. PROVIDE SUPPORT FROM CEILING AS WELL
⑤	NEW DISCONNECT SWITCH 'DS-TX-2' 100A (UNFUSED), 600V, 3PH, 4W, CU, (21.5"Hx10.5"Wx6.5"D) MANUFACTURER: SCHNEIDER ELECTRIC, CAT#: CHU363 OR APPROVED EQUAL

- GENERAL NOTES:**
- ALL GENERAL NOTES IN DRAWING E101 IS APPLICABLE TO THIS DRAWING.
 - PROVIDE SUITABLE LABELS ON ALL RECEPTACLES AND LIGHTING SWITCHES FEEDS. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT AND FACILITY MANAGEMENT PRIOR TO INSTALLATION.
 - COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH FACILITY MANAGEMENT.

IDENTIFIED PRICE #2

- DRAWING NOTES:**
- (N-1)** SUPPLY AND INSTALL NEW 120V RECEPTACLES ALONG WITH NEW WIRING. REUSE EXISTING CONDUITS. MODIFY GROUNDING TO RECEPTACLES TO MEET THE LATEST CODE REQUIREMENTS.
 - (N-2)** SUPPLY AND INSTALL NEW LIGHT SWITCHES ALONG WITH NEW WIRING. REUSE EXISTING CONDUITS.
 - (N-3)** ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL NEW TRANSFORMER, PANELS, DISCONNECT SWITCHES AND WIRING AS INDICATED. PROVIDE NEW CONDUITS AND WIRING AS REQUIRED.
 - (N-4)** CONNECT THE EXISTING LOADS OF PANEL C AND PANEL D TO THE NEW PANEL C AND NEW PANEL D.
 - (N-5)** LABEL CIRCUIT NUMBERS ON ALL LIGHTING SWITCHES, EQUIPMENT SWITCHES AND RECEPTACLES.
 - (N-6)** 75KVA TRANSFORMER TO BE INSTALLED ON WALL BRACKETS AND ALSO SUPPORTED FROM THE CEILING. EXACT LOCATION TO BE DETERMINED ON SITE.

2 SECOND FLOOR PART PLAN – ELECTRICAL ROOM – NEW

E302

PROJECT CONTACT

NAME: REZA MADANI
TEL: 647-943-6776
EMAIL: Reza.Madani@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



Smith + Andersen
1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
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PROFESSOR'S LAKE RECREATION CENTRE
1660 NORTH PARK DR., BRAMPTON, ON

**POWER DISTRIBUTION,
ASPHALT AND LIGHT
STANDARD REPLACEMENT**

**SECOND FLOOR
ELECTRICAL ROOM
POWER AND SYSTEMS**

project no.: 20257.001.E.001
scale: 1:50
date: JULY 2020

NO.	DATE	DESCRIPTION
11	2024.03.14	RE-ISSUED FOR TENDER
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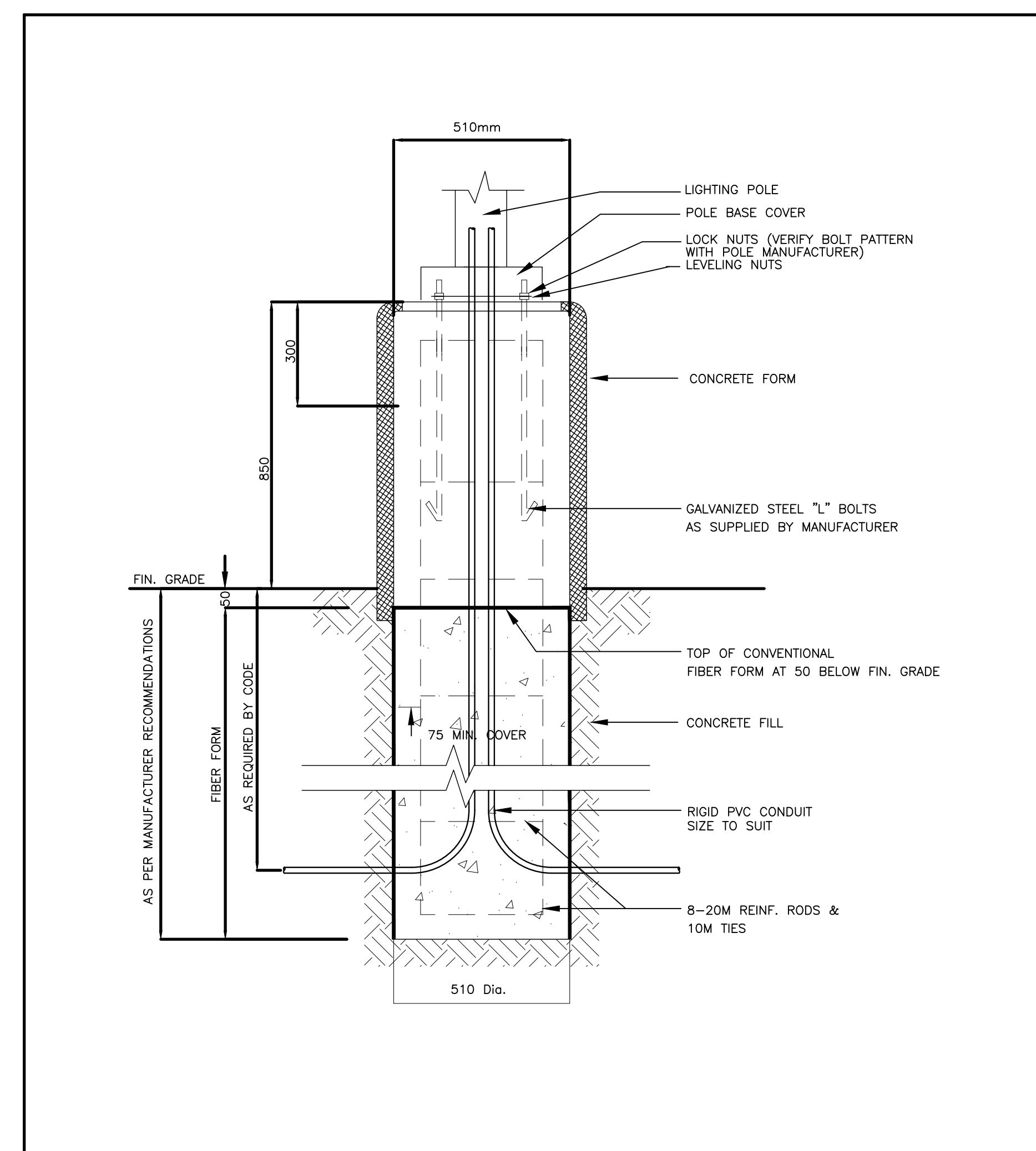
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PROFESSOR'S LAKE RECREATION CENTRE
1660 NORTH PARK DR., BRAMPTON, ON

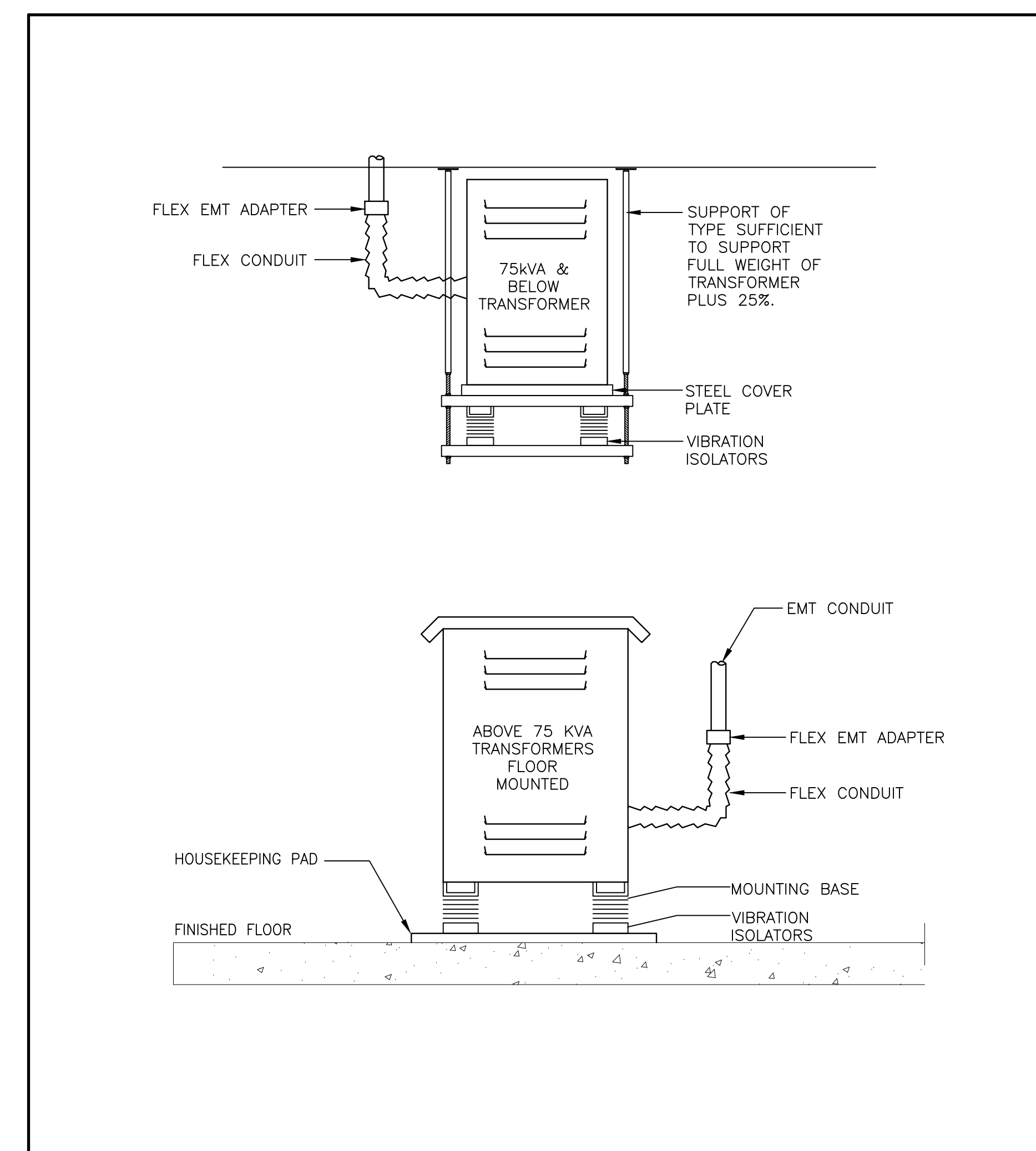
POWER DISTRIBUTION, ASPHALT AND LIGHT STANDARD REPLACEMENT

ELECTRICAL DETAILS PART 1

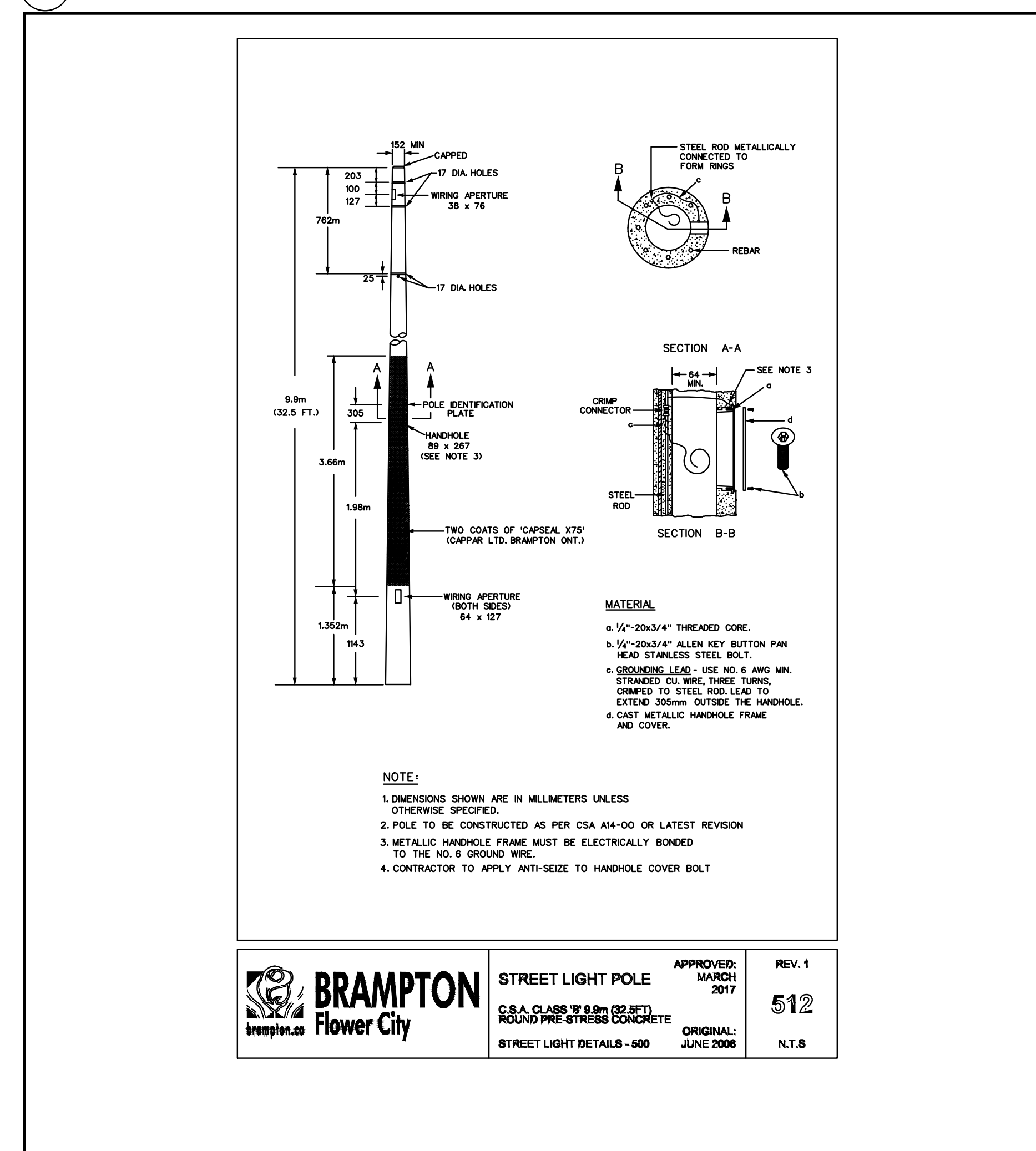
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date: JULY 2020



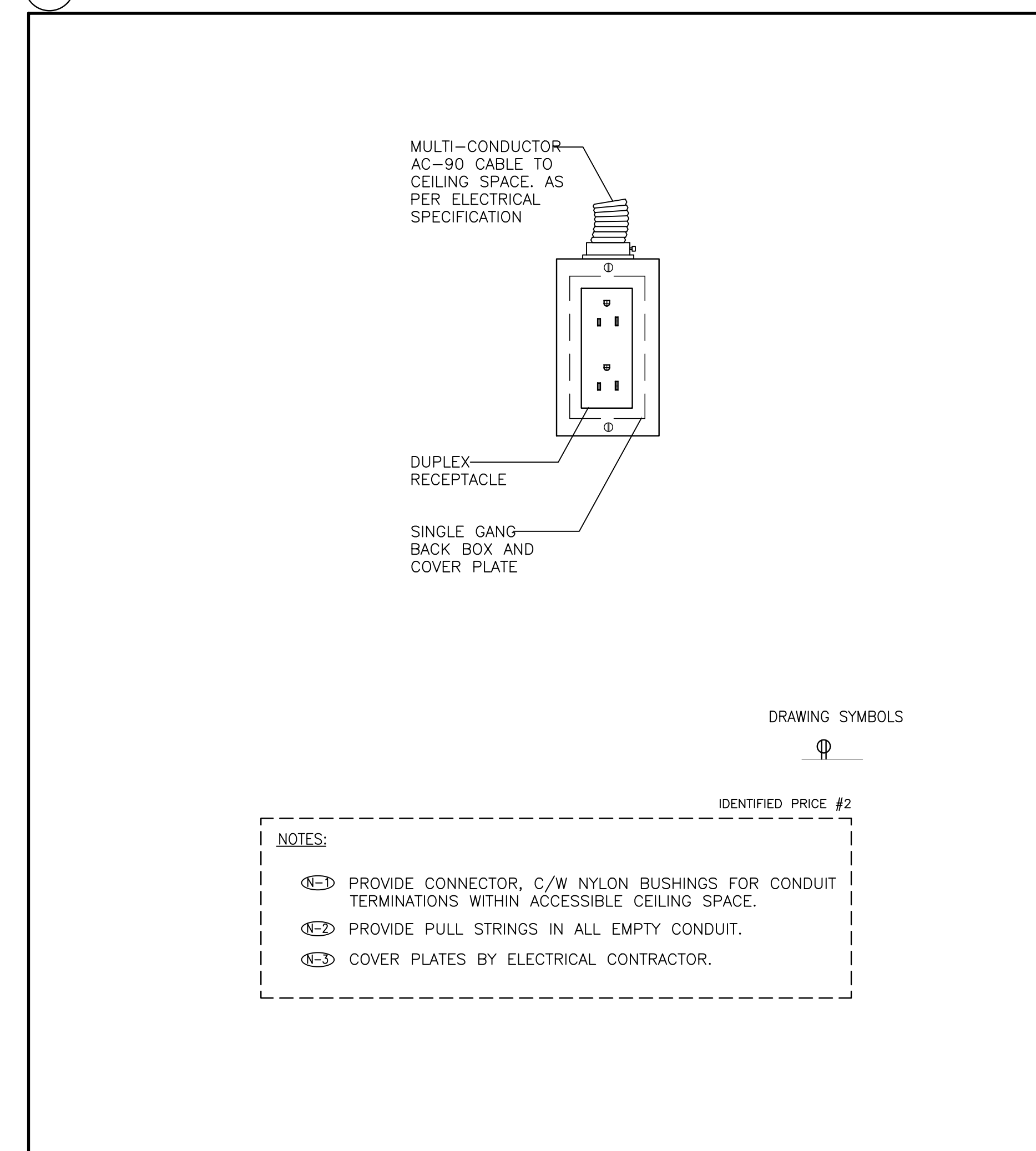
5 LIGHTING STANDARD BASE
E600



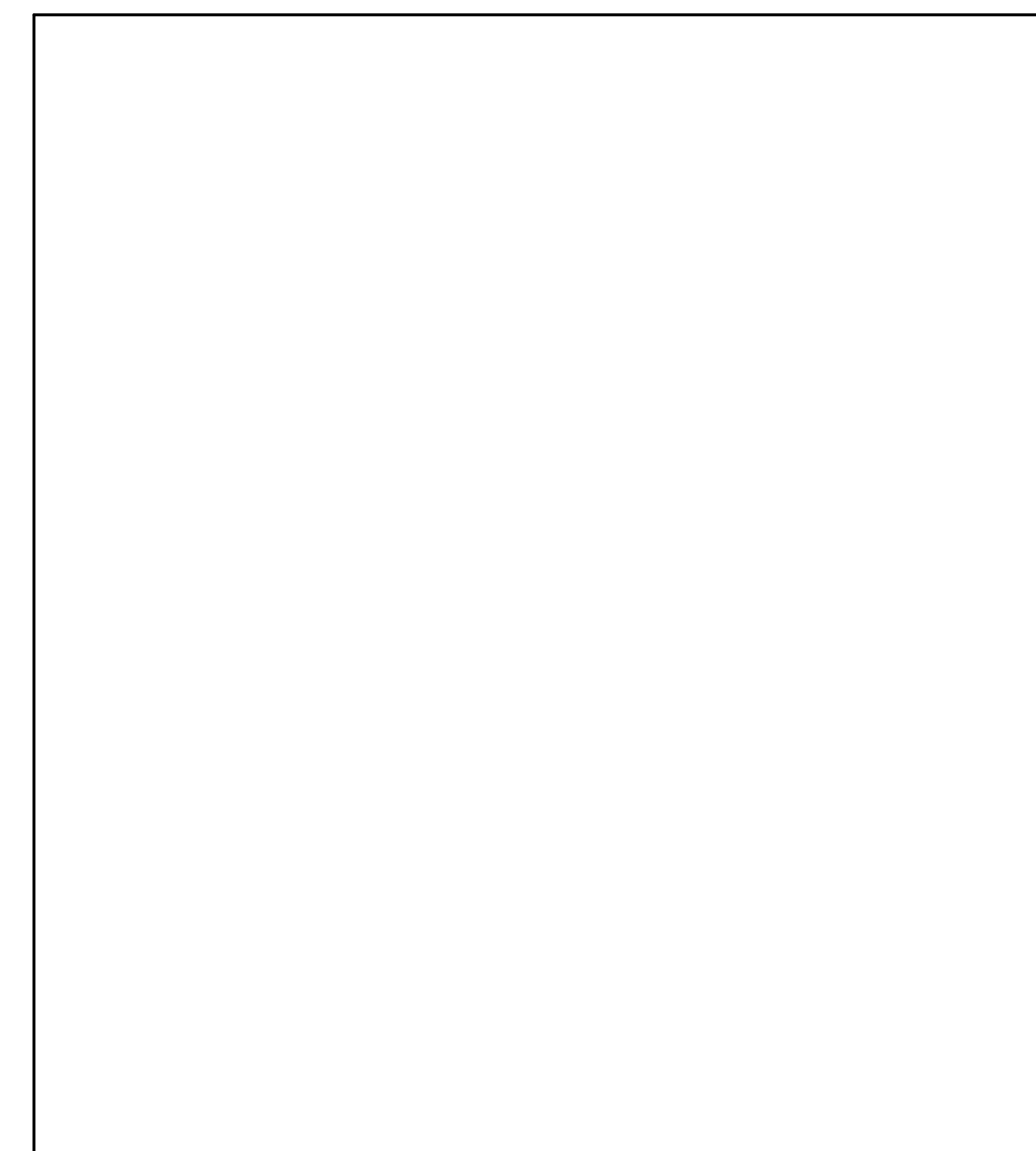
3 TRANSFORMER INSTALLATION DETAIL
E600



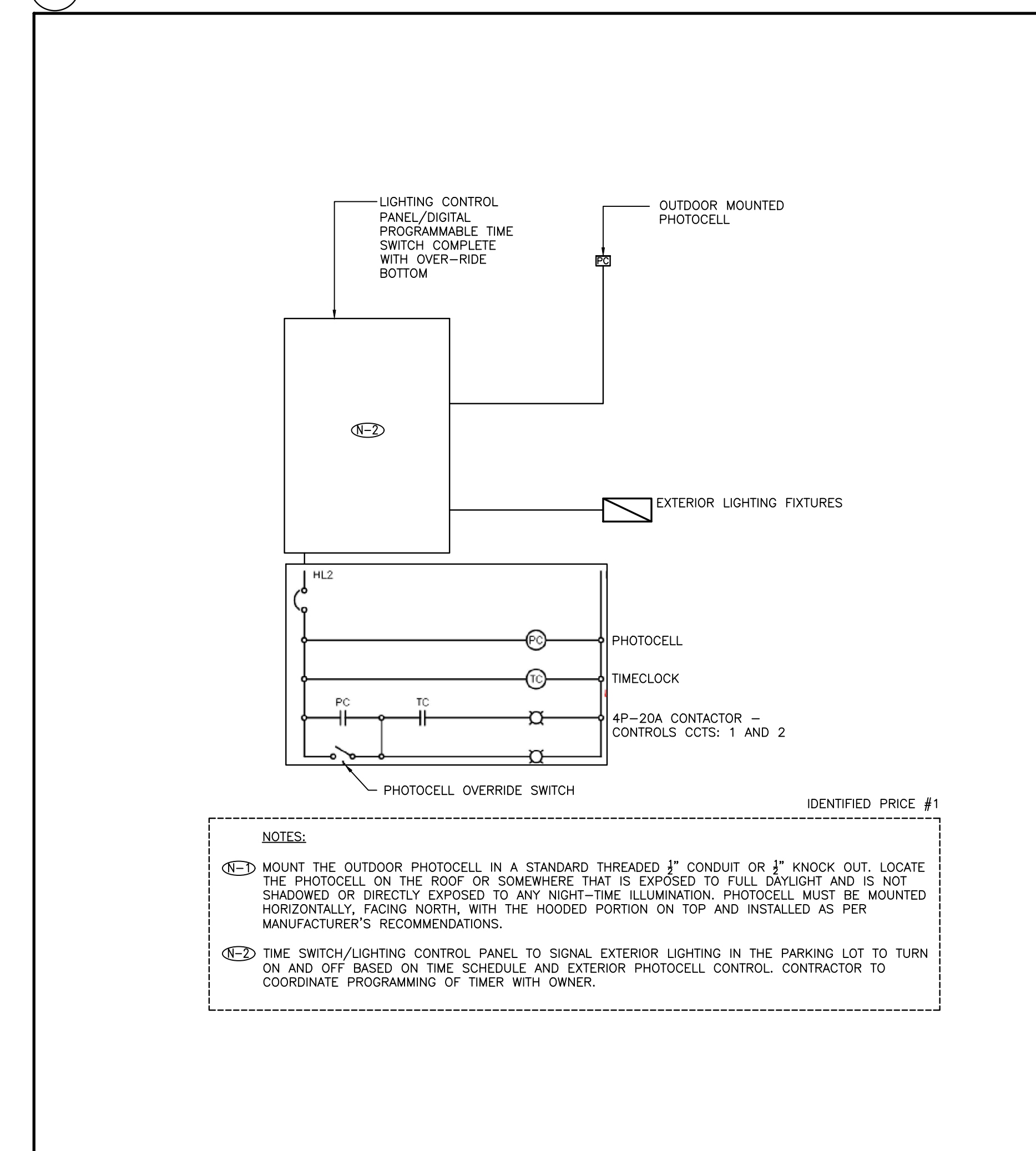
6 LIGHTING POLE DETAIL
E600



4 POWER OUTLET
E600



1 NOT USED
E600



2 OUTDOOR LIGHTING CONTROL SCHEMATIC
E600

BRAMPTON Flower City
STREET LIGHT POLE
C.S.A. CLASS BY 8.9m (29.5 FT.)
ROUND PRE-STRESS CONCRETE
STREET LIGHT DETAILS - 500
APPROVED: MARCH 2017
REV. 1
512
ORIGINAL: JUNE 2008
N.T.S.



7 WATER FOUNTAIN AND SINK IN GROUND FLOOR (TO BE REMOVED)
E601



5 EXISTING PANELS C AND D LOCATED IN 2ND FLOOR - ELEC. ROOM
E601



3 EXISTING PANEL 'DP-1' LOCATED IN GROUND FLOOR - MECH. ROOM
E601



1 EXISTING HYDRO TRANSFORMER
E601

PRICING GUIDE:

SEPARATE PRICE #1: ALTERNATE ROUTE AS PER DETAIL S08 OF DWG S.04
 IDENTIFIED PRICE #1: ASPHALT AND LIGHTING SCOPE INCLUDING ALL SCOPE IN DWG S.01 TO S.04 OTHER THAN MARKED AS SEPARATE PRICE #1 PLUS THE SCOPE OF LIGHTING MARKED IN ELECTRICAL DRAWINGS
 IDENTIFIED PRICE #2: ALL ELECTRICAL SCOPE OTHER THAN OUTDOOR LIGHTING MARKED IN ELECTRICAL
 IDENTIFIED PRICE #3: ALL ELEVATOR UPGRADE SCOPE OF WORK MARKED IN ELECTRICAL DRAWINGS.

LEGEND

- SEPARATE PRICE #1
- IDENTIFIED PRICE #1
- - - - - IDENTIFIED PRICE #2
- · — · — IDENTIFIED PRICE #3

8 PRICING GUIDE & LEGEND
E601



6 TYPICAL EXISTING LIGHTING POLE
E601



4 EXISTING SUB-PANEL A, PANELS A AND B LOCATED IN MECH. ROOM
E601



2 EXISTING MAIN 800A DISCONNECT SWITCH LOCATED IN MECH. ROOM
E601

NO.	DATE	DESCRIPTION
11	2024.03.14	RE-ISSUED FOR TENDER
10	2024.02.27	RE-ISSUED FOR TENDER
09	2023.08.01	RE-ISSUED FOR TENDER
08	2023.03.30	ISSUED FOR TENDER
07	2023.01.16	RE-ISSUED TO INCLUDE ELEVATOR SCOPE
06	2022.10.18	ISSUED FOR ESA PLAN
05	2022.02.11	ISSUED FOR 100% REVIEW
04	2021.06.02	RE-ISSUED FOR HYDRO COORDINATION
03	2021.01.20	ISSUED FOR HYDRO COORDINATION
02	2020.11.23	ISSUED FOR 90% REVIEW
01	2020.09.28	ISSUED FOR 50% REVIEW
NO.	DATE	DESCRIPTION
REVISIONS AND ISSUES		

PROJECT CONTACT

NAME: REZA MADANI
 TEL: 647-943-6776
 EMAIL: Reza.Madani@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



1100 - 100 Sheppard Ave. East, Toronto ON, M2N 6N5
 416 487 8151 / 416 487 9104 smithandandersen.com

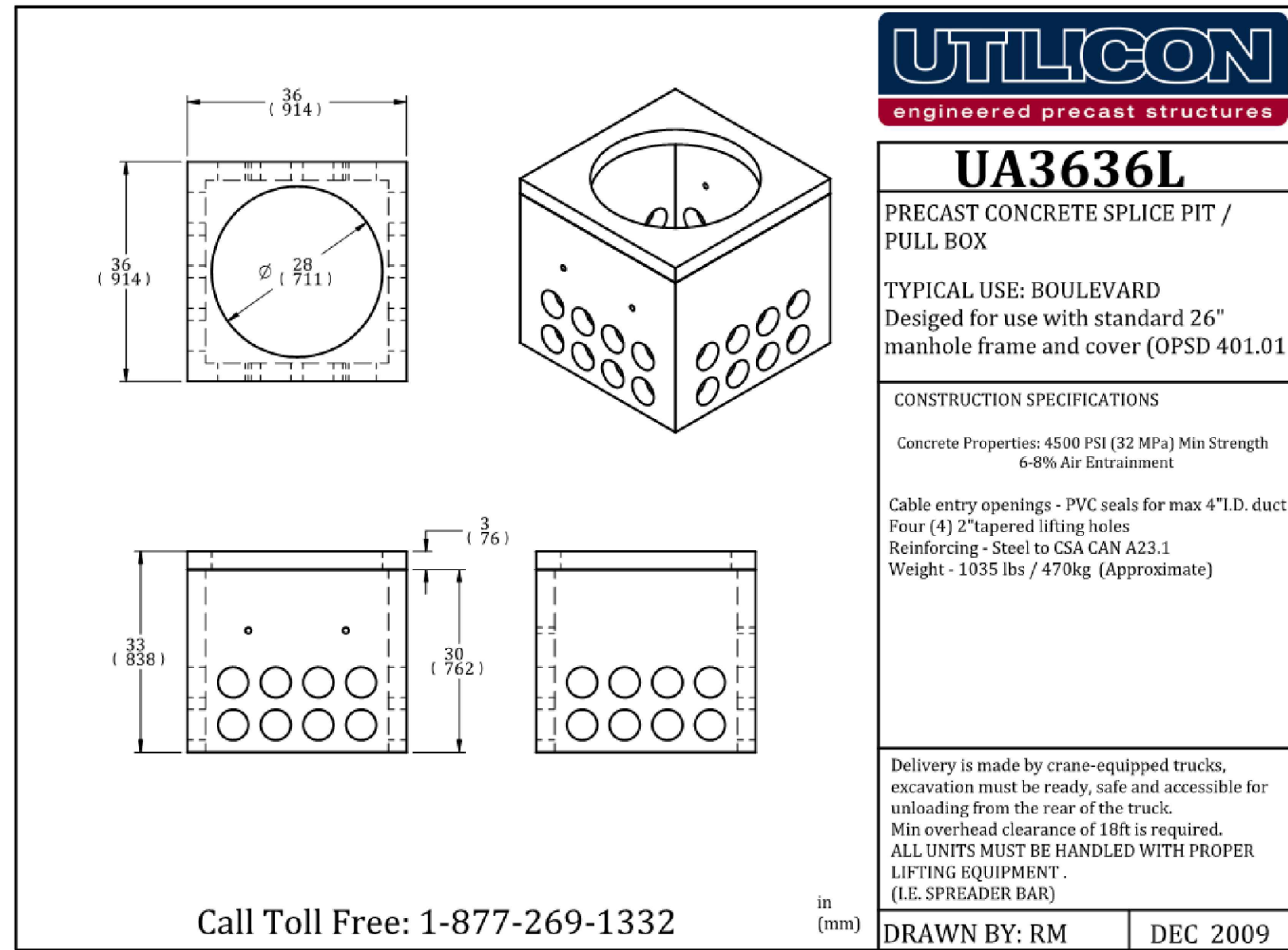
PROFESSOR'S LAKE RECREATION CENTRE
 1660 NORTH PARK DR., BRAMPTON, ON

POWER DISTRIBUTION,
 ASPHALT AND LIGHT
 STANDARD REPLACEMENT

ELECTRICAL DETAILS
 PART 2

project no.: 20257.001.E.001
 scale: N.T.S
 date: JULY 2020

PRECAST CONCRETE PULL BOX
MAN.: UTILICON, CAT#: UA3636L OR APPROVED EQUAL



UTILICON
engineered precast structures

UA3636L
PRECAST CONCRETE SPLICE PIT / PULL BOX

TYPICAL USE: BOULEVARD
Designed for use with standard 26" manhole frame and cover (OPSD 401.01)

CONSTRUCTION SPECIFICATIONS

Concrete Properties: 4500 PSI (32 MPa) Min Strength
6-8% Air Entrainment

Cable entry openings - PVC seals for max 4" I.D. duct
Four (4) 2" tapered lifting holes
Reinforcing - Steel to CSA CAN A23.1
Weight: - 1055 lbs / 470kg (Approximate)

Delivery is made by crane-equipped trucks, excavation must be ready, safe and accessible for unloading from the rear of the truck.
Min overhead clearance of 10ft is required.
ALL UNITS MUST BE HANDLED WITH PROPER LIFTING EQUIPMENT (I.E. SPREADER BAR)

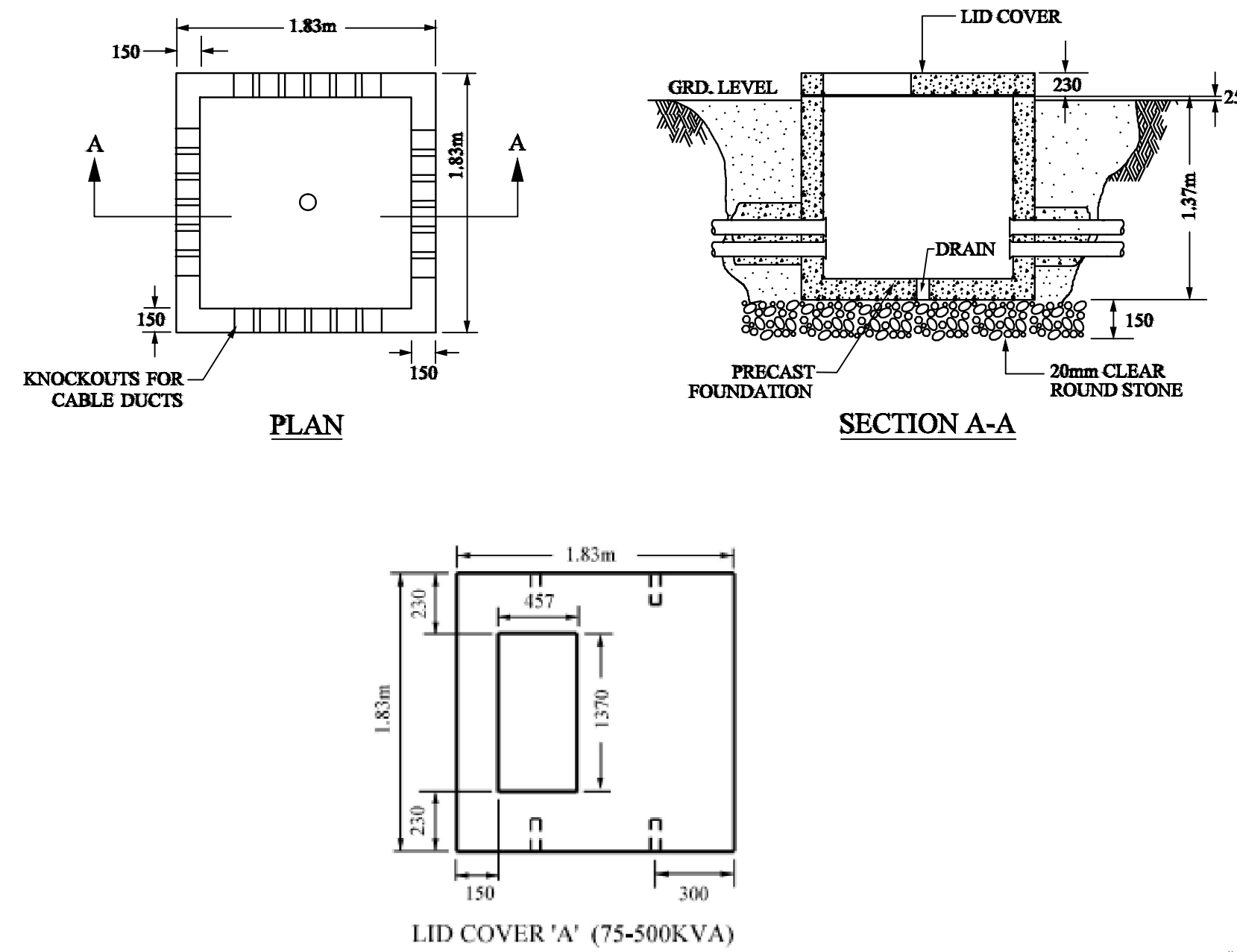
in (mm)
DRAWN BY: RM DEC 2009

Call Toll Free: 1-877-269-1332

- NOTES:
- CONTRACTOR TO PROVIDE REQUIRED SPLICE KITS AND ACCESSORIES TO MEET THE REQUIREMENTS OF BENDING OF THE CABLES AS PER STANDARDS AND MANUFACTURERS' GUIDELINES.
 - CONTRACTOR TO PROVIDE REQUIRED WEATHERPROOF SUPPORTS, ANCHORS, BOLTS, RACKS AND ARMS FOR PROPER INSTALLATION OF THE CABLES INSIDE OF THE MANHOLE.
 - CONTRACTOR TO PROVIDE WEATHERPROOF LABELS FOR CABLES AT THE ENTRANCE AND EXIT OF THE CABLES INSIDE OF THE MANHOLE.

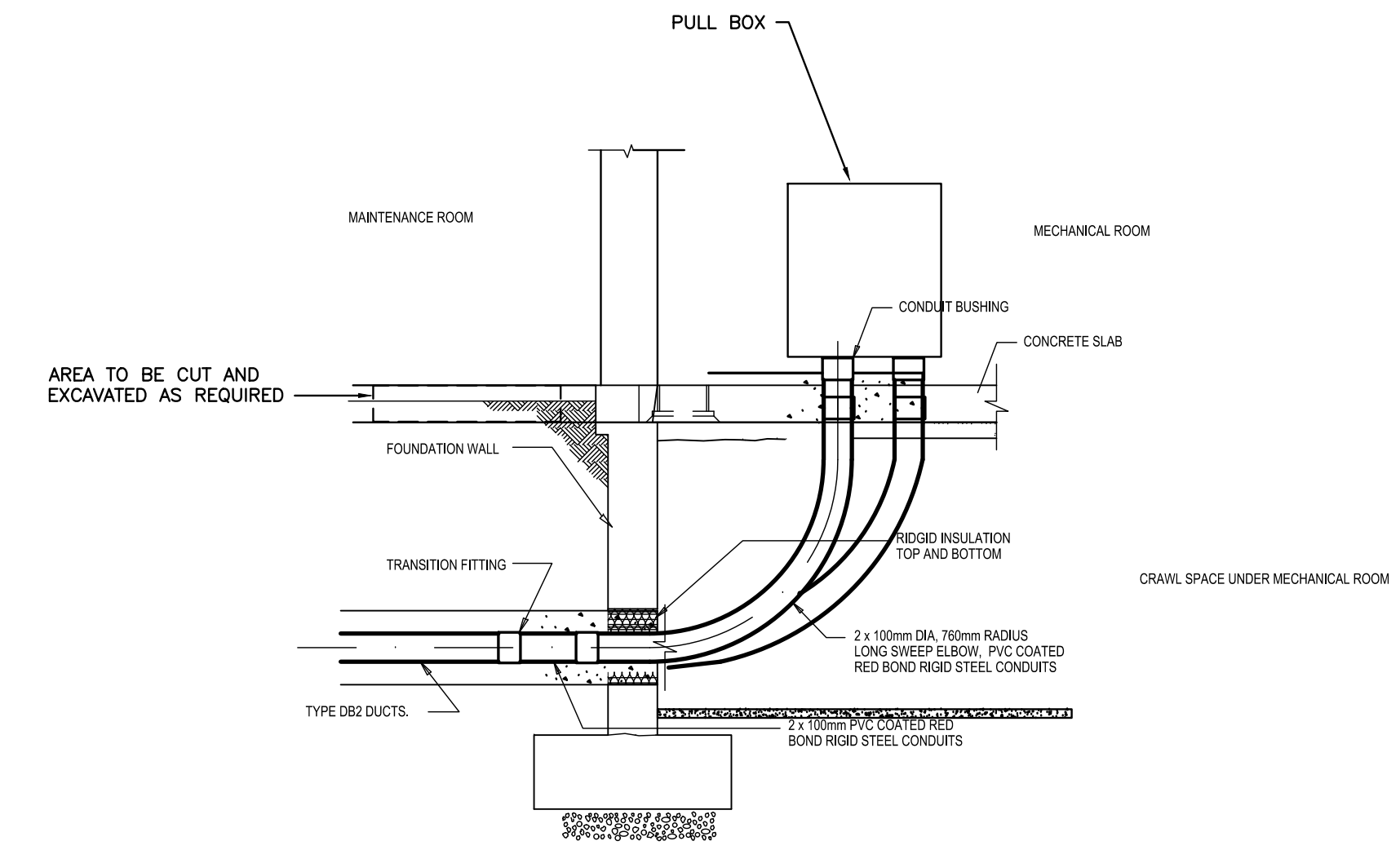
IDENTIFIED PRICE #2

750KVA TRANSFORMER CONCRETE FOUNDATION



- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - FOUNDATION TO BE PRECAST CONCRETE PAD. CONTRACTOR TO DELIVER THE UNIT TO THE SITE.
 - COMPLETE THE EXCAVATION AND PROVIDE BEDDING CONSISTING OF MINIMUM 150mm LAYER OF 20mm CLEAR ROUND STONE.
 - PLACE BACKFILL CONSISTING OF CLEAN EARTH, SAND, OR PEA GRAVEL IN THOROUGHLY COMPACTED LAYERS.
 - PAD LOCATION TO BE KEPT CLEAR OF OBSTRUCTIONS FOR ACCESS BY ALECTRA UTILITIES PERSONNEL OR EQUIPMENT.
 - THE CABLE DUCTS INTO WALL OF FOUNDATION AT KNOCKOUTS AS SPECIFIED BY ALECTRA UTILITIES PERSONNEL. INSTALL BELL ENDS ON PVC DUCTS.
 - REMOVE KNOCKOUT IN FLOOR TO ALLOW FOR DRAINAGE.
 - INSTALL 4-20mm x 3m GROUND RODS AND MIN. #2/O STRANDED COPPER GROUND WIRE.
 - CONTRACTOR WILL BE RESPONSIBLE FOR SEALING DUCT ENDS.
 - POSITION LID OPENING SO THAT TRANSFORMER DOOR IS FACING BUILDING OR PARKING LOT. MAKE SURE DOOR IS NOT FACING ANY WALL STRUCTURE.
 - CONTRACTOR TO PROVIDE REQUIRED SPLICE KITS AND ACCESSORIES TO MEET THE REQUIREMENTS OF BENDING OF THE CABLES AS PER STANDARDS AND MANUFACTURERS' GUIDELINES.
 - CONTRACTOR TO PROVIDE WEATHERPROOF SUPPORTS, ANCHORS, BOLTS, RACKS AND ARMS FOR PROPER INSTALLATION OF THE CABLES INSIDE OF THE FOUNDATION.
 - CONTRACTOR TO PROVIDE WEATHERPROOF LABELS FOR CABLES AT THE ENTRANCE AND EXIT OF THE CABLES INSIDE OF THE FOUNDATION.

IDENTIFIED PRICE #2

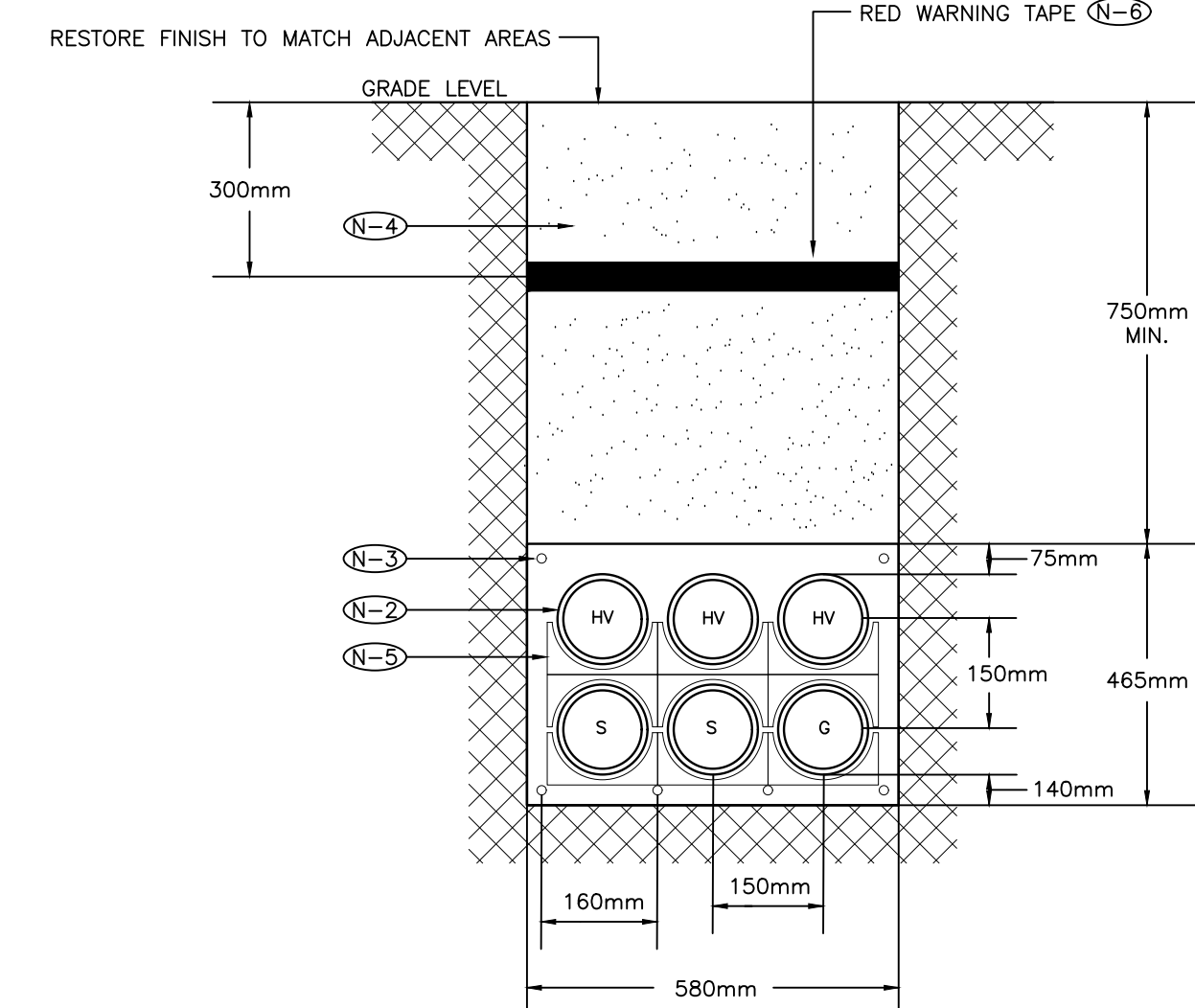


1 DETAIL - POWER CONDUIT ENTRANCE

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08	2023.03.30	ISSUED FOR TENDER
07	2023.01.16	RE-ISSUED TO INCLUDE ELEVATOR SCOPE
06	2022.10.18	ISSUED FOR ESA PLAN
05	2022.02.11	REVIEWER COMMENT
04	2021.06.02	RE-ISSUED FOR HYDRO COORDINATION
03	2021.01.20	ISSUED FOR HYDRO COORDINATION
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01	2020.09.28	ISSUED FOR 50% REVIEW

5 DETAIL - CONCRETE ENCASED PULLBOX

3 DETAIL - TRANSFORMER CONCRETE FOUNDATION



- NOTES:
- 9mm (3/8") POLYPROPYLENE ROPE REQUIRED IN ALL DUCTS
 - 102mm (4") PVC DUCTS C/W BELL ENDS IN 20 MPa CONCRETE (USE MAXIMUM 10mm AGGREGATES ON 20 MPa CONCRETE).
 - 16mm (1/2") REINFORCING RODS (TYPICAL)
 - CLEAN BACKFILL COMPACTED TO 95% STD. PROCTOR DENSITY
 - PRE-FABRICATED DUCT SPACER AND HOLDERS
 - RED WARNING TAPE TO EXTEND THE FULL WIDTH OF TRENCH
 - ALL SPARE DUCTS TO BE CAPPED.
 - DUCT BANK SPECIFICATION AND DETAILS NEED TO BE IN ACCORDANCE WITH ALECTRA UTILITIES SPEC INCLUDING BUT NOT LIMITED TO DUCT BANK STANDARD 37-199, 13-07-29-R10.

LEGEND		
CABLE TAG	CABLE NAME	CABLE DESCRIPTION
HV	HIGH VOLTAGE FEEDER (BY ALECTRA)	HIGH VOLTAGE CABLE FROM HYDRO (ALECTRA)
G	GROUNDING (BY ALECTRA)	GROUNDING CABLE (BY ALECTRA)
S	SPARE	-

2 DETAIL - DUCT BANK

6 NOT USED

4 NOT USED

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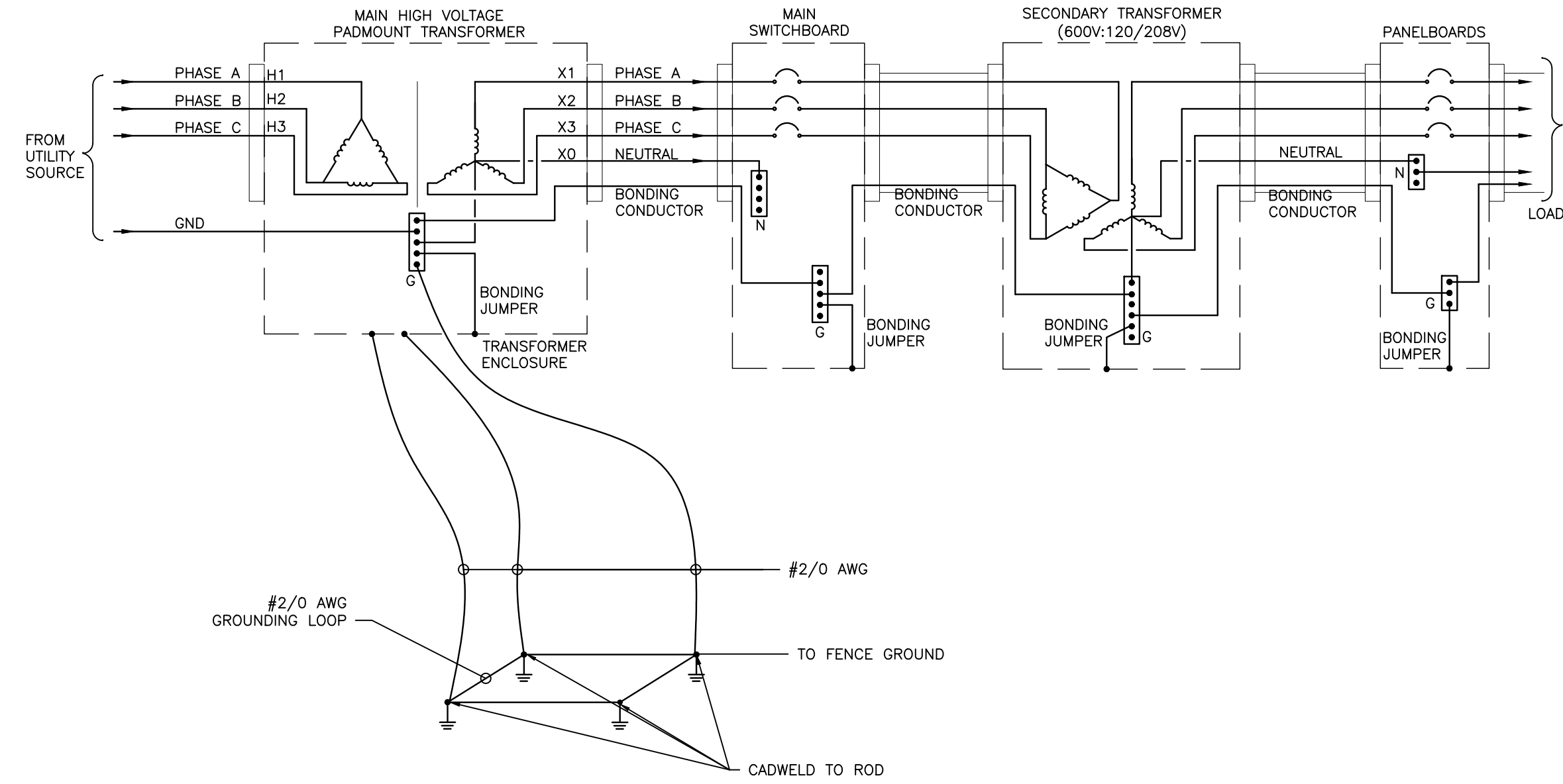
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PROFESSOR'S LAKE RECREATION CENTRE
1660 NORTH PARK DR., BRAMPTON, ON

POWER DISTRIBUTION,
STANDARD AND LIGHT
STANDARD REPLACEMENT

ELECTRICAL DETAILS
PART 3

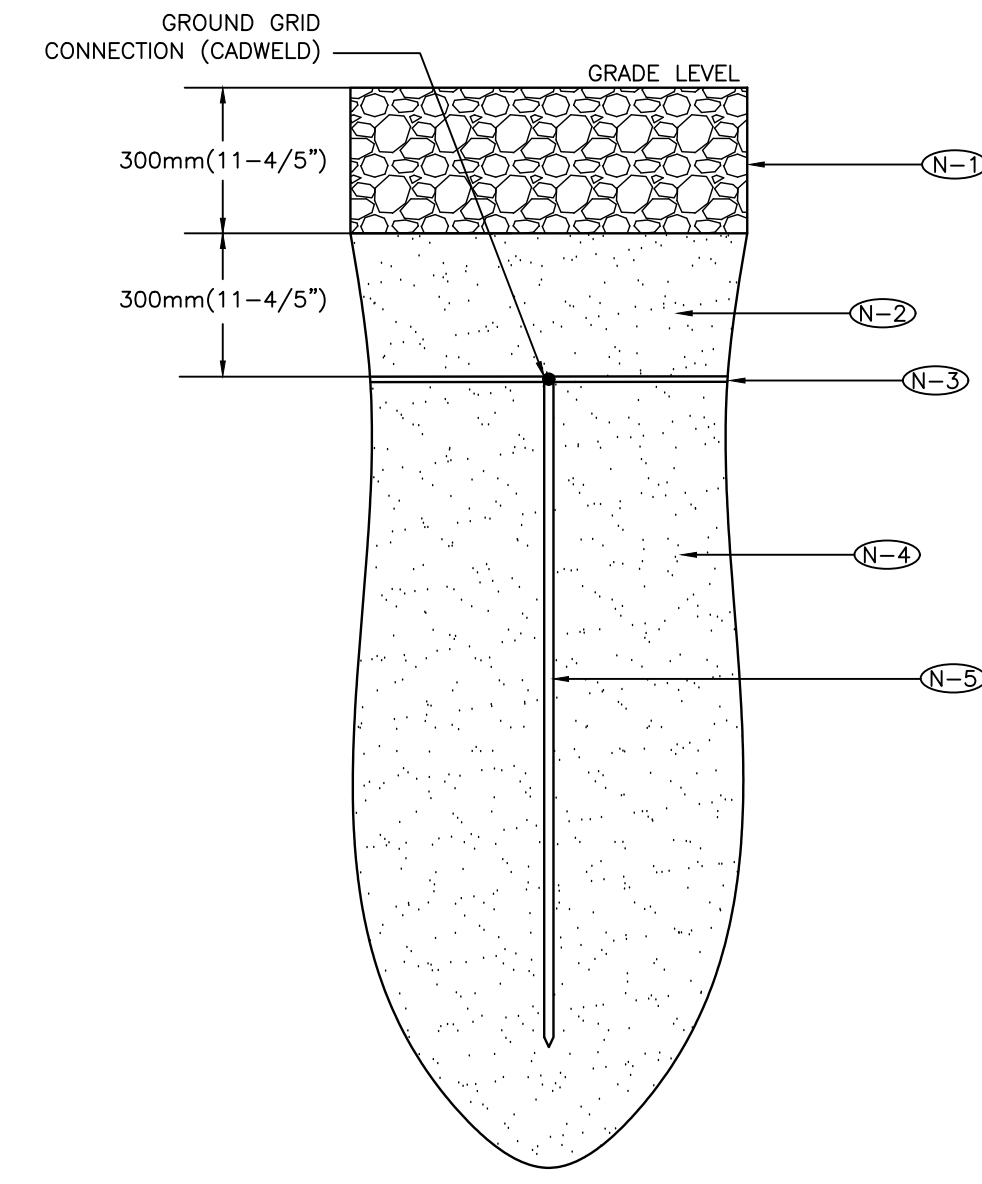
project no.: 20257.001.E.001
scale: N.T.S.
date: JULY 2020



IDENTIFIED PRICE #2

GENERAL NOTES:

1. ALL CONNECTIONS SHALL BE DOUBLE HOLE LONG BARREL COMPRESSION LUGS WITH VIEWING PORTS UNLESS OTHERWISE INDICATED.
2. BONDING CONDUCTORS AND JUMPERS ARE SIZED AS PER TABLE 16A AND 16B - OESC. GROUNDING CONDUCTORS TO BE MINIMUM #6AWG UNLESS NOTED.
3. GROUNDING CONDUCTORS TO BE COPPER.
4. RISER IS DIAGRAMMATIC. REFER TO SINGLE LINE DIAGRAM AND FLOOR PLANS FOR QUANTITY AND LOCATION OF DISTRIBUTION EQUIPMENT. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL ALL REQUIRED GROUNDING AND BONDING EQUIPMENT AND WIRING AS INDICATED ABOVE TO COMPLETE THE WORK.



IDENTIFIED PRICE #2

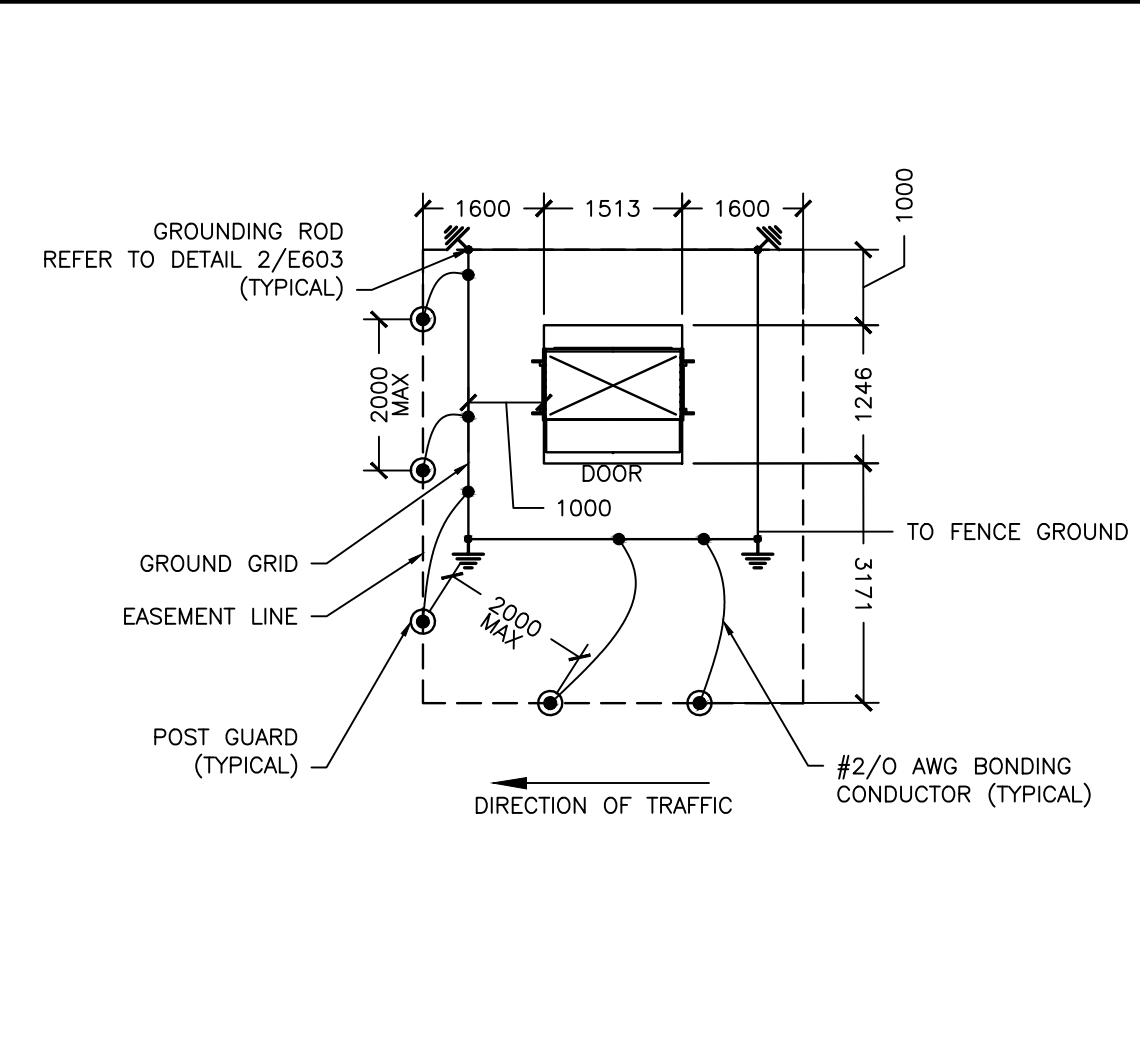
NOTES:

- (N-1) RESTORE FINISH TO MATCH ADJACENT AREAS
- (N-2) BACKFILL
- (N-3) #2/0 AWG CU BARE STRANDED GROUNDING CONDUCTOR
- (N-4) NATIVE SOIL
- (N-5) 19mm DIA. COPPER ROD - 3000mm LENGTH

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3 DETAIL - GROUNDING DIAGRAM - NEW

1 DETAIL - GROUNDING ROD

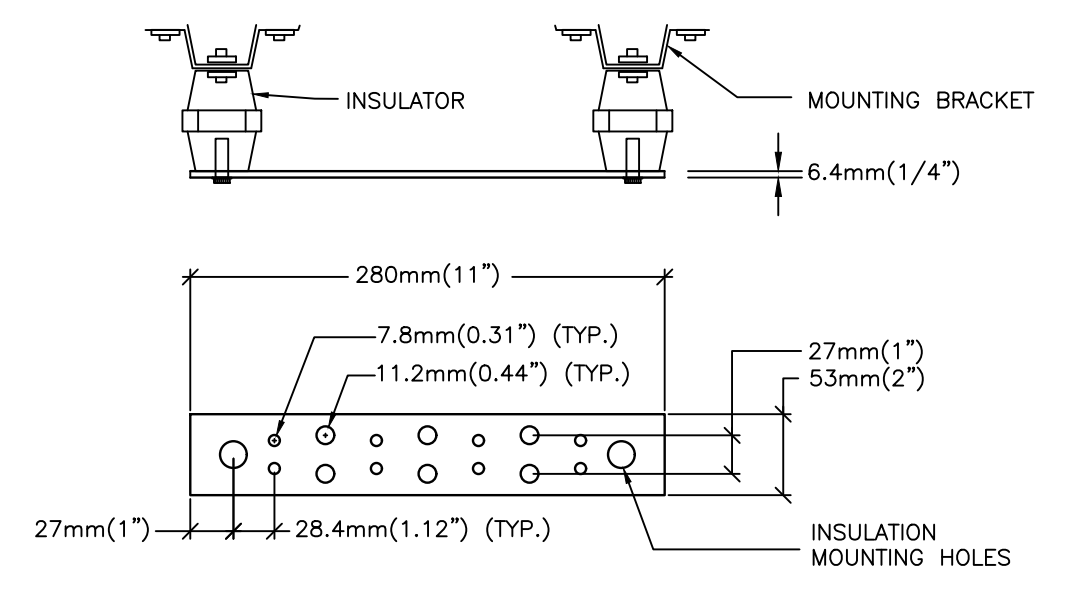


IDENTIFIED PRICE #2

NOTES:

1. NUMBER OF GUARD POSTS AND LOCATION ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS AND NUMBERS TO BE DETERMINED BY ALECTRA ON SITE. ELECTRICAL CONTRACTOR TO COORDINATE WITH ALECTRA.
2. GUARD POST SHALL BE 6" DIAMETER x 96" LONG, 1/3" THICK GALVANIZED STEEL PIPE (MINIMUM GAUGE SCHEDULE 40) COVERED WITH A 7" DIAMETER x 60" LONG, HIGH DENSITY POLYETHYLENE (HDPE) RESIN PIPE COVER.
3. DIG 14" DIAMETER x 54" DEEP HOLE IN GROUND AND POUR 42" OF 20MPa (2900 PSI) CONCRETE AROUND THE GUARD POST KEEPING 6" BELOW THE GUARD POST AS A BASE. FILL THE REMAINING 11" AROUND THE GUARD POST WITH FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY.
4. STEEL GUARD POSTS SHALL BE FILLED WITH 20MPa (2900 PSI) CONCRETE WITH THE TOP ROUNDED. TWO FOAM SPACER STRIPS ARE REQUIRED TO BE PLACED ACROSS THE TOP BETWEEN THE STEEL GUARD POST AND THE HDPE COVER.
5. CONTRACTOR TO COORDINATE WITH ALECTRA FOR INSPECTION PRIOR TO ENERGIZATION OF THE TRANSFORMER.
6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
7. ALL CLEARANCES TO BE IN ACCORDANCE WITH ALECTRA UTILITIES STANDARD DOCUMENT 37-218.
8. GROUNDING TO COMPLY WITH ALECTRA UTILITIES 3-PHASE PAD MOUNTED TRANSFORMER GROUNDING DETAIL, DOCUMENT NUMBER 41-11.

5 DETAIL - TRANSFORMER POST GUARDS AND GROUNDING

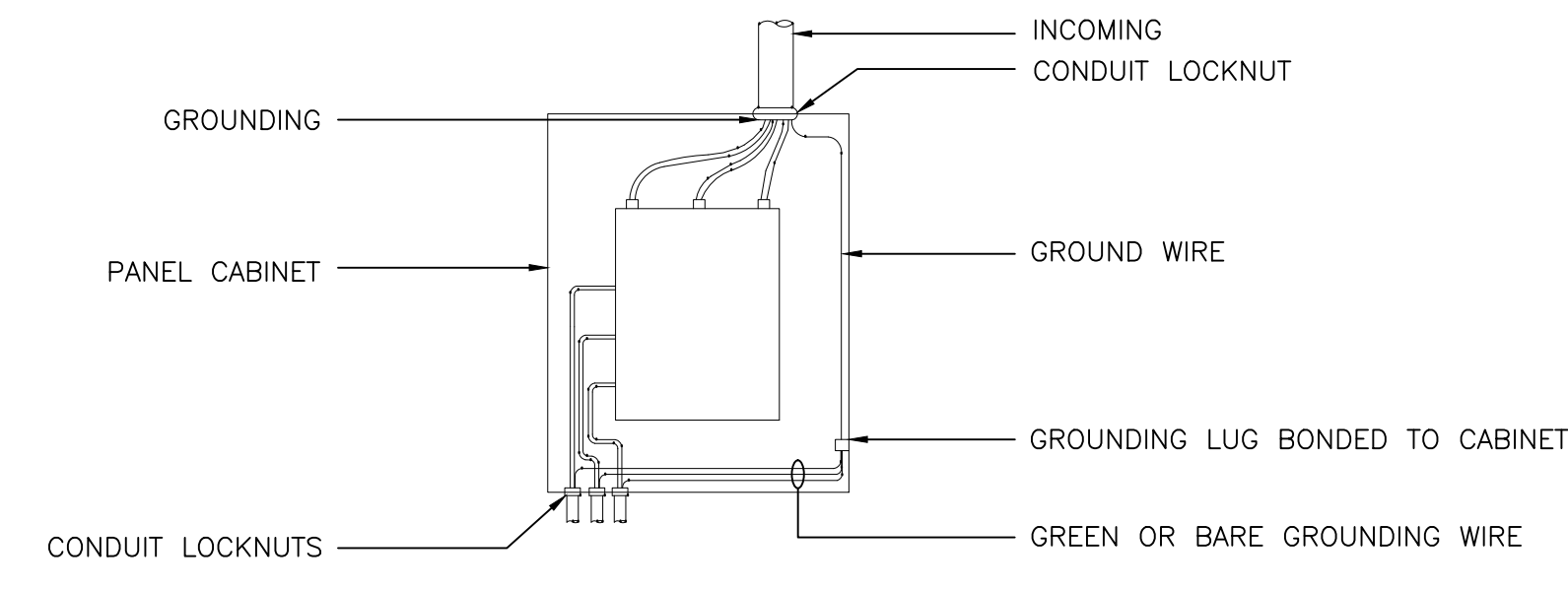


IDENTIFIED PRICE #2

NOTES:

- (N-1) GROUNDING BUS BAR SHALL BE MOUNTED ON PLYWOOD BACKBOARD OR WALL.
- (N-2) GROUNDING BUS BAR KIT SHALL BE **PANDUIT GB2 SERIES** OR APPROVED EQUIVALENT.
- (N-3) PANDUIT GROUNDING BUS BAR KIT COMES FULLY ASSEMBLED. KIT INCLUDES:
BUSBAR - QTY. 1
MOUNTING BRACKET QTY. 2
INSULATORS - QTY. 2
9.5mm(3/8") FLAT WASHERS - QTY. 4
9.5mm(3/8") LOCK WASHERS - QTY. 4
9.5mm X 15.9mm(3/8" X 5/8") CAP SCREWS - QTY. 2
9.5mm X 31mm(3/8" X 3/4") CAP SCREWS - QTY. 2
- (N-4) ALL ITEMS (GROUNDING BUS BAR KIT, BONDING BACKBONE WIRE, ETC) TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- (N-5) ELECTRICAL CONTRACTOR TO TIE-IN GROUND BUS BAR TO BASE BUILDING MAIN GROUND SYSTEM AS INDICATED.

4 ELECTRICAL GROUNDING BUS BAR



IDENTIFIED PRICE #2

NOTES:

- (N-1) ALL WIRES TO BE NEATLY LACED.
- (N-2) NEUTRAL CONDUCTOR NOT SHOWN FOR CLARITY.

2 TYPICAL PANEL GROUNDING

PROJECT CONTACT

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PROFESSOR'S LAKE RECREATION CENTRE
1660 NORTH PARK DR., BRAMPTON, ON

POWER DISTRIBUTION, ASPHALT AND LIGHT STANDARD REPLACEMENT

ELECTRICAL DETAILS PART 4

project no.: 20257.001.E.001
scale: N.T.S.
date: JULY 2020

PANEL: A			LOCATION:											
PROJECT NAME:			FED FROM:											
PROJECT #: 20257			Smith + Andersen											
TYPE/ INFO	DESCRIPTION	D.F [%]	CONN. LOAD [W]	DEMAND LOAD [W]	BKR [A]	CCT NO.	Φ	CCT NO.	BKR [A]	DEMAND LOAD [W]	CONN. LOAD [W]	D.F [%]	DESCRIPTION	TYPE/ INFO
1	LIFEGUARD RM - LTS + REC 1	50	1440	720	15	1	A	2	20	960	1920	50	NIGHT LTS	1
1	LOBBY LTS	50	1920	960	20	3	B	4	20	960	1920	50	STORAGE RM LTS	1
1	OFFICE BACK LOBBY/STAFF ROOM	50	1920	960	20	5	A	6	20	960	1920	50	CHANGE RM LTS	1
1	MENS WASHRM LTS	50	1920	960	20	7	B	8	15	720	1440	50	OUTSIDE LTS TIME	1
1	WOMENS WASHRM LTS	50	1440	720	15	9	A	10	15	720	1440	50	OUTSIDE LTS TIME	1
1	MAINT. SHOP FRIDGE	50	1440	720	15	11	B	12	15	720	1440	50	OUTSIDE LTS TIME	1
1	FOYER REC	50	1440	720	15	13	A	14	15	720	1440	50	LED WALL PACK	1
1	CIRC PUMP - PAGING SYSTEM	50	1440	720	15	15	B	16	15	720	1440	50	LED WALL PACK	1
1	CRAWL SPACE LTS	50	1440	720	15	17	A	18	15	720	1440	50	OFFICE REC	1
1	FIRST AID REC	50	1440	720	15	19	B	20	15	720	1440	50	HALL REC	1
1	LIFE GUARD REC	50	1440	720	15	21	A	22	15	720	1440	50	OUTSIDE REC	1
1	LOBBY REC	50	1440	720	15	23	B	24	20	960	1920	50	REFRIGERATOR REC	1
1	SNACK BAR REC	50	1920	960	20	25	A	26	20	1920	3840	50	SNACK BAR REC	1
1	SNACK BAR REC	50	1920	960	20	27	B	28	2P					
1	BTC REC	50	1440	720	15	29	A	30	15	720	1440	50	ELEVATOR REC	1
1	MICROWAVE PLUG	50	1440	720	15	31	B	32	15	720	1440	50	POP MACHINE	1
1	EXISTING LOAD	50	1440	720	15	33	A	34	15	720	1440	50	BOAT HOUSE LIGHTS	1
1	EX FAN EF FIVE	50	3840	1920	20	35	B	36	15	720	1440	50	EX FAN EF SEVEN	1
						37	A	38	15	720	1440	50	SNACK BAR	1
1	OUTSIDE LIGHTS (SP-A)	50	1440	720	15	39	B	40	20	1920	3840	50	COFFEE MACHINE	1
	EX FANS (SP-A)	50	1440	720	15	41	A	42	2P					
1	STORAGE GFI (SP-A)	50	1920	960	20	43	A	44	20	960	1920	50	SNACK BAR REC(SP-A)	1
1	STORAGE GFI (SP-A)	50	1920	960	20	45	B	46	2P			50		1
	STORAGE GFI (SP-A)	50	1920	960	20	47	A	48	15	720	1440	50	EXT. SLIDING DOOR(SP-A)	
	STORAGE GFI (SP-A)	50	1920	960	20	49	B	50	15	720	1440	50	EXISTING LOAD (SP-A)	
	ICE MACHINE(SP-A)	50	1920	960	20	51	A	52	20	720	1440	50	MONITORING PANEL(SP-A)	
	SPARE	100	1440	1440	15	53	B	54	15	720	1440	50	EXISTING LOAD (SP-A)	
	SPARE	100	1440	1440	15	55	A	56	20	1920	1920	100	SPARE	
	SPARE	100	1920	1920	20	57	B	58	2P			100		
	SPARE	100	1920	1920	20	59	A	60				100		

PANEL OPTIONS:		LOAD A [KW]:	26.4	PHASE VOLTAGE [V]:	120
<input checked="" type="checkbox"/>	1 - CSA ENCLOSURE RATING	LOAD B [KW]:	24	LINE VOLTAGE [V]:	240
<input type="checkbox"/>	FEED THROUGH	TOTAL [KW]:	50.4	PHASE:	1Φ
<input type="checkbox"/>	SUB-FEED	CURRENT A [A]:	220	WIRE:	3
<input type="checkbox"/>	ISOLATED GROUND BUS	CURRENT B [A]:	200	MAINS [A]:	200
<input type="checkbox"/>				MAIN BREAKER [A]:	

1 SCHEDULE: PANEL A

PANEL: SUB PANEL A			LOCATION:											
PROJECT NAME:			FED FROM:											
PROJECT #: 20257			Smith + Andersen											
TYPE/ INFO	DESCRIPTION	D.F [%]	CONN. LOAD [W]	DEMAND LOAD [W]	BKR [A]	CCT NO.	Φ	CCT NO.	BKR [A]	DEMAND LOAD [W]	CONN. LOAD [W]	D.F [%]	DESCRIPTION	TYPE/ INFO
1	EXISTING LOAD	50	1440	720	15	1	A	2	20	960	1920	50	EXISTING LOAD	1
1	EXISTING LOAD	50	1440	720	15	3	B	4	20	1920	3840	50	EXISTING LOAD	1
1	EXISTING LOAD	50	1920	960	20	5	A	6	2P					1
1	EXISTING LOAD	50	1920	960	20	7	B	8	15	720	1440	50	EXISTING LOAD	1
1	EXISTING LOAD	50	1920	960	20	9	A	10	20	960	1920	50	EXISTING LOAD	1
1	EXISTING LOAD	50	1920	960	20	11	B	12	15	720	1440	50	EXISTING LOAD	1
1	SPARE	100			15	13	A	14	15			100	SPARE	1
1	SPARE	100			15	15	B	16	15			100	SPARE	1
1		100			15	17	A	18	15			100		1

PANEL OPTIONS:		LOAD A [KW]:	4.56	PHASE VOLTAGE [V]:	120
<input checked="" type="checkbox"/>	1 - CSA ENCLOSURE RATING	LOAD B [KW]:	6	LINE VOLTAGE [V]:	240
<input type="checkbox"/>	FEED THROUGH	TOTAL [KW]:	10.6	PHASE:	1Φ
<input type="checkbox"/>	SUB-FEED	CURRENT A [A]:	38	WIRE:	3
<input type="checkbox"/>	ISOLATED GROUND BUS	CURRENT B [A]:	50	MAINS [A]:	200
<input type="checkbox"/>				MAIN BREAKER [A]:	
<input type="checkbox"/>				I.C. [KA]:	

LEGEND:			NOTES:		
BAS-Building Automation System	R.C-Relay Controlled	LTS-Lighting	1. Panel Enclosure To Be Sprinklerproof.		
GFCI-Ground Fault Circuit Interrupter	M-Motor	HID-High Intensity Discharge Lighting Breaker	2. Panels greater than 66 circuits to be double tub.		
AFCI-Arc Fault Circuit Interrupter	D.F-Demand Factor		3. Surge Protection Device (SPD) to be in a separate barriered enclosure with separate cover.		
SPD - Surge Protection Device	REC-Receptacle	D.C-Direct Connection			
BLO-Breaker Lock-On Device					

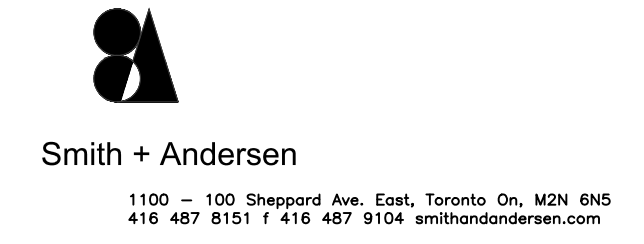
2 SCHEDULE: SUB PANEL A

NO.	DATE	DESCRIPTION
11	2024.03.14	RE-ISSUED FOR TENDER
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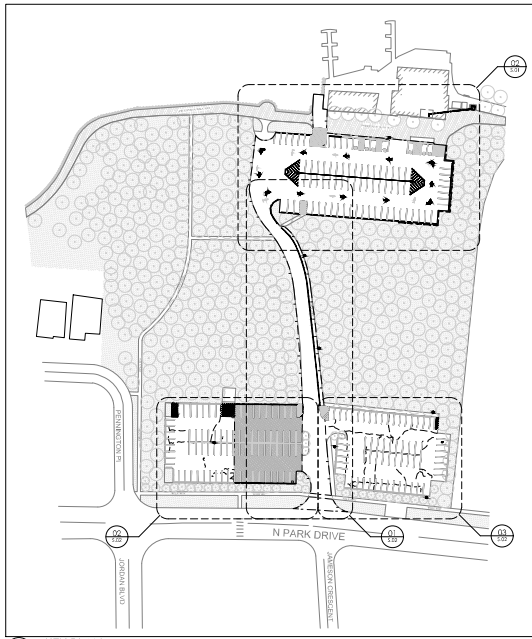


PROFESSOR'S LAKE RECREATION CENTRE
1660 NORTH PARK DR., BRAMPTON, ON

POWER DISTRIBUTION, ASPHALT AND LIGHT STANDARD REPLACEMENT

SECOND FLOOR ELECTRICAL ROOM POWER AND SYSTEMS

Project no.: 20257.001.E.001
scale: 1:50
date: JULY 2020



KEY PLAN
Scale 1:1000

LEGEND:

- REMOVE & REPLACE (RE&R) ASPHALT INCLUDING SUB-GRADE (FULL DEPTH)
- AREA TO BE RESURFACED (PARTIAL DEPTH)
- EXIST. STORM WATER CATCH-BASIN
- EXIST. LIGHT POLE
- REMOVE AND REINSTATE PRECAST CURB
- NEW PRECAST CURB
- EXIST. PRECAST CURB TO REMAIN
- PROPOSED BOUNDARY OF PHASED WORK
- EXIST. CRACK TO BE FILLED
- PROPOSED DITCH
- RE & R T&R POST

DEMOLITION NOTES:

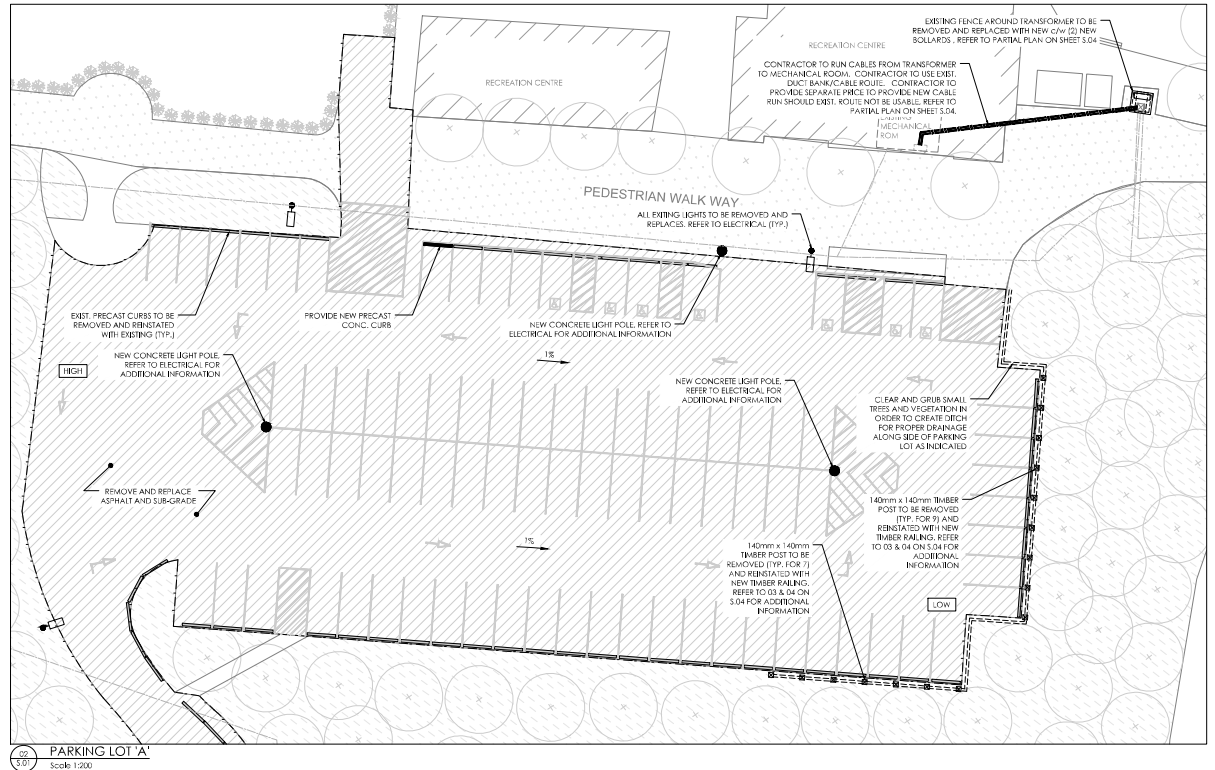
- THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD PROPER AND SAFE MEANS OF EGRESS SHALL BE PROVIDED FROM ALL ZONES OF THE BUILDING AND PARKING LOT AREAS AT ALL TIMES TO THE APPROVAL OF THE AUTHORITIES HAVING JURISDICTION.
- ALL MATERIALS AND FINISHES WHICH ARE DAMAGED OR DISTURBED DURING THE PROGRESS OF CONSTRUCTION UNDER THE CONTRACT SHALL BE REPAIRED.
- ALL MATERIALS AND PRODUCTS FROM DEMOLITION WORK SHALL AS NOTED OTHERWISE, BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE ALL MATERIAL AND DEBRIS FROM THE SITE DAILY AND DISPOSE OF LEGALLY.

SUMMARY OF QUANTITIES:

ITEM	TYPE	APPROX. QUANTITY
PRECAST CURB	RE & R PRECAST CURB	102
PRECAST CURB	NEW PRECAST CURB	2
ASPHALT	FULL DEPTH REPLACEMENT	4000 m ²
ASPHALT	PARTIAL DEPTH REPLACEMENT	1000 m ²
ASPHALT	ROUTE AND SEAL CRACKS	295 m
LINE PAINTING	REINSTATE LINE MARKINGS	1420 m

PRICING NOTE:

ALL SCOPE OF WORK IN DRAWINGS S.01 TO S.04 TO BE PRICED AS IDENTIFIED PRICE #1. EXCEPT THE ALTERNATE ROUTE SCOPE WHICH WILL BE PRICED AS SEPARATE PRICE #13.



PARKING LOT 'A'
Scale 1:200

GENERAL NOTES:

- PROPOSED ELEVATIONS MUST MATCH EXISTING ELEVATIONS AND EXIST. ASPHALT NOT IN CONFLICT. CONTRACTOR TO COMPLETE PRE-CONSTRUCTION SURVEY TO DETERMINE EXISTING GRADES AND FALL LINES FOR PROPER DRAINAGE. PROVIDE PRE-CONSTRUCTION EXISTING GRADE ELEVATIONS TO CONSULTANT FOR REVIEW.
- ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT CITY OF BRAMPTON, AND ONTARIO PROVINCIAL STANDARDS DRAWINGS AND SPECIFICATIONS.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONTRACTOR AS DEFINED IN THAT ACT.
- BUILDING LOCATION AND BOUNDARY INFORMATION ARE TAKEN FROM DRAWINGS OBTAINED FROM THE CITY OF BRAMPTON AND SITE MEASUREMENTS. DIMENSIONS ARE NOT TO BE SET BY THESE DRAWINGS.
- EXACT LOCATION AND ELEVATION OF EXISTING SERVICES AND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY EXCAVATION. THE LOCATION OF ALL UNDERGROUND SERVICES, UTILITIES AND STRUCTURES IS APPROXIMATE ONLY, AND WHERE SHOWN ON THE DRAWINGS, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES BY CONSULTING THE APPROPRIATE AUTHORITIES OR UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVIDE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE OR RESTRICTION TO SAME.
- CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE CITY OF BRAMPTON FOR WORK WITHIN PUBLIC RIGHTS-OF-WAY.
- ALL SUBGRADE TO BE INSPECTED BY A QUALIFIED SOILS ENGINEER. RETAINED BY CONTRACTOR PRIOR TO PLACEMENT OF GRANULAR MATERIALS. THE SUBGRADE AND ALL GRANULAR MATERIALS SHALL BE COMPACTED TO A MINIMUM 100% S.M.C.D. ALL ASPHALT TO BE COMPACTED TO A MINIMUM OF 97% MARSHALL DENSITY. ALL MATERIALS SHALL BE COMPACTED IN LIFE APPROVED BY THE SOILS ENGINEER BEFORE THE CONTRACTOR PROVIDE TESTING REPORTS TO ENGINEER FOR REVIEW.
- ALL WORK TO BE COORDINATED WITH THE CITY OF BRAMPTON, PARK AND TELSTORM CORP.
- CONTRACTOR TO PROVIDE FENCING AROUND PROPOSED PARKING LOT AREAS. TREES AND SHRUBS ARE TO BE COVERED AND PROTECTED THROUGHOUT DURATION OF REPAIR WORK.
- SCOPE OF WORK FOR THIS CONTRACT COMPRES OF: REMOVAL OF EXISTING ASPHALT AT SPECIFIED LOCATIONS, RESURFACING AND RECONSTRUCTION OF GRANULAR BASE, PLACEMENT OF BASE COURSE H&B AND TOP COURSE H&B ASPHALT AT SPECIFIED LOCATIONS, ADJUSTMENT OF CATCHBASIN GRATE AND MANNHOLE COVER TO MATCH EXIST. SLOPE AND PROMOTE WATER DRAINAGE, PAINT PAVEMENT MARKINGS ACROSS SITE AS INDICATED, REMOVE AND REPLACE PRECAST CONCRETE CURBS, AND REMOVE AND REINSTATE HANDRAIL.
- ALL ASPHALT TO MATCH SPECIFIED GRADES AND TO BE SLOPED TOWARDS CATCH BASINS. NEW ROADWAY TO BE SLOPED AT A MINIMUM OF 2% AWAY FROM CROWN.
- ALL CONCRETE CURBS, SIDEWALKS, CATCH-BASINS AND MANNHOLES NOT MARKED WITH A NOTE ARE TO REMAIN AS IS.

PAVEMENT DESIGN NOTES:

- PAVEMENT STRUCTURE DESIGN AS NOTED IN GEOTECHNICAL REPORT PREPARED BY SOILS ENGINEERS LTD., DATED NOVEMBER 11, 2020. REFERENCE NO. 2008-5004.
- FULL DEPTH REPAIRS:

PARKING AREA

COURSE	THICKNESS	OPS SPECIFICATIONS
ASPHALT SURFACE	40 mm	H-3
ASPHALT BINDER	50 mm	H-3
GRANULAR BASE	150 mm	19 mm CRUSHER RUN LIMESTONE
GRANULAR SUB-BASE	250 mm	50 mm CRUSHER RUN LIMESTONE

DRIVEWAY AND DRIVE-ABLE

COURSE	THICKNESS	OPS SPECIFICATIONS
ASPHALT SURFACE	40 mm	H-3
ASPHALT BINDER	50 mm	H-3
GRANULAR BASE	150 mm	19 mm CRUSHER RUN LIMESTONE
GRANULAR SUB-BASE	300 mm	50 mm CRUSHER RUN LIMESTONE

BOAT RAMP

COURSE	THICKNESS	OPS SPECIFICATIONS
ASPHALT SURFACE	75 mm	H-3
GRANULAR BASE	250 mm	19 mm CRUSHER RUN LIMESTONE

PARTIAL DEPTH REPAIRS (RESURFACING):

- REMOVE ASPHALT AND TOP 150mm OF GRANULAR FILL. REPLACE WITH 150mm OF 19mm CRUSHER RUN LIMESTONE COMPACTED TO 97% S.M.C.D. AS WELL AS 50mm H&B ASPHALT BINDER AND 100mm H-3 ASPHALT SURFACE.
- F&B ASPHALT IS TO REMAIN EXPOSED OVER WINTER. SUBSTITUTE H&B WITH H&A.

STRUCTURAL STEEL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL CURRENT CODES, REGULATIONS, AND STANDARDS SPECIFIED ON THIS SHEET (LATEST EDITIONS).
- ALL STRUCTURAL STEEL FABRICATION AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-S16.1 AND CAN/CSA-C403.00(C41.2) FOR 300W AND 300W STEEL.
- ALL WELDS SHALL CONFORM TO THE REQUIREMENTS OF C3-A-W89M (METAL ARC WELDING) AND BE PERFORMED BY ORGANIZATIONS APPROVED BY THE CANADIAN BUREAU CERTIFIED TO THE REQUIREMENTS OF CAN/CSA-W47.1. ELECTRODES TO BE USED ARE E49XX UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL BOLTS TO BE 3/4" DIA. HIGH STRENGTH STEEL CONFORMING TO ASTM A325 UNLESS NOTED OTHERWISE.
- ALL ANCHOR BOLTS, LUGS, THREADED RODS SHALL MEET THE SPECIFICATIONS OF ASTM A307, GRADE C.
- ALL EXPOSED EXTERIOR STRUCTURAL STEEL IS TO BE HD-ZIP GALVANIZED IN ACCORDANCE WITH CSA STANDARD G164 UNO.
- ALL DAMAGED OR FIELD CUT AREAS OF GALVANIZED STEEL MUST BE REPAIRED USING TWO COATS OF ZINC-RICH PAINT (i.e. GALVALUME).
- ALL BEARING PLATES FOR STRUCTURAL STEEL MUST BE CENTERED UNDER SUPPORTING ELEMENTS.

TIMBER NOTES:

- NEW WOOD JOIST MEMBERS TO BE PRESSURE TREATED NO.1/NO.2 SPT.
- USE MIN. 5" SQUARES FOR CONNECTIONS AND EITHER CLINCH ON FACE OR DRIVE ALTERNATIVELY FROM BOTH SIDES FOR ANY REINFORCING.

CONCRETE NOTES:

- ALL CONCRETE PLACING, REINFORCEMENT, FORMWORK, SHORING AND RESHORING SHALL CONFORM TO CAN/CSA-A23.1
- ALL PRECAST CONCRETE MATERIAL PLACEMENT AND CONSTRUCTION SHALL CONFORM TO CAN/CSA-A23.4
- ALL CONCRETE WORK CONFORMS TO CAN/CSA-A23.1
- USE TYPE GU PORTLAND CEMENT UNLESS NOTED OTHERWISE.
- ALL REINFORCING STEEL SHALL BE DELIVERED TO JOB, BENT AND SUPPORTED TO CONFORM TO RCBC MANUAL OF STANDARD PRACTICE AND CAN/CSA-A23.3. LAY ALL CONTIGUOUS BARS 36 TIMES BAR DIAMETER, OR 12" (300mm), WHICHEVER IS LARGER, U.N.O.
- ALL CODES REFERENCED IN THESE NOTES TO BE LATEST ISSUE.
- NOBODY STRUCTURAL ENGINEER 48 HOURS BEFORE CONCRETE POUR FOR REINFORCING INSPECTION.
- ALL CONCRETE TO BE PLACED WITHIN 2 HOURS OF MIXING.
- CONTRACTOR TO PROVIDE ADEQUATE PROTECTION AFTER CONCRETE POUR TO LIMIT FAST CURING, FREEZING OR OTHER HAZARDS TO CONCRETE (I.N.C.)
- REFER TO TABLE THIS SHEET FOR INFORMATION ON CONCRETE COMPRESSIVE STRENGTH, SLUMP AND AIR ENTRAINMENT FOR STANDARD CONCRETE ELEMENTS. REFER TO NOTES ON STRUCTURAL DRAWINGS FOR MORE SPECIFIC VALUES IF REQUIRED.
- REFER TO TABLE THIS SHEET FOR INFORMATION ON CONCRETE COVER. REFER TO NOTES ON STRUCTURAL DRAWINGS FOR MORE SPECIFIC VALUES IF REQUIRED.
- ALL CONCRETE TESTING SHALL CONFORM TO CAN/CSA-A23.1 AND A23.2 S2.
- A CONCRETE STRENGTH TEST SHALL BE MADE ON EVERY 10th OF CONCRETE Poured.
- PERFORM AT LEAST ONE STRENGTH TEST FOR EACH CLASS OF CONCRETE Poured AND FOR EACH MAJOR COMPONENT OF THE STRUCTURE.
- ALL CONCRETE TEST RESULTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER.

CONCRETE STRENGTH (UNO):

LOCATION AND/OR MEMBER TYPE	STRENGTH (MPa)	SLUMP (mm)	COMMENTS
FOOTING/CAPS	30	75-120	



NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION
19	24 NOV 2023	TENDER
18	16 NOV 2023	TRUCK
17	08 NOV 2023	PERIOD
16	15 MAR 2022	PLAN REVIEW
15	10 MAR 2022	VALUE ESTIMATE
14	08 FEB 2022	PERIOD
13	24 DEC 2021	PERIOD
12	23 NOV 2021	PERIOD
11	18 SEP 2021	PERIOD

PROJECT CONTACT:

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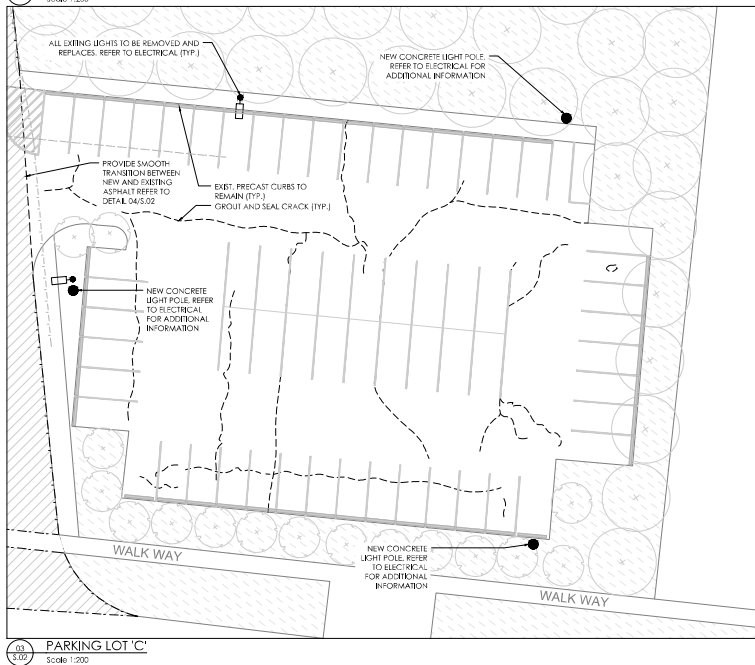
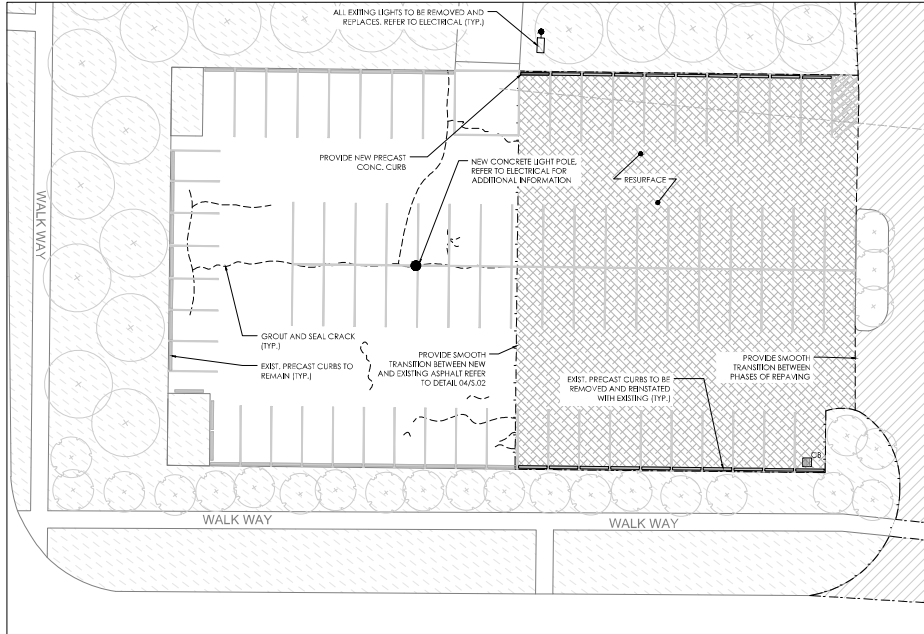
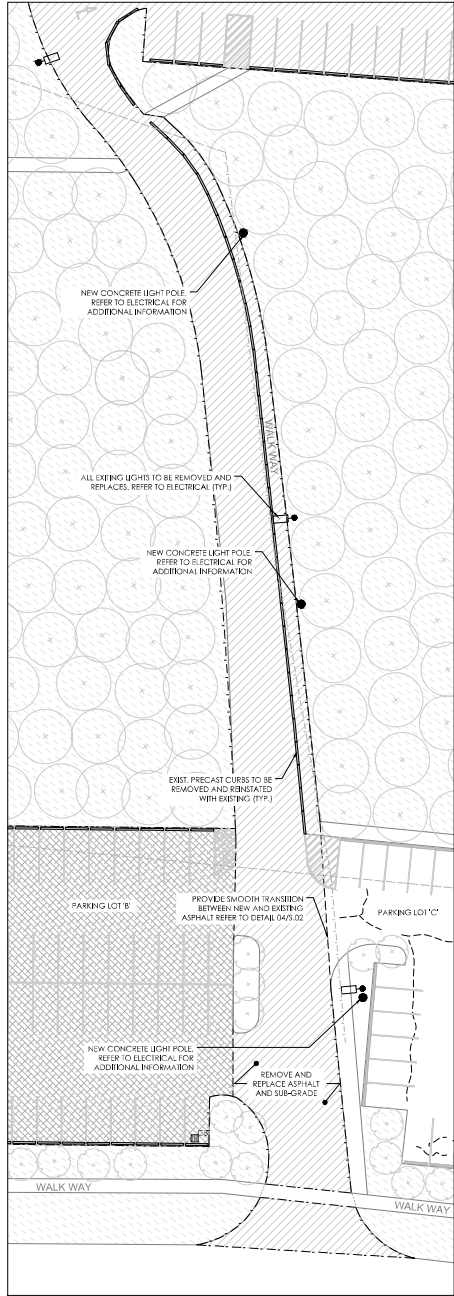
THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



PROFESSOR'S LAKE RECREATION CENTRE
1650 NORTH PARK DR., BRAMPTON, ON

POWER DISTRIBUTION,
ASPHALT AND LIGHT
STANDARD REPLACEMENT

**NOTES, KEY PLAN AND
PARKING LOT 'A' LAYOUT**



PRICING NOTE:
ALL SCOPE OF WORK IN DRAWINGS S.01 TO S.04 TO BE PRICED AS IDENTIFIED PRICE #1. (EXCEPT THE ALTERNATE ROUTE SCOPE WHICH WILL BE PRICED AS SEPARATE PRICE #11.)

LEGEND:

- REMOVE & REPLACE (REAR) ASPHALT INCLUDING SUB-GRADE
- AREA TO BE RESURFACED
- EXIST. STORM WATER CATCHBASIN
- EXIST. LIGHT POLE
- REMOVE AND REINSTATE PRECAST CURB
- NEW PRECAST CURB
- EXIST. PRECAST CURB TO REMAIN
- PROPOSED BOUNDARY OF PHASED WORK
- EXIST. CRACK TO BE FILLED
- PROPOSED DETCH
- RE & RE TIMBER POST



NO.	DATE	DESCRIPTION
REVISIONS AND ISSUES		
19	24 NOV 2022	TENDER
18	16 NOV 2022	REVISION
17	03 NOV 2022	ISSUE
16	15 MAR 2022	PLAN REVIEW
15	04 FEB 2022	ISSUE FOR PERMITS
14	04 FEB 2022	ISSUE FOR PERMITS
13	21 DEC 2021	ISSUE FOR PERMITS
12	23 NOV 2021	ISSUE FOR PERMITS
11	18 SEP 2021	ISSUE FOR PERMITS

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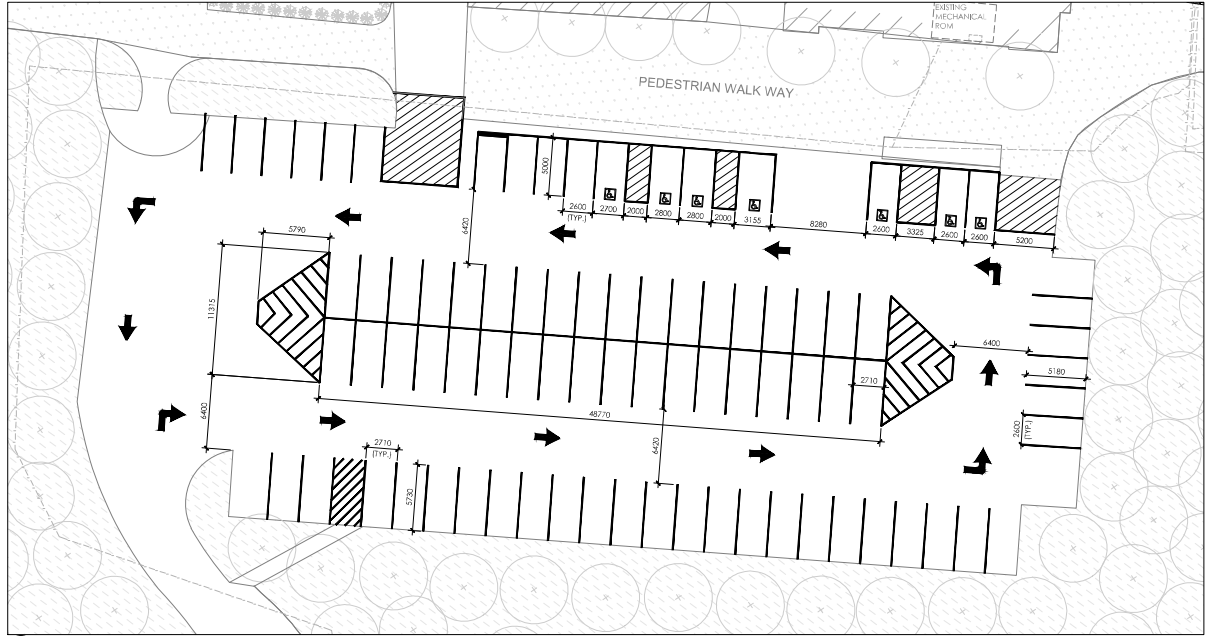
Smith + Andersen
1100 W. Beaver Creek Blvd., Toronto, ON M2H 6K6
416-467-8811 | 416-467-8812 | www.smithandandersen.com

PROFESSOR'S LAKE RECREATION CENTRE
1691 NORTH PARK DR., BRAMPTON, ON

POWER DISTRIBUTION, ASPHALT AND LIGHT STANDARD REPLACEMENT

DRIVEWAY, PARKING LOT 'B' AND PARKING LOT 'C' LAYOUTS

project no.: 2021/001_S.011 (1/2022)P01
scale: AS SHOWN
date: SEPTEMBER 2020
drawn by: NCF
approved by: ALF



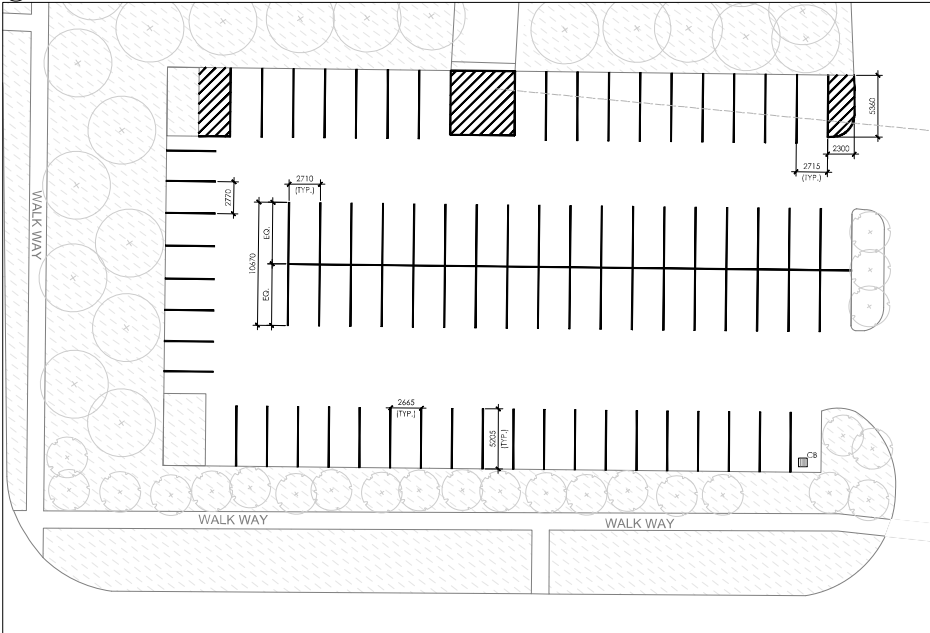
LINE PAINTING NOTES:

1. PARKING STALL QUANTITY AND CONFIGURATION TO REMAIN AS PER EXISTING.

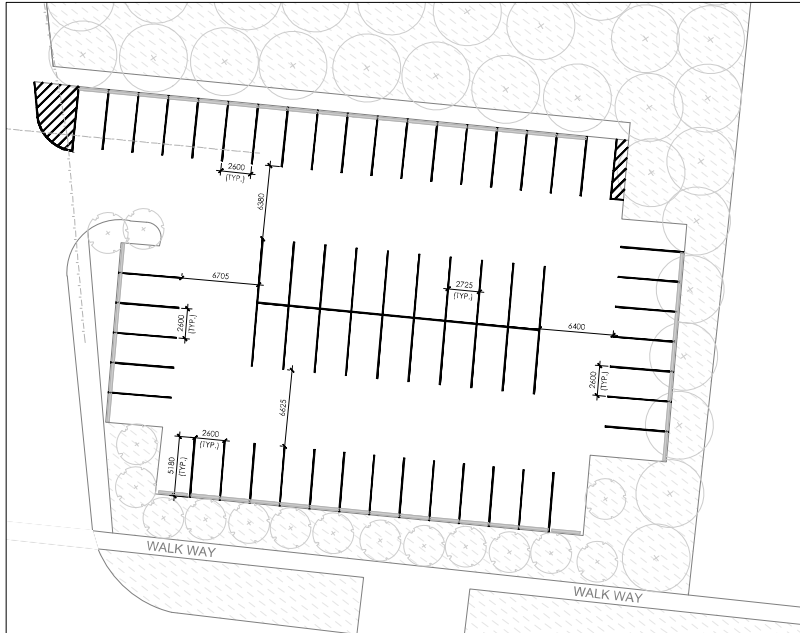
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81/ S.05 PARKING LOT 'A'
Scale: 1:200



81/ S.05 PARKING LOT 'B' - LINE MARKINGS
Scale: 1:200



81/ S.05 PARKING LOT 'C' - LINE MARKINGS
Scale: 1:200



NO.	DATE	DESCRIPTION	REVISIONS AND ISSUES
01	24 NOV 2023	TENDER	
02	24 NOV 2023	TENDER	
03	03 NOV 2023	PERIOD	
04	15 MAR 2022	3RD PLAN REVIEW	
05	04 MAR 2024	110% PERIOD	
06	04 FEB 2022	10% PERIOD	
07	21 DEC 2021	50% PERIOD	
08	23 NOV 2020	30% PERIOD	
09	11 SEP 2020	10% PERIOD	

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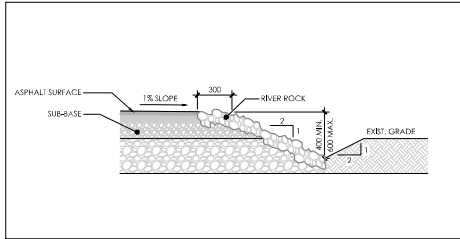
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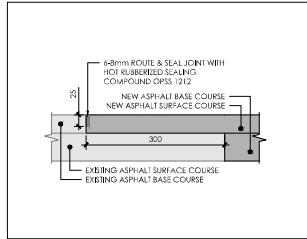
POWER DISTRIBUTION,
ASPHALT AND LIGHT
STANDARD REPLACEMENT

PAVEMENT MARKINGS

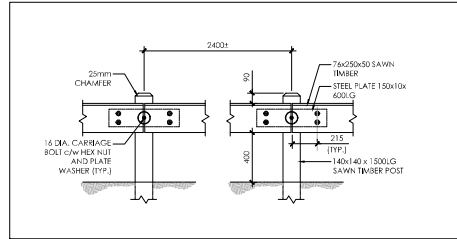
project no.: 2023/001_S.011 (12032019)
scale: AS SHOWN
date: SEPTEMBER 2020
drawn by: N/A
approved by: ALF



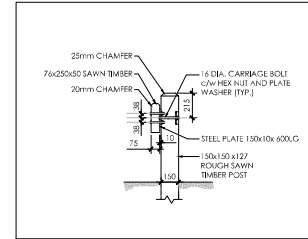
01/3.04 DRAINAGE DITCH SECTION
Scale: 1:20



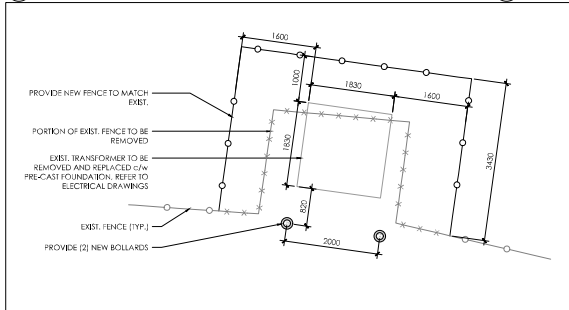
02/3.04 ASPHALT STEP JOINT DETAIL
Scale: 1:5



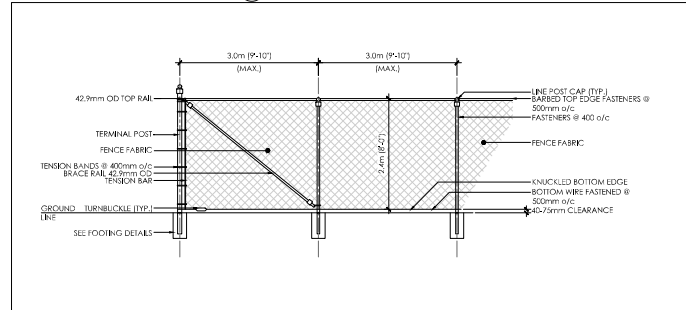
03/3.04 TIMBER RAILING ELEVATION
Scale: 1:20



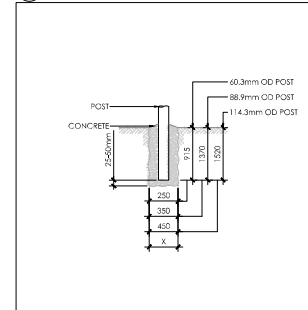
04/3.04 TIMBER RAILING SECTION
Scale: 1:20



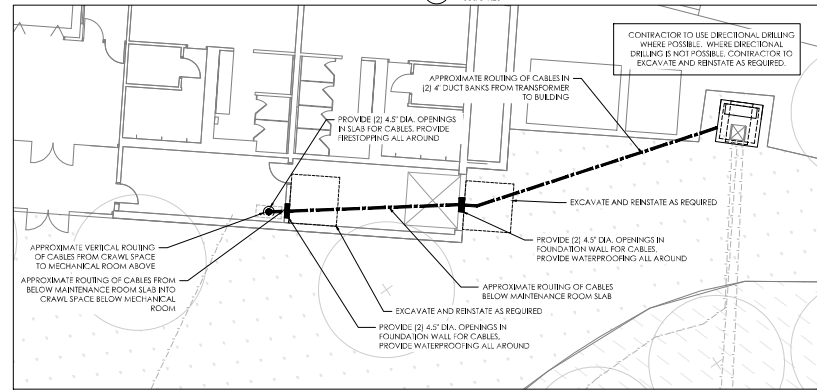
05/3.04 PARTIAL PLAN - TRANSFORMER
Scale: 1:50



06/3.04 CHAIN LINK FENCE DETAIL
Scale: 1:50



07/3.04 FENCE FOOTING DETAIL
Scale: 1:50



08/3.04 PARTIAL PLAN - ALTERNATE CABLE ROUTING (SEPARATE PRICE #1)
Scale: 1:50

ALTERNATE CABLE ROUTING (SEPARATE PRICE #1) NOTES

- COORDINATE ALL WORK WITH ELECTRICAL DRAWINGS.
- CONTRACTOR TO VERIFY EXACT PATH ON SITE AND NOTIFY ENGINEER OF DISCREPANCIES.
- CORES OR OPENINGS ARE NOT TO EXCEED 75mm DIA. UNLESS NOTED ON DRAWINGS OR APPROVED BY CONSULTANT IN WRITING.
- DO NOT CUT OR CORE IN ANY NEW OR EXISTING STRUCTURAL MEMBERS OTHER THAN WHERE SHOWN ON STRUCTURAL DRAWINGS.
- DO NOT CUT ANY REIN. STEEL OR EMBEDDED SERVICES IN CONCRETE. DO NOT CORE THROUGH CONCRETE COLUMNS, BEAMS, CEILING DROP PANELS. UNLESS NOTED, PROVIDE AT LEAST 75mm CLEAR SPACE BETWEEN NEW CORES, 400mm BETWEEN NEW CORE AND EXIST. OPENINGS, SLEEVES OR CORES.
- DO NOT CUT OR DAMAGE REINFORCING STEEL OR EMBEDDED SERVICES IN EXISTING CONCRETE OR MASONRY STRUCTURE. LOCATE ALL REINFORCING STEEL AND SERVICES PRIOR TO DRILLING, CORING OR CUTTING.
- MAINTAIN FIRE RATINGS WHEN PENETRATING FLOORS, CEILINGS, WALLS AND PARTITIONS. FIRESTOP AND SEAL ALL NEW OPENINGS USING IBC APPROVED SEALANT SYSTEM IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
- FOR NEW RECTANGULAR OPENINGS IN CONCR. OR MASONRY PROVIDE ROUNDED CORNERS.

PRICING NOTE:

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NO.	DATE	DESCRIPTION
01		
02		
03		
04		
05		
06		
07	24 NOV 2023	TENDER
08	24 NOV 2023	TENDER
09	23 NOV 2023	PERIOD
10	15 MAR 2022	SEE PLAN REVIEW
11	16 FEB 2024	110% REVIEW
12	04 FEB 2022	SLURRY
13	21 OCT 2021	ISSUE S.01 TO S.04

PROJECT CONTACT

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1661 NORTH PARK DR., BRAMPTON, ON

POWER DISTRIBUTION,
ASPHALT AND LIGHT
STANDARD REPLACEMENT

DETAILS

project no.	2023/001_0101 (11/2023)01
scale:	AS SHOWN
date:	SEPTEMBER 2023
drawn by:	MD
approved by:	ALF