

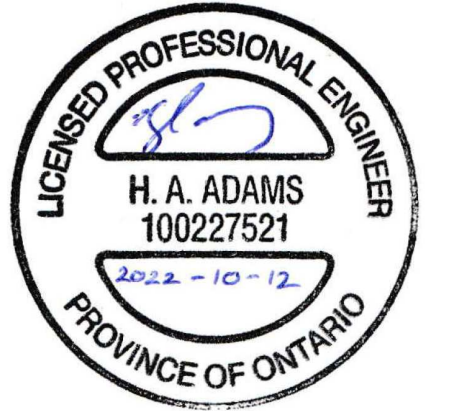
ELECTRICAL ABBREVIATIONS	
1PH 1P 2C 2W 3PH	SINGLE-PHASE 1 POLE (2P 3P 4P, ETC.) 2 CONDUCTOR (3C, 4C, ETC.) THREE-PHASE
A AC AC ACT AFF AFG A AMP AODA ASM AUTO AUX AWG	ALTERNATING CURRENT AIR CONDITIONING ACTUATOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT AMBIENT SENSING MICROPHONE AUTOMATIC AUXILIARY AMERICAN WIRE GAUGE
B BAC BAT BKR	BUILDING AUTOMATION CONTROL BATTERY BREAKER
C C CB cd CL CU COMM.	CONDUIT CIRCUIT BREAKER CANDELA CEILING COPPER COMMUNICATION
D DC DG DM DN DO DS	DIRECT CURRENT DIESEL GENERATOR DIGITAL METERING DOWN DOOR OPENERS DOOR SWITCH
E E E/R EC EF ELEC ELEV EXP	EXISTING DEVICE/EQUIPMENT TO REMAIN EXISTING DEVICE/EQUIPMENT TO BE RELOCATED OR REPLACED (AS NOTED) EMPTY CONDUIT EXHAUST FAN ELECTRICAL ELEVATION EXPLOSION PROOF
F FA FACP FC FCP FU	FIRE ALARM FIRE ALARM CONTROL PANEL FAN CONTROL FAN CONTROL PANEL FUSE
G GEN GFI GFCI GND GRS	GENERATOR GROUND FAULT INTERRUPTING GROUND FAULT CIRCUIT INTERRUPTER GROUND GALVANIZED RIGID STEEL
H HH HT HTR HVAC HZ	HAND HOLE HEIGHT HEATER HEATING, VENTILATION, AIR CONDITIONING HERTZ
I INST	INSTANTANEOUS
K kA kAIC kcmil KV kVA kVAR	KILO AMPERE KILO AMPERE INTERRUPTING CAPACITY THOUSAND CIRCULAR MILS KILO VOLTS KILOVOLT-AMPERES KILOVOLT-AMPERES REACTIVE
L LP LZ	LIGHTING PANEL LIGHTING ZONE
M MH	MOUNTING HEIGHT
N NC NIC NO NTS	NORMALLY CLOSED NOT IN CONTRACT NORMALLY OPEN OR NUMBER NOT TO SCALE
O OBC OESC OL	ONTARIO BUILDING CODE ONTARIO ELECTRICAL SAFETY CODE OVERLOAD
P P PX PH PVC	POLE EXTERIOR POLE MOUNTED LIGHT TYPE LABEL, 'X' DENOTES TYPE OF LIGHT, REFER TO LIGHTING SCHEDULE PHASE POLYVINYL CHLORIDE
Q QTY	QUANTITY
R R REC	EXISTING DEVICES/EQUIPMENT TO BE REMOVED RECEPTACLE
S SB SN SW	SOLAR LIGHT BOLLARD SOLID NEUTRAL SWITCH
T TL TVSS TW TYP	TWIST LOCK TRANSIENT VOLTAGE SURGE SUPPRESSOR TWISTED TYPICAL
U UG ULC	UNDERGROUND UNDERWRITERS LABORATORIES OF CANADA
V V	VOLTS
W W WG WP WX	WIRE WIRE GUARD WEATHER PROOF EXTERIOR WALL MOUNTED LIGHT TYPE LABEL, 'X' DENOTES TYPE OF LIGHT, REFER TO LIGHTING SCHEDULE
X XFMR	TRANSFORMER

LIGHTING	
	CEILING MOUNTED LED FIXTURE. 'A' DENOTES TYPE, REFER TO SCHEDULE. '#' INDICATES CIRCUIT NUMBER
	WALL MOUNTED LIGHT FIXTURE. 'A' DENOTES TYPE, REFER TO SCHEDULE. '#' INDICATES CIRCUIT NUMBER
	CEILING/SUSPENDED MOUNTED LIGHT FIXTURE. 'A' DENOTES TYPE, REFER TO SCHEDULE. '#' INDICATES CIRCUIT NUMBER
	FIXTURE CONNECTED TO EMERGENCY LIGHTING CIRCUIT
	POLE MOUNTED LIGHT FIXTURE STANDARD TYPE. SINGLE OR DOUBLE HEADS. 'PX' DENOTES TYPE, 'LPX' DENOTES POLE NUMBERING. REFER TO SCHEDULE. '#' INDICATES CIRCUIT NUMBER
	LIGHTING CONTACTOR
	EXIT SIGN, SINGLE FACE, WALL MOUNTED
	EXIT SIGN, SINGLE FACE, CEILING MOUNTED, C/W DIRECTIONAL ARROWS
	EXIT SIGN, DUAL FACE, WALL MOUNTED, C/W DIRECTIONAL ARROWS
	EXIT SIGN, DUAL FACE, CEILING MOUNTED, C/W DIRECTIONAL ARROWS
LIGHTING CONTROL	
	120V, 20AMP SINGLE POLE TOGGLE SWITCH. XX INDICATES THE FOLLOWING: 3 = 3 WAY SWITCH K = KEY OPERATED SWITCH D = DIMMER V = LOW VOLTAGE SWITCH P = PROJECTION SCREEN SWITCH
	WALL MOUNTED SENSOR/SWITCH. S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES D = PASSIVE INFRARED WITH INTEGRAL DIMMER "OFF" V = VACANCY CONTROL DESIGNATION DU = DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
	WALL MOUNTED DIGITAL DIMMING SWITCH AND OCCUPANCY SENSOR
	C INDICATES - CLOSED LOOP SINGLE ZONE DIGITAL PHOTOSENSOR O INDICATES - OPEN LOOP SINGLE ZONE DIGITAL PHOTOSENSOR
	DIGITAL LIGHTING ROOM CONTROLLER RC1 = 3 RELAY CIRCUITS RC2 = 2 RELAY CIRCUITS RC1 = 1 RELAY CIRCUITS D = DIMMING CAPABILITY
	CEILING MOUNTED OCCUPANCY SENSOR, X INDICATES: D = DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR IR = INFRARED SENSOR US = ULTRASONIC
	DIGITAL LIGHT MANAGEMENT ZONE CONTROLLER PANEL
LIGHTING PROTECTION & GROUNDING	
	19mm X 3000mm GROUND ELECTRODE
	GROUND ROD IN TEST WELL
	GROUND ROD W/C INSPECTION WELL
	GROUNDING CONDUCTOR, SIZE AS INDICATED
	GROUNDING CONNECTION (TYPE AS SHOWN OR NOTED)
	GROUND BONDING POINT TO STEEL STRUCTURE, REBAR, PIPE, ETC.
	GROUND BAR
	NEUTRAL GROUNDING RESISTOR
	DOWNLEAD CONDUCTOR
	LIGHTNING TERMINAL

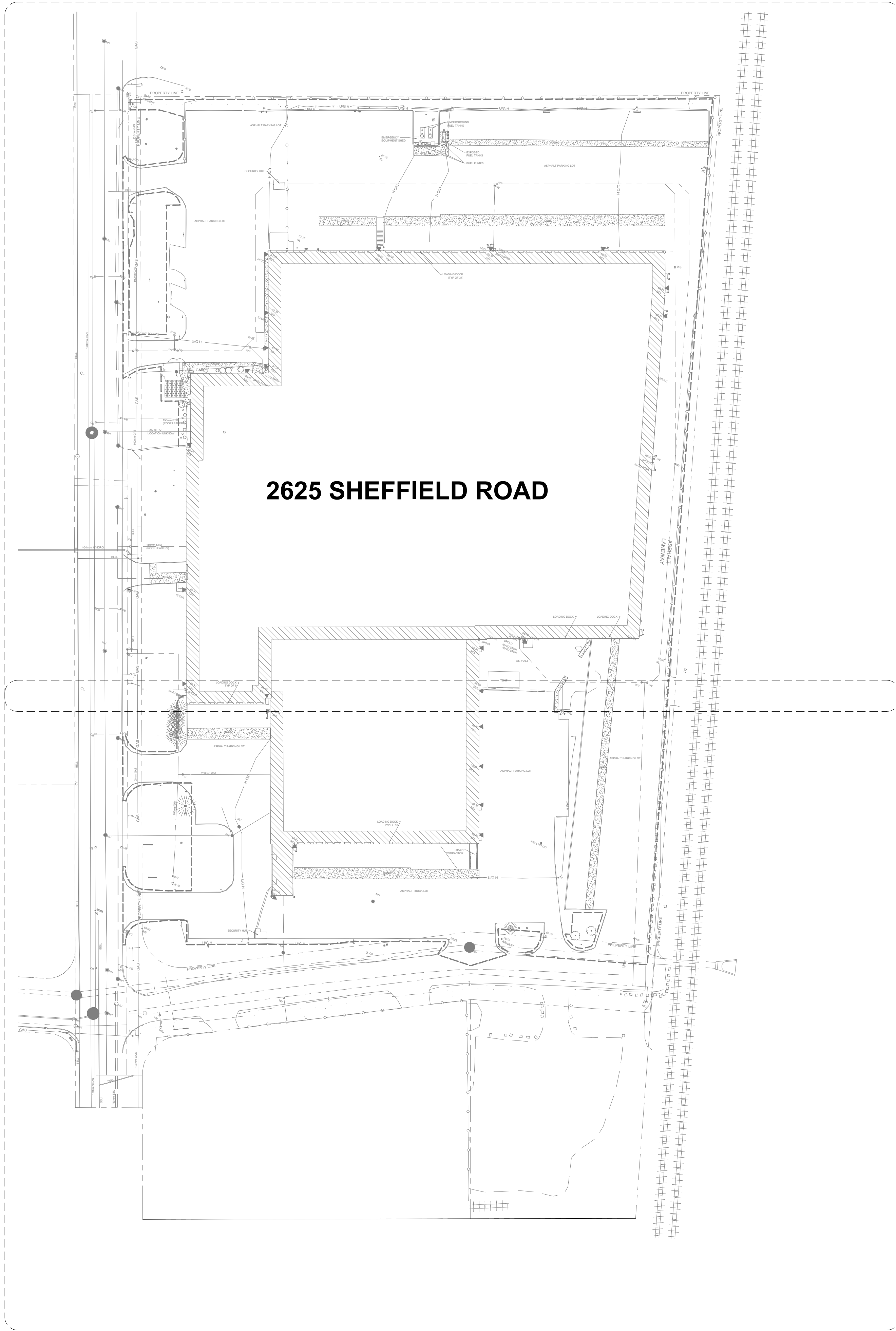
POWER	
	PANELS, RECESSED OR SURFACE MOUNTED. 'A' DENOTES PANEL NAME.
	DIRECT CONNECTION TO EQUIPMENT 120V/208V DIRECT CONNECTION TO EQUIPMENT
	THREE PHASE DIRECT CONNECTION TO EQUIPMENT 600V DIRECT CONNECTION TO EQUIPMENT
	DISCONNECT SWITCH
	STARTER
	FUSED DISCONNECT
	1-PHASE MOTOR CONNECTION
	3-PHASE MOTOR CONNECTION
	ELECTRIC DOOR OPERATOR PUSHBUTTON
	EMERGENCY BUTTON ROUGH-IN
	DOOR LOCK BUTTON ROUGH-IN
	VISUAL AND AUDIBLE ALARM SIGNAL ROUGH-IN
	JUNCTION BOX
	ARROW INDICATES CONDUIT & WIRING "HOME RUN". REFER TO SINGLE LINE OR SCHEMATIC
	PULL BOX
	20A, 120V, DUPLEX RECEPTACLE (CSA 5-20R) OR AS NOTED. XX INDICATES THE FOLLOWING: A = ABOVE COUNTER TOP / HIGH MOUNTED AC = HVAC CONTROL CONNECTION ABOVE CEILING CM = COFFEE MACHINES DW = DISHWASHER M = MICROWAVE MB = MOTORIZED BLIND (HEIGHT TO BE CONFIRMED WITH THE CONTRACTOR) P = PRINTER REF = REFRIGERATOR TV = TELEVISION V = VENDING XP = EXPLOSION PROOF
	20A, 120V, QUAD RECEPTACLE (2X CSA 5-20R) OR AS NOTED
	20A, 120V, SINGLE RECEPTACLE (2X CSA 5-20R) OR AS NOTED
	CEILING MOUNTED DUPLEX RECEPTACLE
	FLOOR MOUNTED DUPLEX RECEPTACLE
TV / COMMUNICATION	
	DATA OUTLET - WALL, FLOOR, CEILING MOUNTED. PROVIDE 27mm C (1" C) FROM WALL TO OUTLET BACKBOX TO ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED.

SINGLE LINE DIAGRAM	
	FUSE
	FUSED DISCONNECT
	DISCONNECT SWITCH
	CIRCUIT BREAKER
	DRAW-OUT CIRCUIT BREAKER
	TRANSFORMER
	PT - POTENTIAL TRANSFORMER
	CT - CURRENT TRANSFORMER
	GROUND CONNECTION
	TRANSFER SWITCH
	PANEL BOARD
	GENERATOR
	AMMETER & VOLTMETER SWITCHES
	INTERLOCK: E = ELECTRIC INTERLOCK K = KEYS INTERLOCK M = MECHANICAL INTERLOCK
COMMON SYMBOLS	
	DUCTBANK DETAIL AS NOTED. 'XX' DENOTES NUMBERING. REFER TO DRAWING E1.11 FOR DETAILS
	EQUIPMENT TAG NO. MOUNTED ON WALL/FLOOR
	ELECTRICAL NOTE TAGS
	DETAIL No.3 ON DRAWING E03
	A" [B] A DENOTES INCH OR FEET; B DENOTES MILLIMETER.
SITE SERVICE	
	UNDERGROUND UTILITY POWER FEED
	UNDERGROUND CONDUIT FOR LIGHTING
	FLUSH GROUND MOUNTED HANDHOLE WITH LID
	PULL BOX

DEMOLITION PLAN	
	EXISTING UNDERCANOPY LIGHT FIXTURE TO BE REMOVED (REFER TO SITE DEMOLITION DRAWING E1.01 & E1.02)
	EXISTING EXTERIOR WALL MOUNTED LIGHT FIXTURE TO BE REMOVED (REFER TO SITE DEMOLITION DRAWING E1.01 & E1.02)
	EXISTING EXTERIOR POLE MOUNTED LIGHTING FIXTURE TO BE REMOVED (REFER TO SITE DEMOLITION DRAWING E1.01 & E1.02)
	EXISTING EXTERIOR POLE MOUNTED LIGHTING FIXTURE TO BE REMOVED (REFER TO SITE DEMOLITION DRAWING E1.01 & E1.02)
	EXISTING TRAILER CHARGING PLUG TO BE REMOVED (REFER TO SITE DEMOLITION DRAWING E1.01 & E1.02)
	EXISTING ITEMS TO BE REMOVED UNLESS OTHER NOTED



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1
E1.02

1
E1.03

1
E1.01

ELECTRICAL OVERALL SITE PLAN - REMOVAL WORK

1:1000

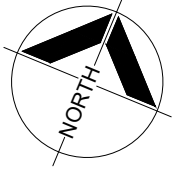


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 OTTAWA, ONTARIO
 2625 SHEFFIELD ROAD

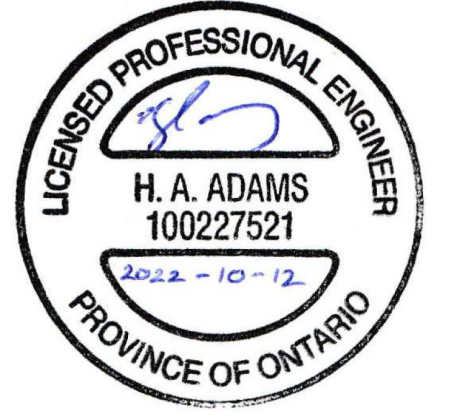
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KEY PLAN

PROJECT NUMBER
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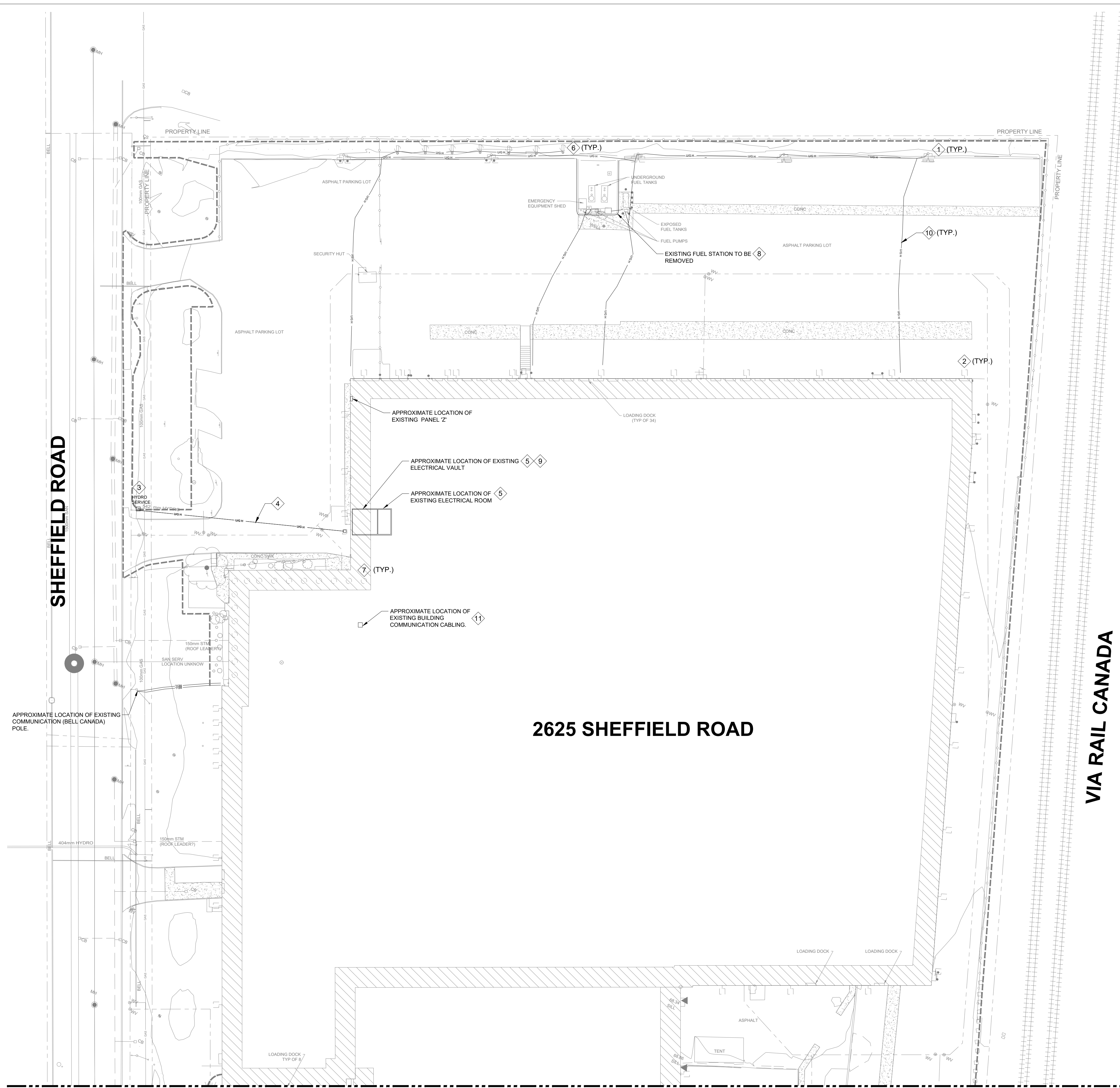
SHEET TITLE
 ELECTRICAL OVERALL SITE PLAN
 REMOVAL WORK

SHEET NUMBER
 E1.01

PLAN NO.: xxx

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NOTES:

- 1 REMOVE EXISTING LIGHT POLE AND ASSOCIATED LIGHT FIXTURE(S) AND POLE BASE C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES BACK TO THE SOURCE PANEL AND MAKE SAFE. CONTRACTOR TO SITE VERIFY SOURCE PANEL.
- 2 REMOVE ALL EXTERIOR WALL MOUNTED LIGHTING FIXTURES C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES BACK TO THE SOURCE PANEL AND MAKE SAFE. CONTRACTOR TO SITE VERIFY SOURCE PANEL.
- 3 INCOMING UTILITY POLE TO REMAIN.
- 4 EXISTING PRIMARY INSTALLATION TO BE REMOVED. COORDINATE WITH HYDRO OTTAWA (LOCAL UTILITY SERVICE PROVIDER) FOR POWER SHUT DOWN AND RECONNECTION.
- 5 EXISTING SECONDARY CABLES TO BE REMOVED. CONTRACTOR TO DISCONNECT AND PROVIDE POWER RECONNECTION FOR NEW MAIN SWITCHBOARD INSTALLATION.
- 6 EXISTING TRAILER CHARGING PLUGS C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES TO BE DISCONNECTED AND REMOVED BACK TO SOURCE PANEL AND MAKE SAFE. EXISTING TRAILER CHARGING PLUGS ARE FED FROM PANEL 'Z' LOCATED AT THE GARAGE AREA. CONTRACTOR TO SITE VERIFY EXISTING INFORMATION.
- 7 REMOVE ALL UNDER CANOPY LIGHTING FIXTURES C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES BACK TO THE SOURCE PANEL AND MAKE SAFE. CONTRACTOR TO SITE VERIFY SOURCE PANEL.
- 8 EXISTING FUEL STATION IS BEING REMOVED BY OTHERS. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL INSTALLATION AT THIS AREA. ALL EXISTING WIRING/CONDUIT SHALL BE REMOVED BACK TO SOURCE PANEL C/W EXISTING SUPPORTS AND ACCESSORIES.
- 9 EXISTING 13.2KV-600/347V MAIN HIGH VOLTAGE CUSTOMER OWNED TRANSFORMER LOCATED AT ELECTRICAL VAULT TO BE REMOVED.
- 10 EXISTING UNDERGROUND WIRING/CONDUIT TO BE REMOVED BACK TO THE SOURCE PANEL AND MAKE SAFE. ALSO SEE NOTE #3 AND NOTE#4 ON THIS DRAWING.
- 11 PROTECT EXISTING COMMUNICATION CABLING FOR FUTURE EXTENSION.

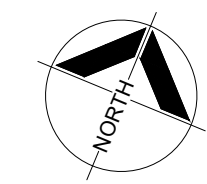


PROJECT
 DYT3 Gen3.1 BTS
 OTTAWA, ONTARIO
 2625 SHEFFIELD ROAD

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PROJECT NUMBER
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SHEET TITLE
 ELECTRICAL SITE PLAN
 REMOVAL WORK
 1 OF 2

SHEET NUMBER
 E1.02

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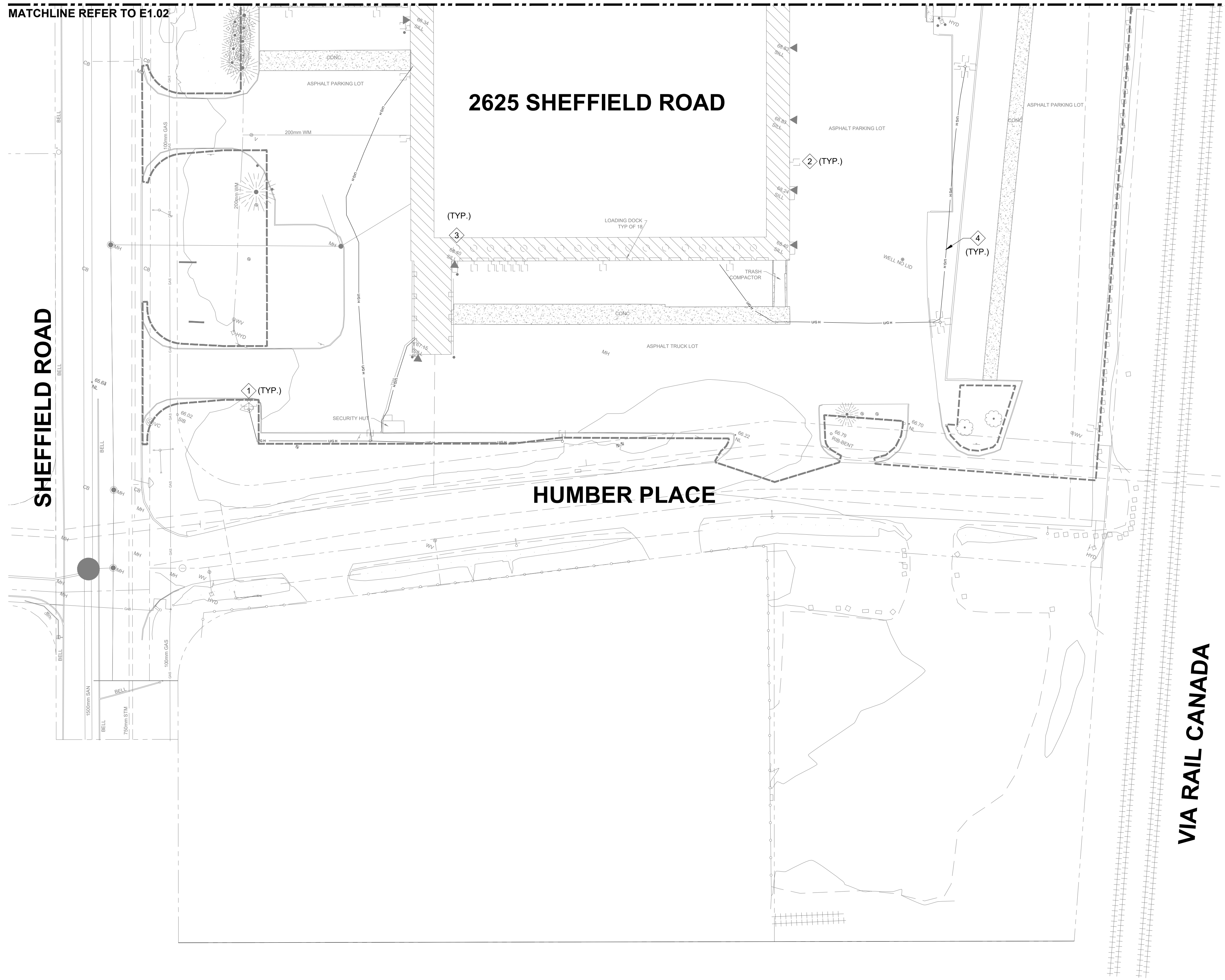
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MATCHLINE REFER TO E1.03

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MATCHLINE REFER TO E1.02

MATCHLINE REFER TO E1.02



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- 2 REMOVE ALL EXTERIOR WALL MOUNTED LIGHTING FIXTURES C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES BACK TO THE SOURCE PANEL AND MAKE SAFE. CONTRACTOR TO SITE VERIFY SOURCE PANEL.
- 3 REMOVE ALL UNDER CANOPY LIGHTING FIXTURES C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES BACK TO THE SOURCE PANEL AND MAKE SAFE. CONTRACTOR TO SITE VERIFY SOURCE PANEL.
- 4 EXISTING UNDERGROUND WIRING/CONDUIT TO BE REMOVED BACK TO THE SOURCE PANEL AND MAKE SAFE. ALSO SEE NOTE #3 AND NOTE#4 ON DRAWING E1.02.

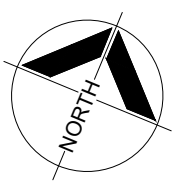


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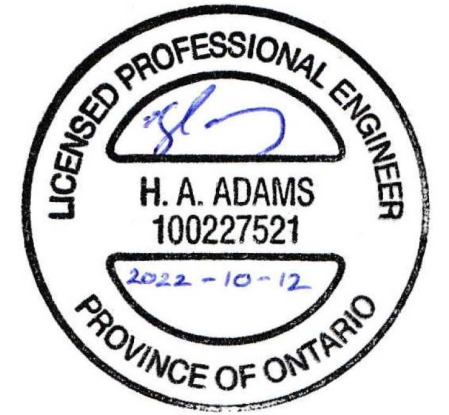
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PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
REMOVAL WORK
2 OF 2

SHEET NUMBER

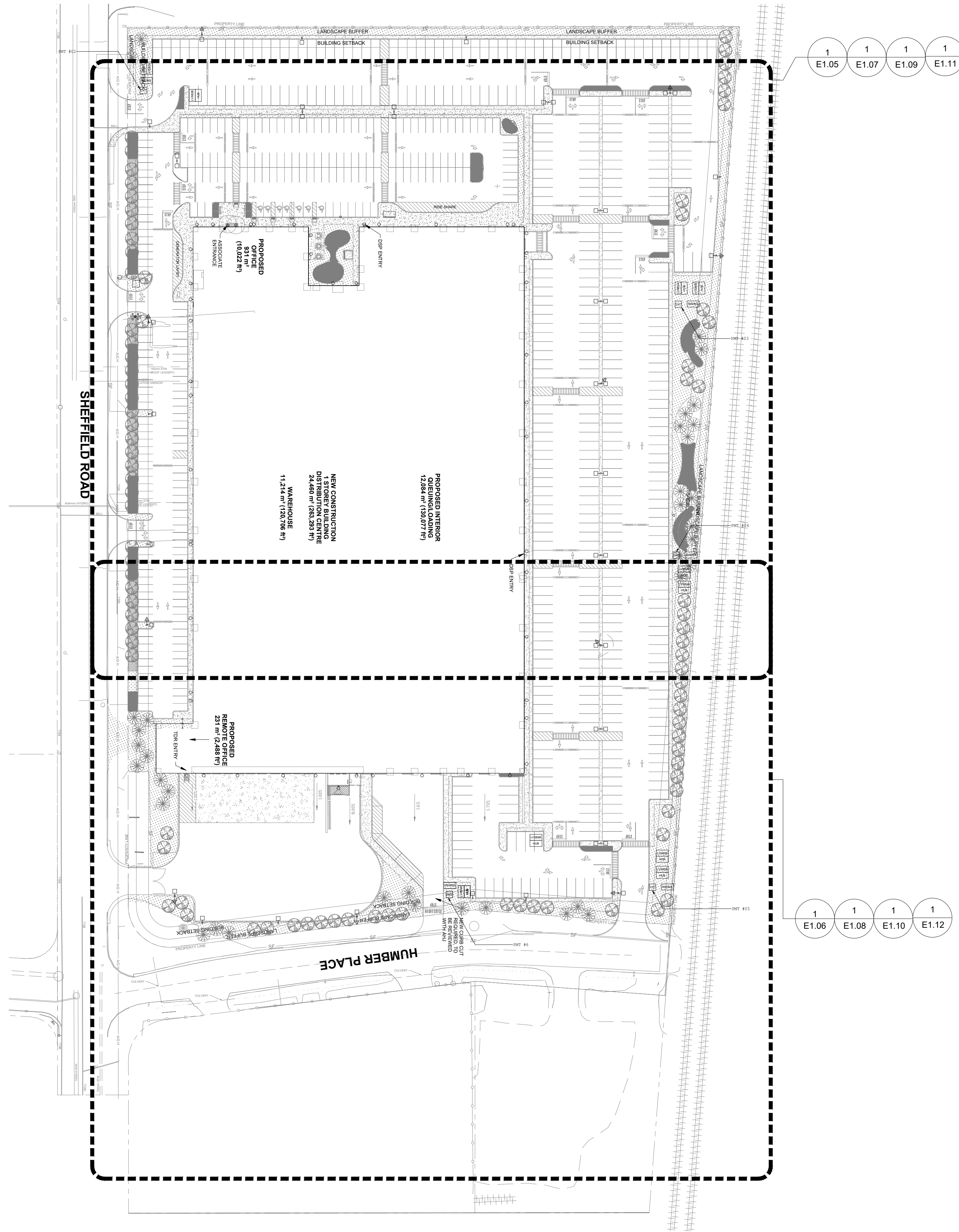
E1.03

PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - REMOVAL WORK - 2 OF 2
 E1.03 1:500

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1 ELECTRICAL OVERALL SITE PLAN - NEW WORK
 E1.04 1:1000

1
E1.06

1
E1.08

1
E1.10

1
E1.12

1
E1.05

1
E1.07

1
E1.09

1
E1.11

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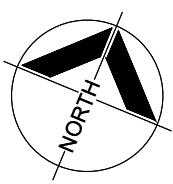
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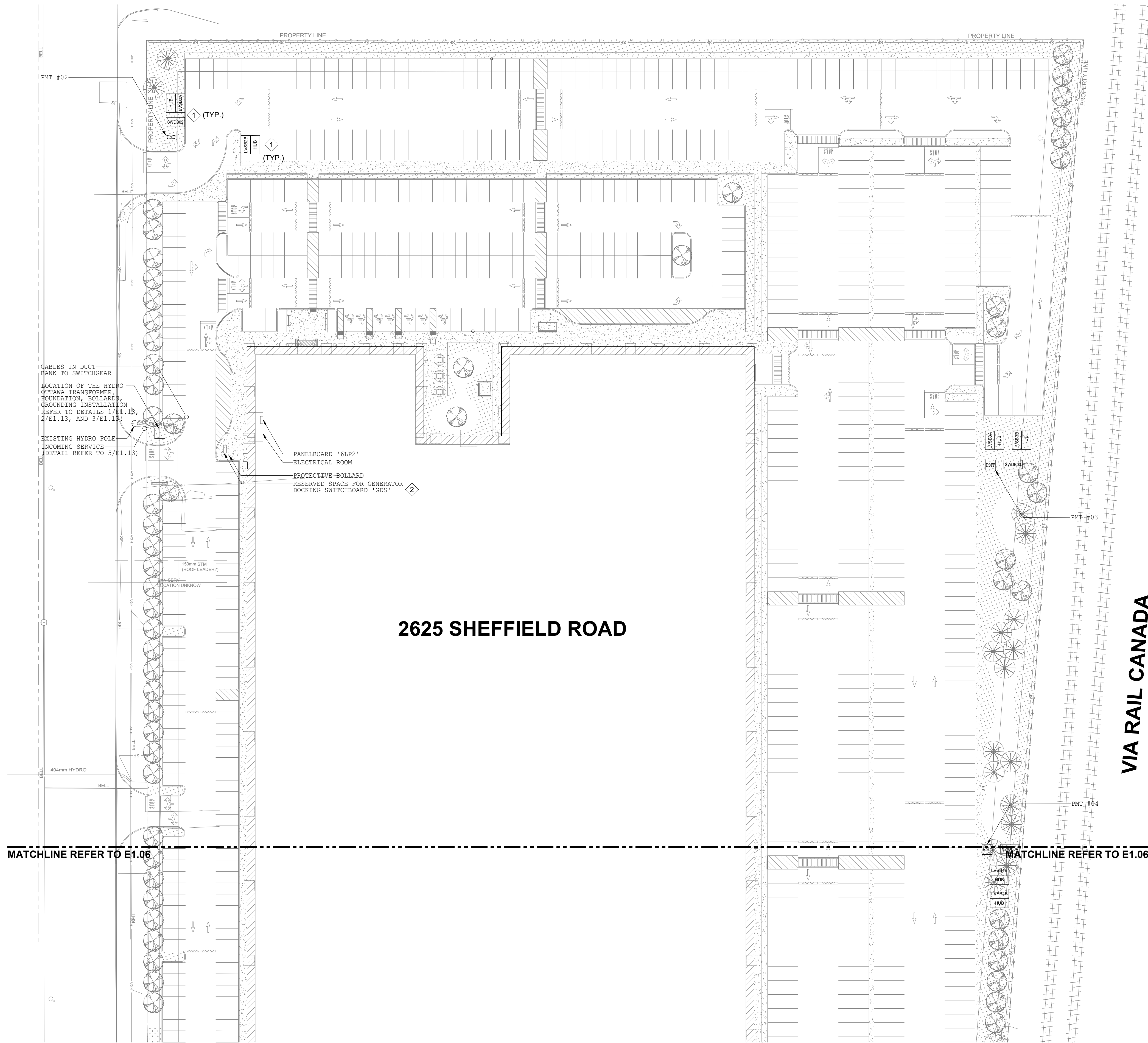
SHEET TITLE

ELECTRICAL OVERALL SITE PLAN
 NEW WORK

SHEET NUMBER

E1.04

PLAN NO.: xxx



NOTES:

- ① LOCATIONS RESERVED FOR ELECTRIC VEHICLE CHARGING SYSTEM EQUIPMENT (PAD MOUNTED TRANSFORMER, SWITCHGEAR, AND COMMUNICATION HUB) TO BE INSTALLED IN FUTURE.
- ② GENERATOR DOCKING SWITCHBOARD WITH CAM-LOCKS (SIMILAR AS BOD: ESL POWER SYSTEM INC'S TEMPTAP). SERVICE ENTRANCE RATED, NEMA 3R. PROVIDE WITH REQUIRED NUMBER OF CAM-LOCK CONNECTORS (SUITABLE FOR THE NUMBER AND SIZE OF FEEDERS) FOR CONNECTION OF ROLL-UP EMERGENCY GENERATOR. PROVIDE PROTECTED BOLLARDS AND HOUSEKEEPING PAD AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION.



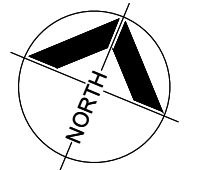
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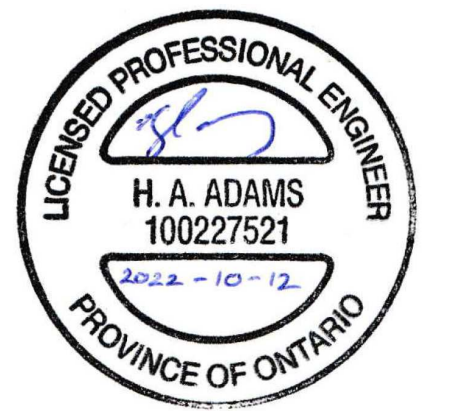
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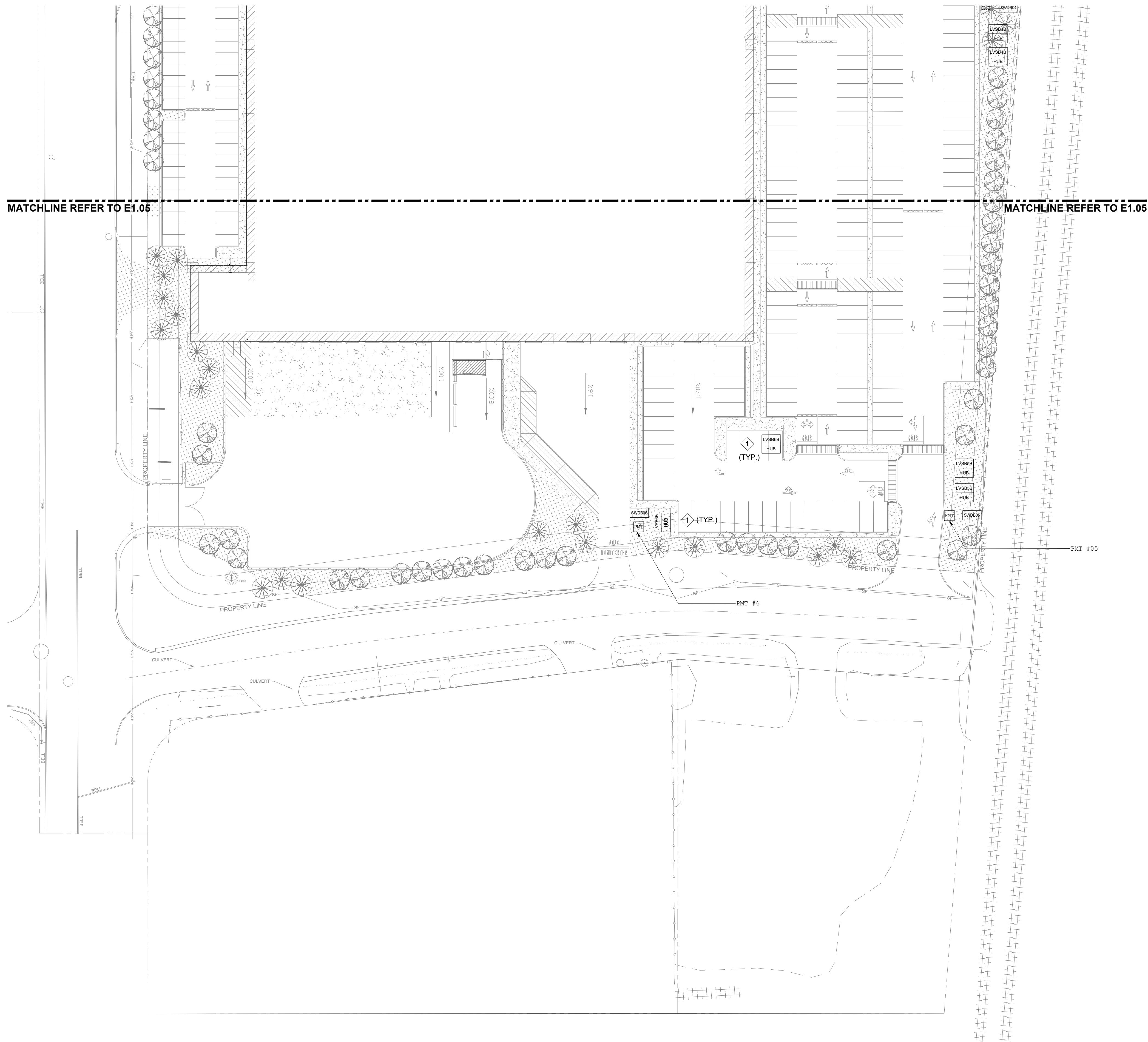
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 ELECTRICAL SITE PLAN
 SITE SERVICING - NEW WORK
 1 OF 2

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 E1.05 PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - SITE SERVICING - NEW WORK - 1 OF 2
 E1.05 1:500

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NOTES:

- ◊ LOCATIONS RESERVED FOR ELECTRIC VEHICLE CHARGING SYSTEM EQUIPMENT (PAD MOUNTED TRANSFORMER, SWITCHGEAR, AND COMMUNICATION HUB) TO BE INSTALLED IN FUTURE.

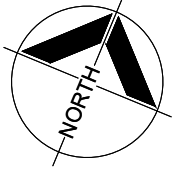


PROJECT
 DYT3 Gen3.1 BTS
 OTTAWA, ONTARIO
 2625 SHEFFIELD ROAD

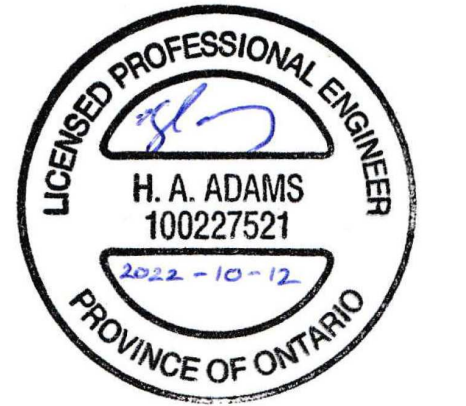
OWNER
 Choice Properties Reit
 700-22 St.Clair Avenue East
 Toronto, Ontario M4T 2S5
 647-533-5057

CONSULTANT
 AECOM Canada Ltd.
 50 Sportsworld Crossing Road, Suite 290
 Kitchener, Ontario, N2P 0A4
 519 650 5313 tel 519 650 3424 fax
 www.aecom.com

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I/R	DATE	DESCRIPTION
2	2022-10-07	ISSUED FOR SPA
1	2022-08-30	LANDLORD REVIEW - SPA SET

KEY PLAN

PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
 SITE SERVICING - NEW WORK
 2 OF 2

SHEET NUMBER

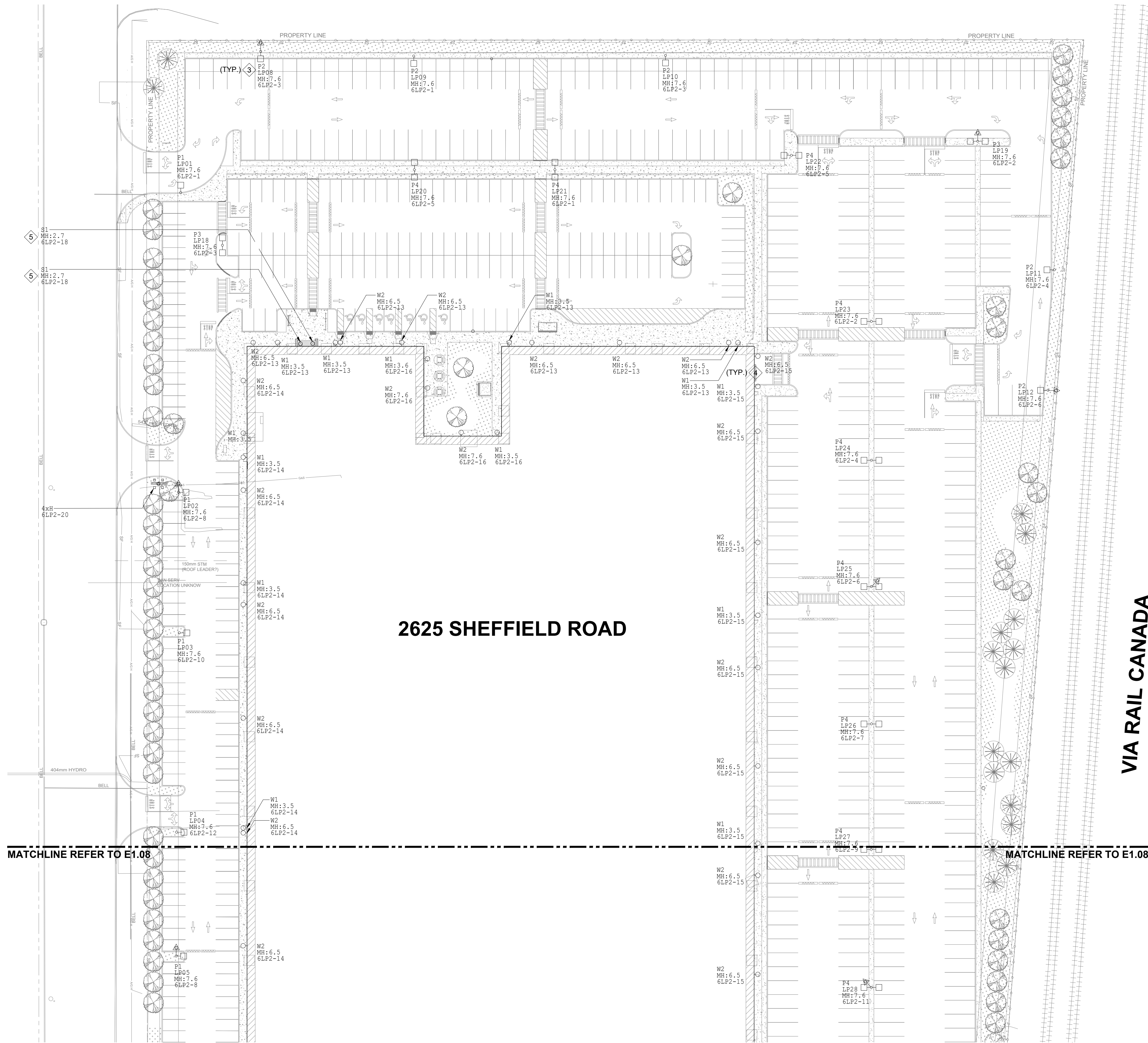
E1.06

PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - SITE SERVICING - NEW WORK - 2 OF 2
 E1.06 1:500

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NOTES:

1. REFER TO DRAWING E1.09 & E 1.10 FOR THE SITE PLAN LIGHTING PHOTOMETRIC PLAN.
2. REFER TO DRAWING E1.13 FOR LUMINAIRE SCHEDULE AND POLE SCHEDULE.
3. PROVIDE NEW LIGHT FIXTURE C/W POLE, POLE BASE, ARMS, CONDUIT & WIRING. REFER TO DETAIL 5/E1.13 FOR TYPICAL POLE BASE, DETAIL 2/E1.13 FOR NEW LIGHTING POLE SCHEDULE, AND DETAIL 1/E1.13 FOR NEW LIGHTING FIXTURE SCHEDULE.
4. PROVIDE NEW LIGHT FIXTURE MOUNTED ON EXTERIOR WALL. REFER TO DETAIL 1/E1.14 FOR NEW LIGHTING FIXTURE SCHEDULE.
5. TYPE 'S1' LIGHTS ARE CEILING RECESSED MOUNTED UNDER THE CANOPY.

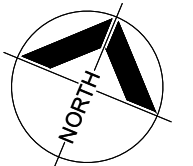


PROJECT
DYT3 Gen3.1 BTS
OTTAWA, ONTARIO
 2625 SHEFFIELD ROAD

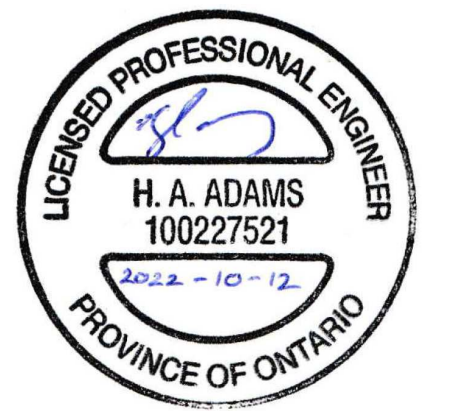
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KEY PLAN

PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
 LIGHTING - NEW WORK
 1 OF 2

SHEET NUMBER

E1.07

PLAN NO.: xxx

2625 SHEFFIELD ROAD

VIA RAIL CANADA

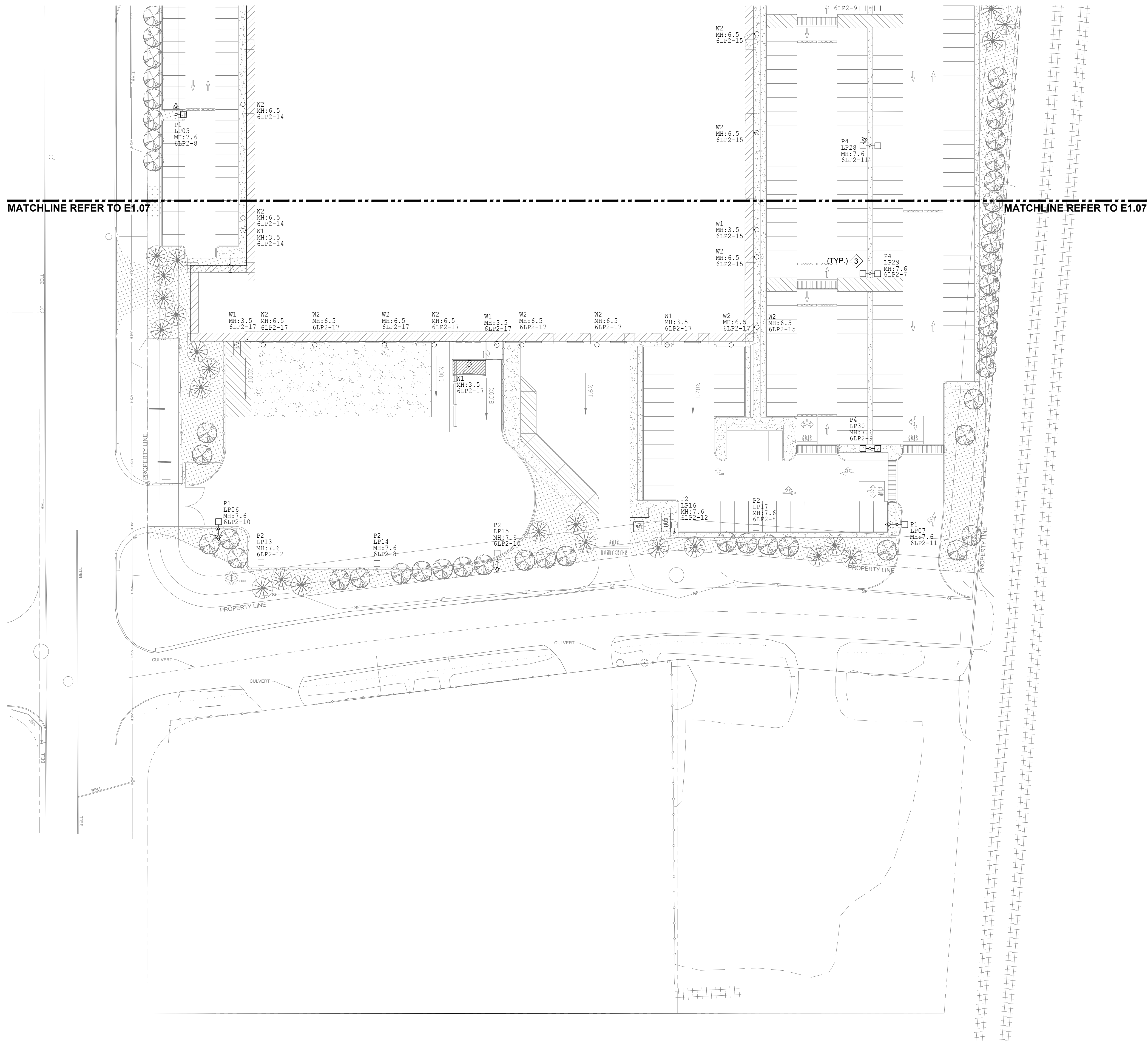
MATCHLINE REFER TO E1.08

MATCHLINE REFER TO E1.08

1 ELECTRICAL SITE PLAN - LIGHTING - NEW WORK - 1 OF 2
 E1.07 1:500

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3. PROVIDE NEW LIGHT FIXTURE C/W POLE, POLE BASE, ARMS, CONDUIT & WIRING. REFER TO DETAIL 5/E1.14 FOR TYPICAL POLE BASE, DETAIL 2/E1.14 FOR NEW LIGHTING POLE SCHEDULE AND DETAIL 1/E1.14 FOR NEW LIGHTING FIXTURE SCHEDULE.

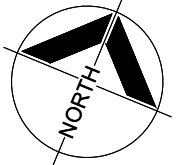


PROJECT
 DYT3 Gen3.1 BTS
 OTTAWA, ONTARIO
 2625 SHEFFIELD ROAD

OWNER
 Choice Properties Reit
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 Toronto, Ontario M4T 2S5
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CONSULTANT
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KEY PLAN

PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
 LIGHTING - NEW WORK
 2 OF 2

SHEET NUMBER

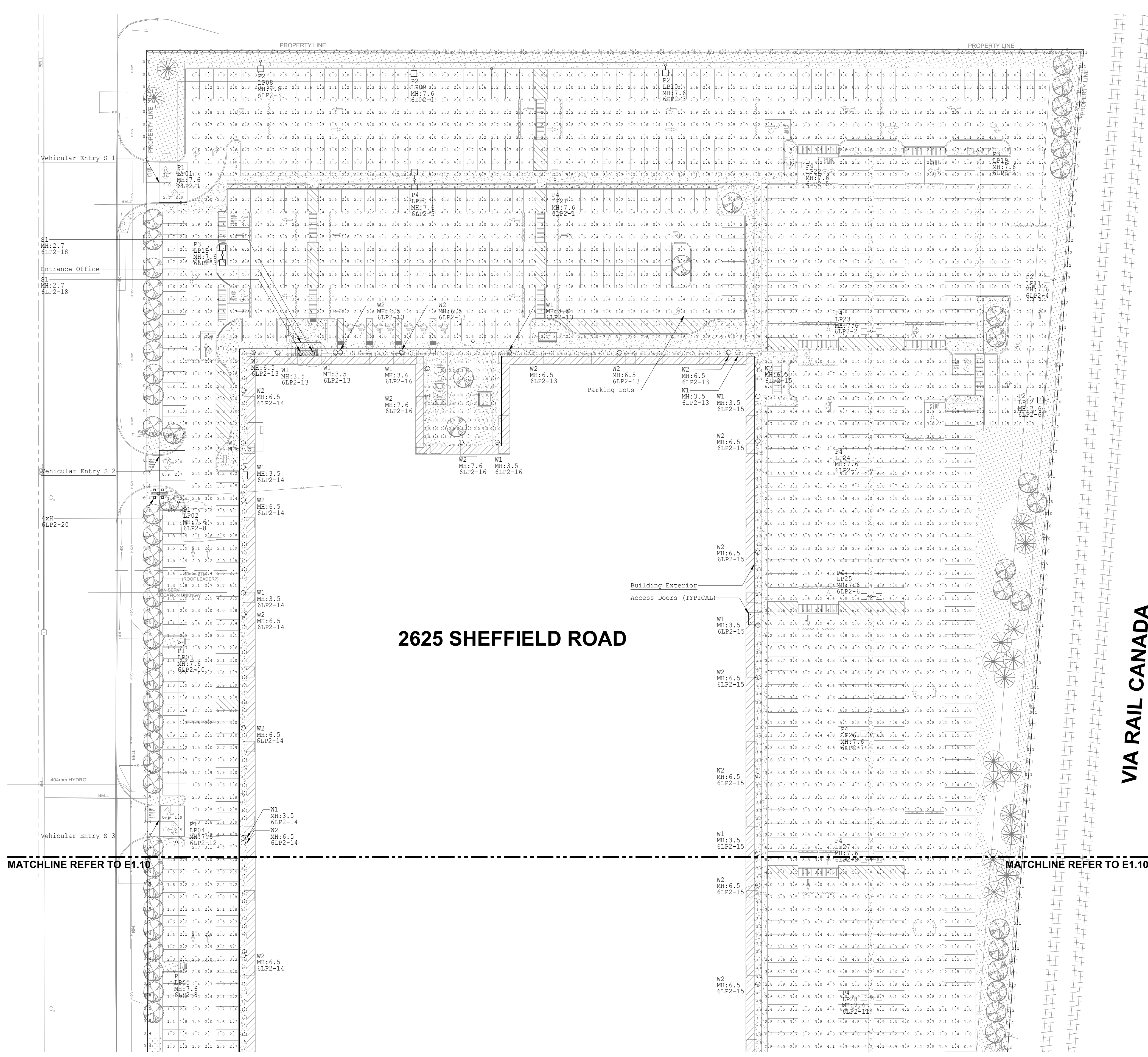
E1.08

PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - LIGHTING - NEW WORK - 2 OF 2
 E1.08 1:500

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NOTES:

- REFER TO DRAWING E1.13 FOR LUMINAIRE SCHEDULE AND POLE SCHEDULE.

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Access Doors (TYPICAL)	ILLUMINANCE	Fc	11.18	13.1	9.2	1.22	1.42
Building Exterior	ILLUMINANCE	Fc	3.56	16.7	1.1	3.24	15.18
Entrance Office	ILLUMINANCE	Fc	10.04	15.1	6.9	1.46	2.19
Loading Docks	ILLUMINANCE	Fc	3.15	5.9	1.5	2.10	3.93
Open Truck Yards	ILLUMINANCE	Fc	1.36	4.3	0.4	3.40	10.75
Parking Lots	ILLUMINANCE	Fc	2.80	9.9	0.5	5.60	19.80
Pedestrian (TYPICAL)	ILLUMINANCE	Fc	4.50	4.9	4.2	1.07	1.17
SPILLAGE	ILLUMINANCE	Fc	0.23	0.5	0.0	N.A.	N.A.
Vehicular Entry S 1	ILLUMINANCE	Fc	2.08	2.9	1.5	1.39	1.93
Vehicular Entry S 2	ILLUMINANCE	Fc	1.65	2.7	0.9	1.83	3.00
Vehicular Entry S 3	ILLUMINANCE	Fc	1.58	2.5	0.9	1.76	2.78
Vehicular Entry S 4	ILLUMINANCE	Fc	1.58	2.0	1.2	1.32	1.67



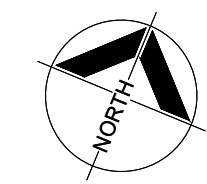
PROJECT
DYT3 Gen3.1 BTS
OTTAWA, ONTARIO
2625 SHEFFIELD ROAD

OWNER
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PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
LIGHTING CALCULATION PLAN
1 OF 2

SHEET NUMBER

E1.09

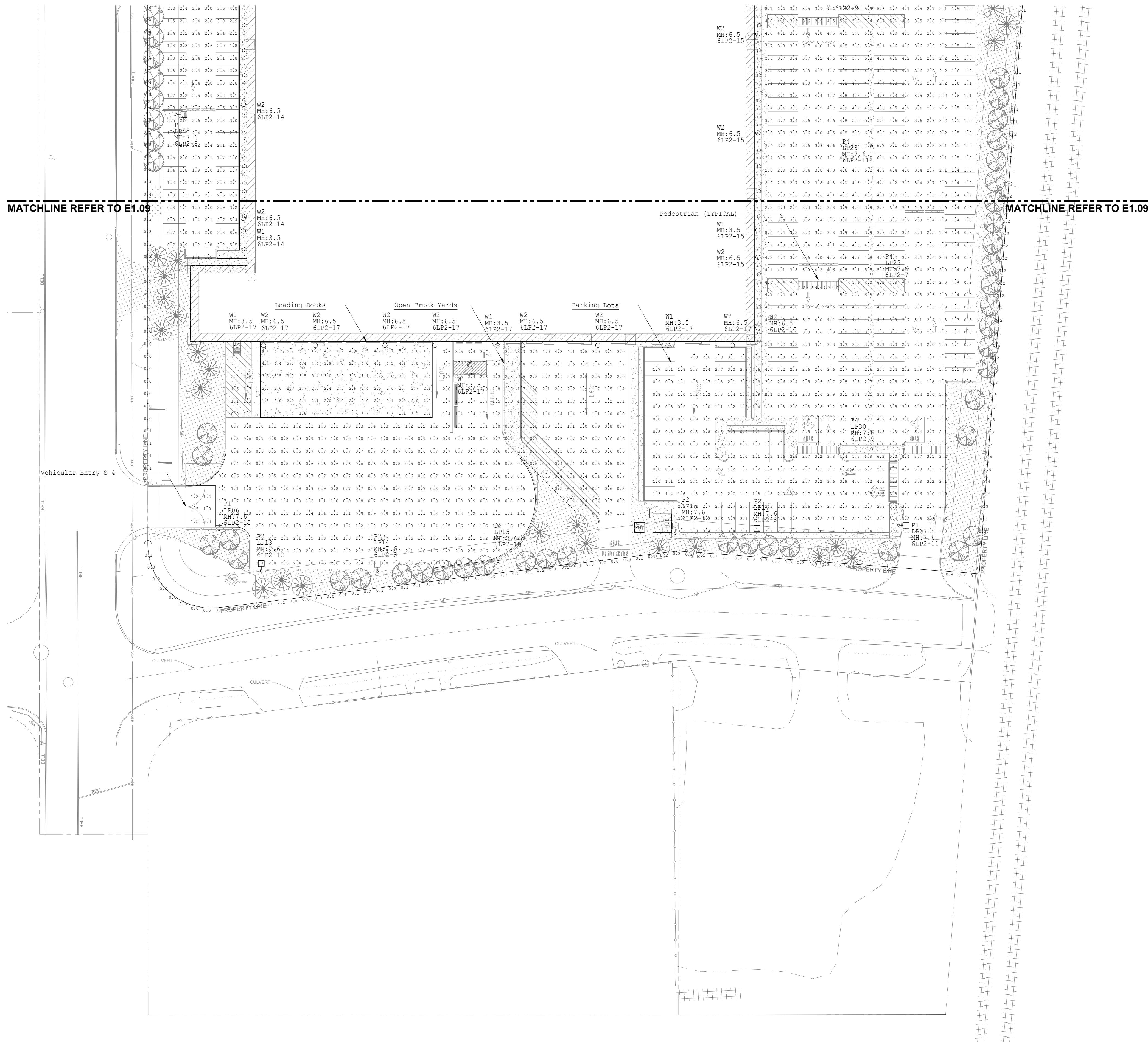
PLAN NO.: xxx

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1 ELECTRICAL SITE PLAN - LIGHTING CALCULATION - 1 OF 2
E1.09 1:500

VIA RAIL CANADA



NOTES:

- REFER TO DRAWING E1.13 FOR LUMINAIRE SCHEDULE AND POLE SCHEDULE.

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Access Doors (TYPICAL)	ILLUMINANCE	Fc	11.18	13.1	9.2	1.22	1.42
Building Exterior	ILLUMINANCE	Fc	3.56	16.7	1.1	3.24	15.18
Entrance Office	ILLUMINANCE	Fc	10.04	15.1	6.9	1.46	2.19
Loading Docks	ILLUMINANCE	Fc	3.15	5.9	1.5	2.10	3.93
Open Truck Yards	ILLUMINANCE	Fc	1.36	4.3	0.4	3.40	10.75
Parking Lots	ILLUMINANCE	Fc	2.80	9.9	0.5	5.60	19.80
Pedestrian (TYPICAL)	ILLUMINANCE	Fc	4.50	4.9	4.2	1.07	1.17
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PROJECT
 DYT3 Gen3.1 BTS
 OTTAWA, ONTARIO
 2625 SHEFFIELD ROAD

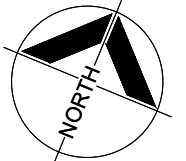
OWNER

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 Toronto, Ontario M4T 2S5
 647-533-5057

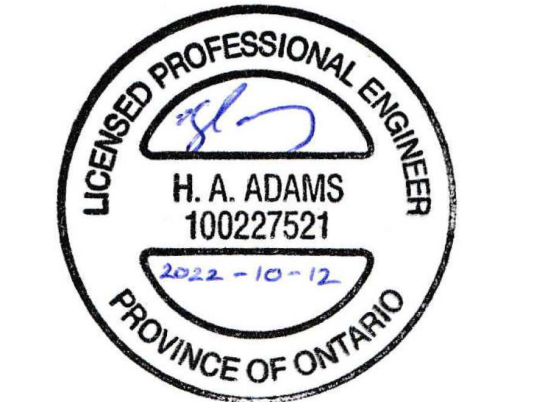
CONSULTANT

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KEY PLAN

PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
 LIGHTING CALCULATION PLAN
 2 OF 2

SHEET NUMBER

E1.10

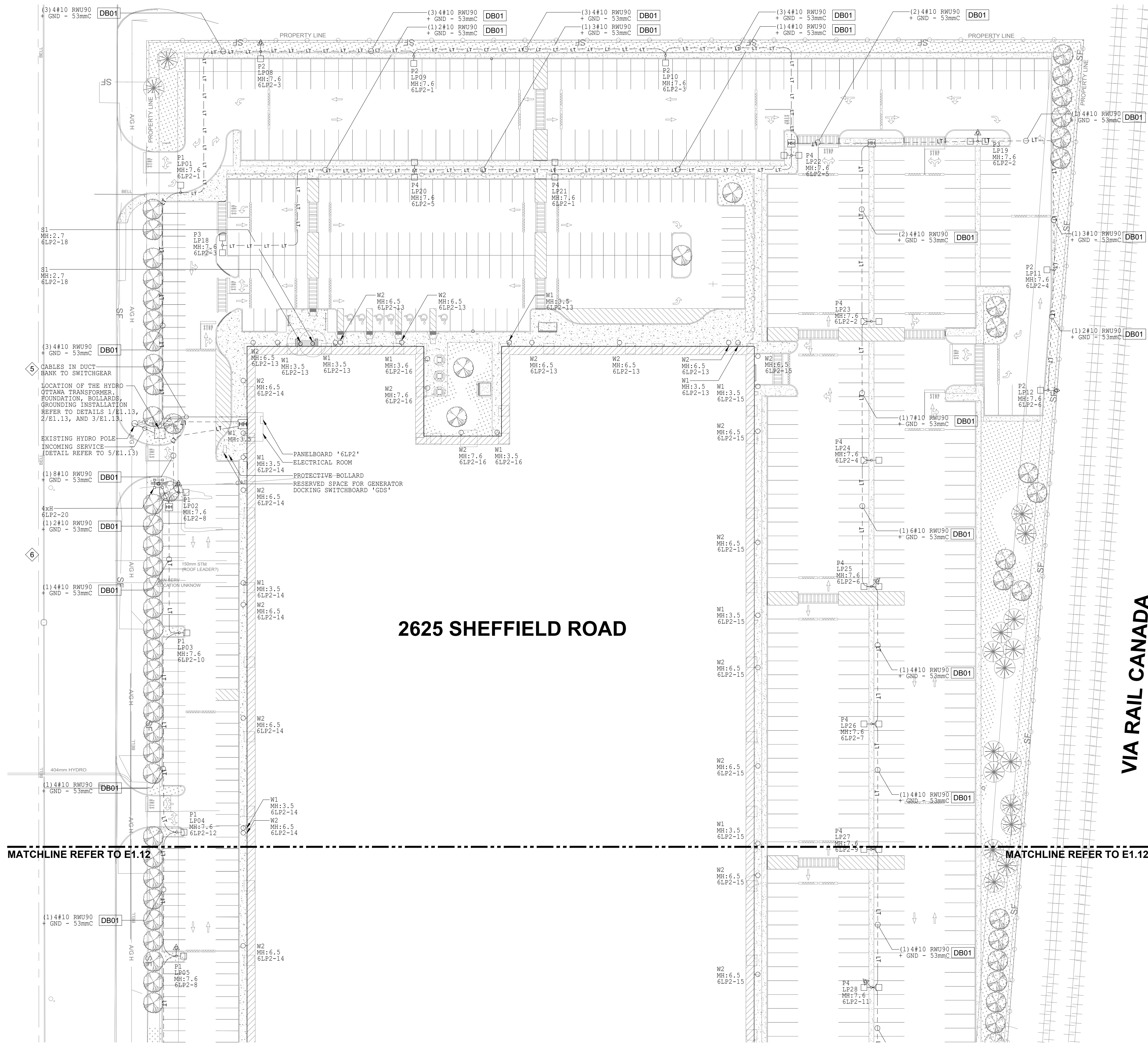
PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - LIGHTING CALCULATION - 2 OF 2

E1.10 1:500

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2625 SHEFFIELD ROAD

VIA RAIL CANADA

NOTES:

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- REFER TO DRAWING E1.13 FOR LUMINAIRE SCHEDULE AND POLE SCHEDULE.
- WHERE CIVIL PIPE (I.E. WATER MAIN, SANITARY, STORM, ETC) AND GAS LINE INTERFERE WITH THE ELECTRICAL DUCT BANKS OR WHERE DUCT BANKS CROSS EACH OTHER, CONSTRUCT THE ELECTRICAL DUCT BANK UNDERNEATH OR ABOVE THE AFOREMENTIONED SERVICES BUT MAINTAIN THE MINIMUM BURIAL DEPTH OF 760mm FROM THE FINISH GRADE TO THE TOP OF THE DUCT BANK.
- NOT USED.
- CONTRACTOR TO COORDINATE WITH HYDRO OTTAWA (LOCAL UTILITY SERVICE PROVIDER) FOR POWER RECONNECTION OF NEW MAIN SWITCHBOARD LOCATED AT THE MAIN ELECTRICAL ROOM.
- PROVIDE POWER CONNECTIONS FOR MONUMENT SIGN MS-1. 2#10AWG IN 53 mmC. COORDINATE EXACT LOCATION ON SITE. CONTRACTOR TO CONFIRM EXACT POWER REQUIREMENT AND PROVIDE STEP-DOWN TRANSFORMER AS REQUIRED.

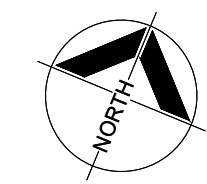


PROJECT
DYT3 Gen3.1 BTS
OTTAWA, ONTARIO
2625 SHEFFIELD ROAD

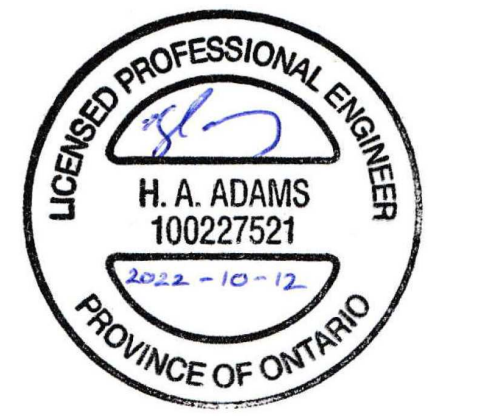
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KEY PLAN

PROJECT NUMBER
60648725

SHEET TITLE
ELECTRICAL SITE PLAN
BURIED SERVICES - NEW WORK
1 OF 2

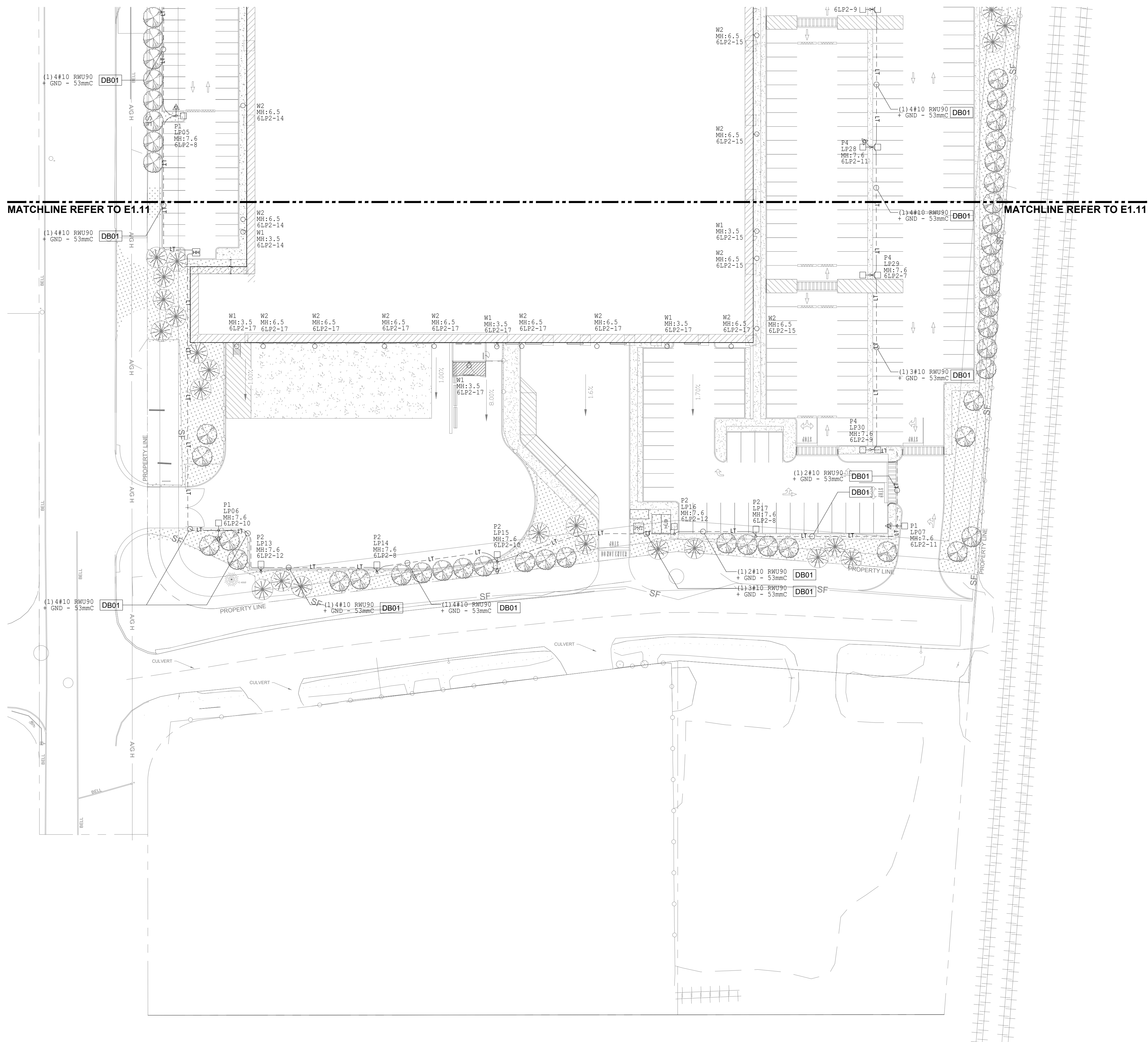
SHEET NUMBER
E1.11

PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - BURIED SERVICES - NEW WORK - 1 OF 2
E1.11 1:500

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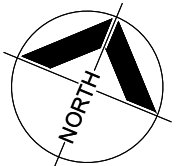
PROJECT
DYT3 Gen3.1 BTS
OTTAWA, ONTARIO
2625 SHEFFIELD ROAD

OWNER
Choice Properties Reit
700-22 St.Clair Avenue East
Toronto, Ontario M4T 2S5
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KEY PLAN

PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
BURIED SERVICES - NEW WORK
2 OF 2

SHEET NUMBER

E1.12

PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - BURIED SERVICES - NEW WORK - 2 OF 2

E1.12 1:500

NOT FOR CONSTRUCTION

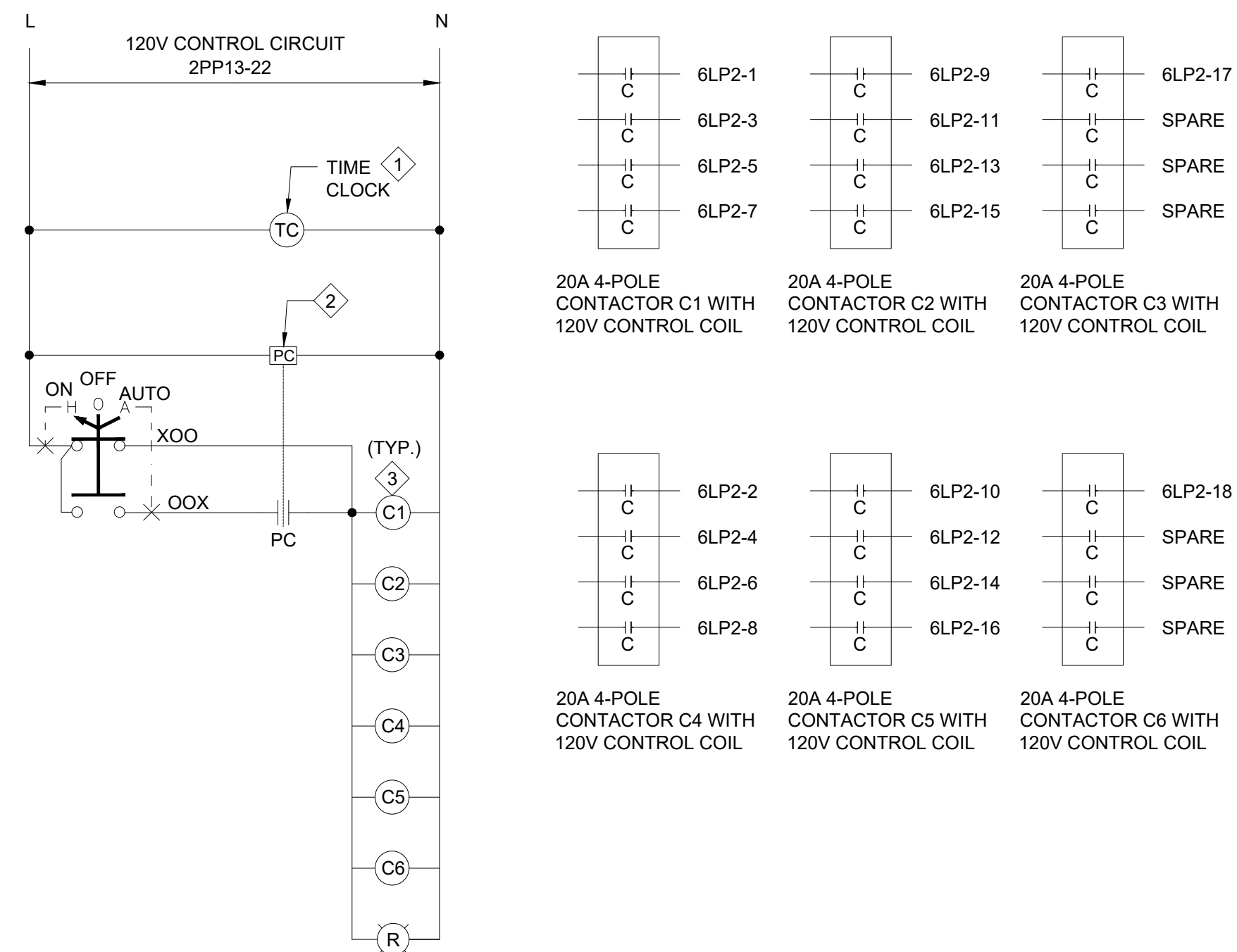
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SITE LUMINAIRE SCHEDULE									
SYMBOL & TYPE MARK	MANUFACTURER / MODEL	LAMP TYPE	VOLTS	INPUT WATTS	LUMEN	MOUNTING	QTY	MANUFACTURER'S CATALOG NUMBER	NOTES
P1	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	65W	7116 DELIVERED LUMEN	POLE MOUNTED @ 7.6m	7	GALN-SA1D-730-U-SL2	SINGLE FIXTURE
P2	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	125W	11654 DELIVERED LUMEN	POLE MOUNTED @ 7.6m	10	GLEON-SA2C-730-347-SL4-HSS	SINGLE FIXTURE
P3	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	184W	22058 DELIVERED LUMEN	POLE MOUNTED @ 7.6m	2	GALN-SA3D-730-U-SMQ	TWO (2) FIXTURES MOUNTED IN BACK-TO-BACK ARRANGEMENT
P4	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	245W	29169 DELIVERED LUMEN	POLE MOUNTED @ 7.6m	11	GALN-SA4D-730-U-5WQ	TWO (2) FIXTURES MOUNTED IN BACK-TO-BACK ARRANGEMENT
W1	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	37.7W	3995 DELIVERED LUMEN	WALL MOUNTED @ 3.5m	17	XTOR4B-Y-347	MOUNTED ON BUILDING EXTERIOR
W2	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	125W	14137 DELIVERED LUMEN	WALL MOUNTED @ 6.5m AND 7.5m	31	GALN-SA2D-730-U-T4FT	MOUNTED ON BUILDING EXTERIOR
S1	COOPER LIGHTING SOLUTIONS OR APPROVED EQUAL	LED	347V	15.8W	1396 DELIVERED LUMEN	UNDER CANOPY MOUNTED REFER TO SITE PLAN	2	LX6C15D010 EX6C159030 6LBWH	MOUNTED ON OFFICE BUILDING ENTRANCE UNDER CANOPY AREA
H	COOPER NFFLD-S OR APPROVED EQUAL	LED	347V	52W	5337 DELIVERED LUMEN	GRADE MOUNTED	2	NFFLD-S-C15-D-347-33-T-7030	GRADE MOUNTED ON SITE TO ILLUMINATE SITE SIGNAGE MS-1 AND MS-2.

NOTES:

- CONTRACTOR SHALL ORDER OPTIONS, FEATURES OR ACCESSORIES TO SUIT THE INSTALLATION REFER TO DRAWING.
- ALL LIGHTS ARE DARK SKY COMPLIANT.

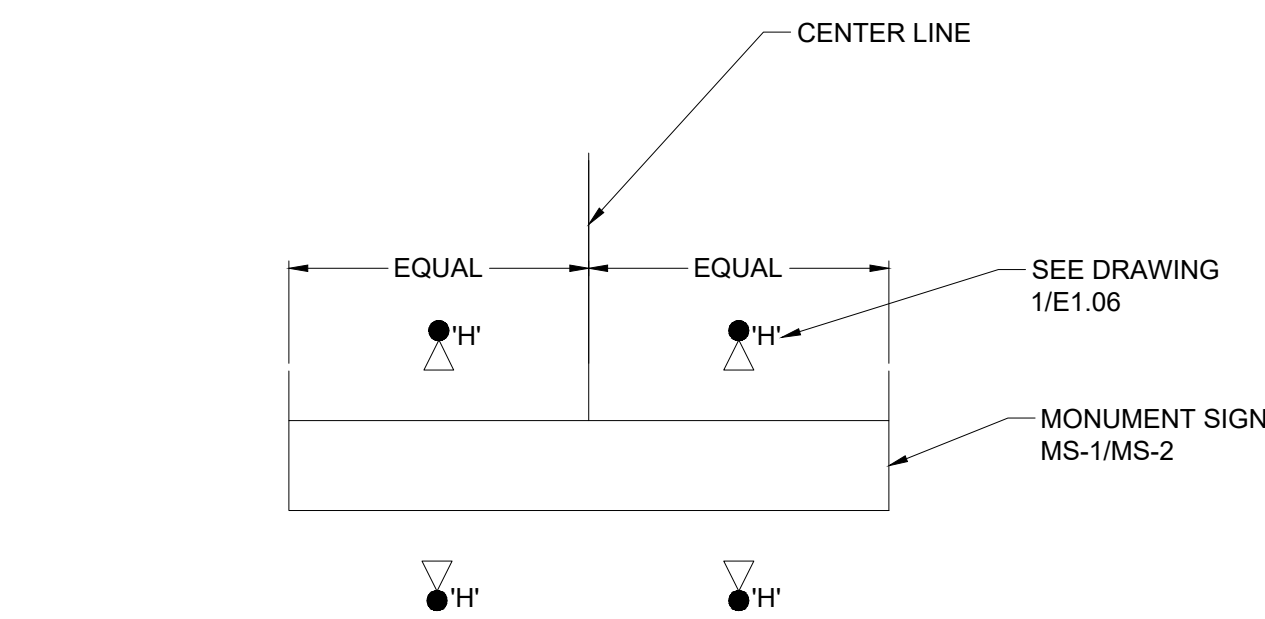
1 SITE LUMINAIRE SCHEDULE
E1.13 N.T.S.



NOTE:

- PROVIDE A 7-DAY 24-HOUR 120V TIMECLOCK EQUAL TO INTERMATIC, PART NO.: T1905. TIME CLOCK AND CONTRACTOR TO BE MOUNTED ABOVE ELECTRICAL PANEL UNLESS OTHERWISE SHOWN ON DRAWINGS.
- PROVIDE A 120V PHOTOCELL EQUAL TO INTERMATIC PART NO.: K4136M. PHOTOCELL TO BE MOUNTED ON NORTH FACE OF BUILDING WITH WEATHERPROOF JUNCTION BOX.
- PROVIDE 20A RATED CONTACTORS WITH 347V COILS AND 347/120V CONTROL TRANSFORMERS. CONTACTORS TO BE MOUNTED BESIDE TIMECLOCK. PROVIDE SUFFICIENT CONTACT POLES FOR EACH LIGHTING CIRCUITS.

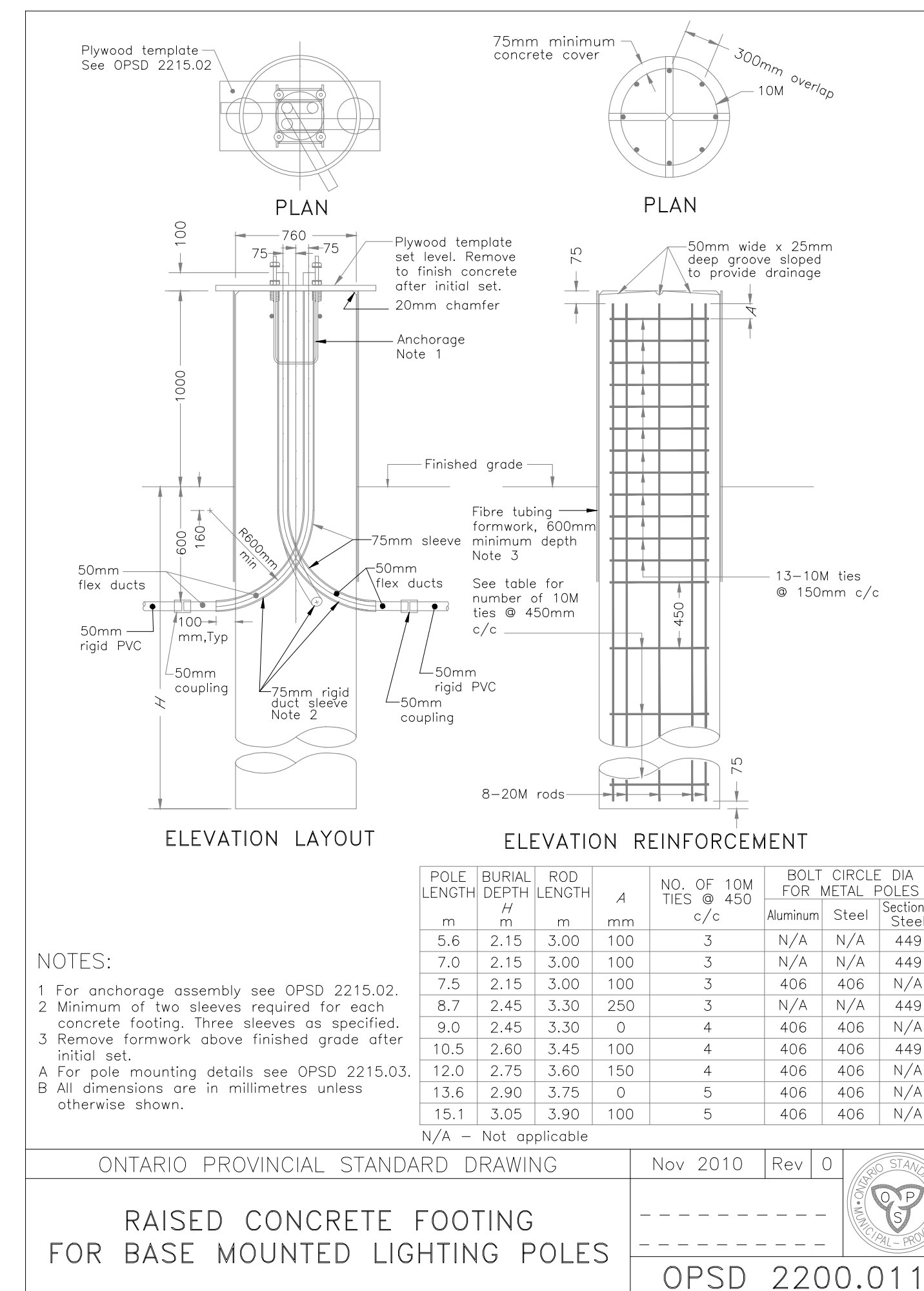
3 EXTERIOR LIGHTING CONTROL SCHEMATIC
E1.13 N.T.S.



4 MONUMENT / PYLON SIGN DETAILS
E1.13 N.T.S.

POLE SCHEDULE					
POLE NUMBER	FIXTURE TYPE	TOTAL WATTS	MOUNTING HEIGHT	POLE HEIGHT	REMARKS
LP01, LP02, LP03, LP04, LP05, LP06, LP07	P1	65W	7.6m	7.5m	SINGLE (1) FIXTURE MOUNTED ON NEW POLE
LP08, LP09, LP10, LP11, LP12, LP13, LP14, LP15, LP16, LP17	P2	125W	7.6m	7.5m	SINGLE (1) FIXTURE MOUNTED ON NEW POLE
LP18, LP19	P3	184W	7.6m	7.5m	TWO (2) FIXTURES MOUNTED IN BACK-TO-BACK ARRANGEMENT ON NEW POLE
LP21, LP22, LP23, LP24, LP25, LP26, LP27, LP28, LP29, LP30	P4	245W	7.6m	7.5m	TWO (2) FIXTURES MOUNTED IN BACK-TO-BACK ARRANGEMENT ON NEW POLE

2 EXTERIOR LIGHTING POLE SCHEDULE
E1.13 N.T.S.



NOTES:

- For anchorage assembly see OPSD 2215.02.
 - Minimum of two sleeves required for each concrete footing. Three sleeves as specified.
 - Remove formwork above finished grade after initial set.
- A For pole mounting details see OPSD 2215.03.
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2010 Rev 0

RAISED CONCRETE FOOTING FOR BASE MOUNTED LIGHTING POLES

OPSD 2200.011

5 POLE BASE DETAIL
E1.13 N.T.S.



PROJECT
DYT3 Gen3.1 BTS
OTTAWA, ONTARIO
2625 SHEFFIELD ROAD

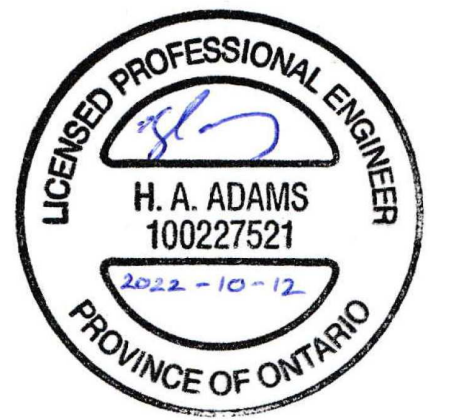
OWNER
Choice Properties Reit
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647-533-5057

CONSULTANT
AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
519 650 5313 tel 519 650 3424 fax
www.aecom.com

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REGISTRATION



ISSUE/REVISION

NO.	DATE	DESCRIPTION
2	2022-10-07	ISSUED FOR SPA
1	2022-08-30	LANDLORD REVIEW - SPA SET

KEY PLAN

PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
LIGHTING DETAILS

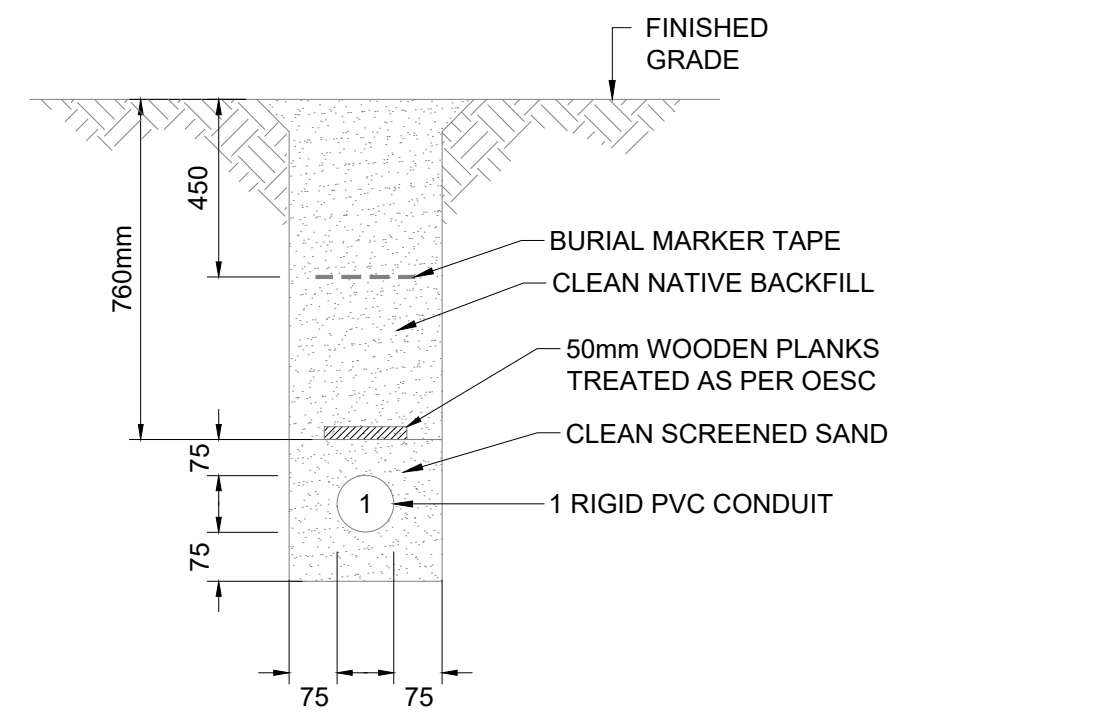
SHEET NUMBER

E1.13

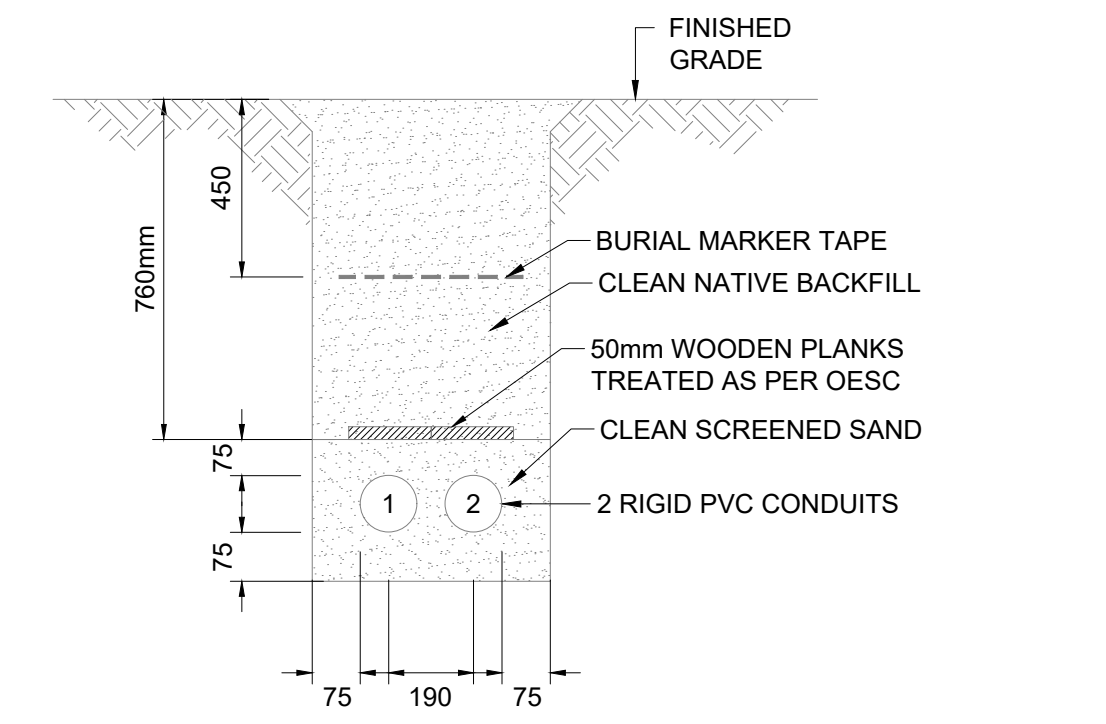
PLAN NO.: xxx

NOT FOR CONSTRUCTION

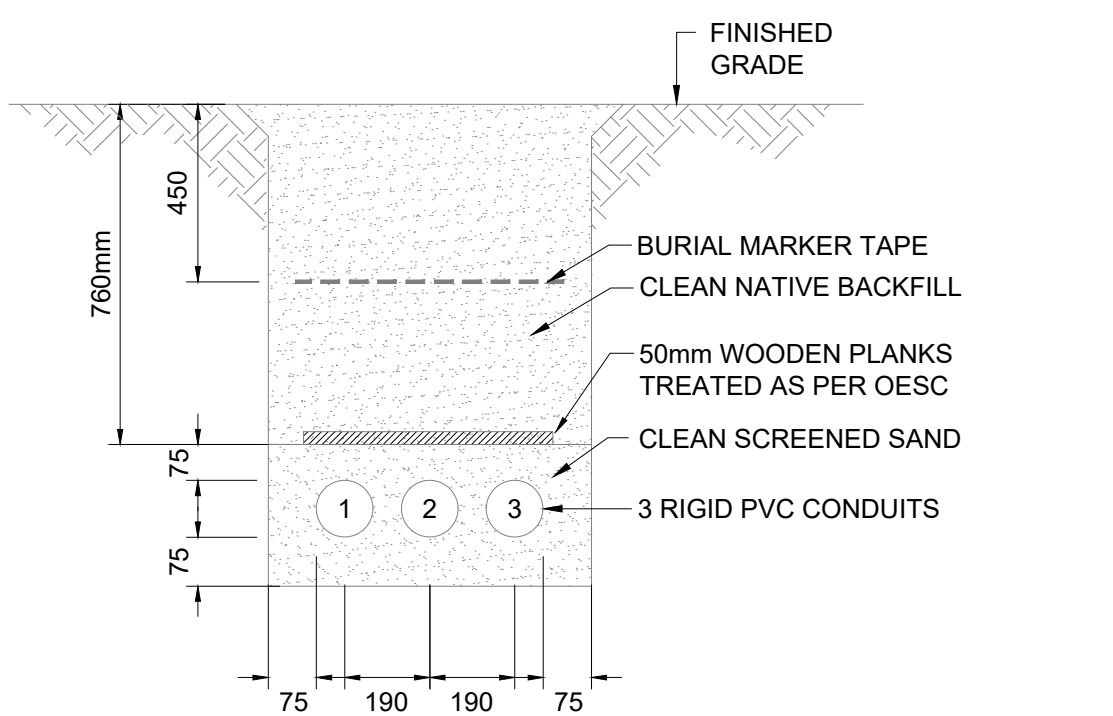
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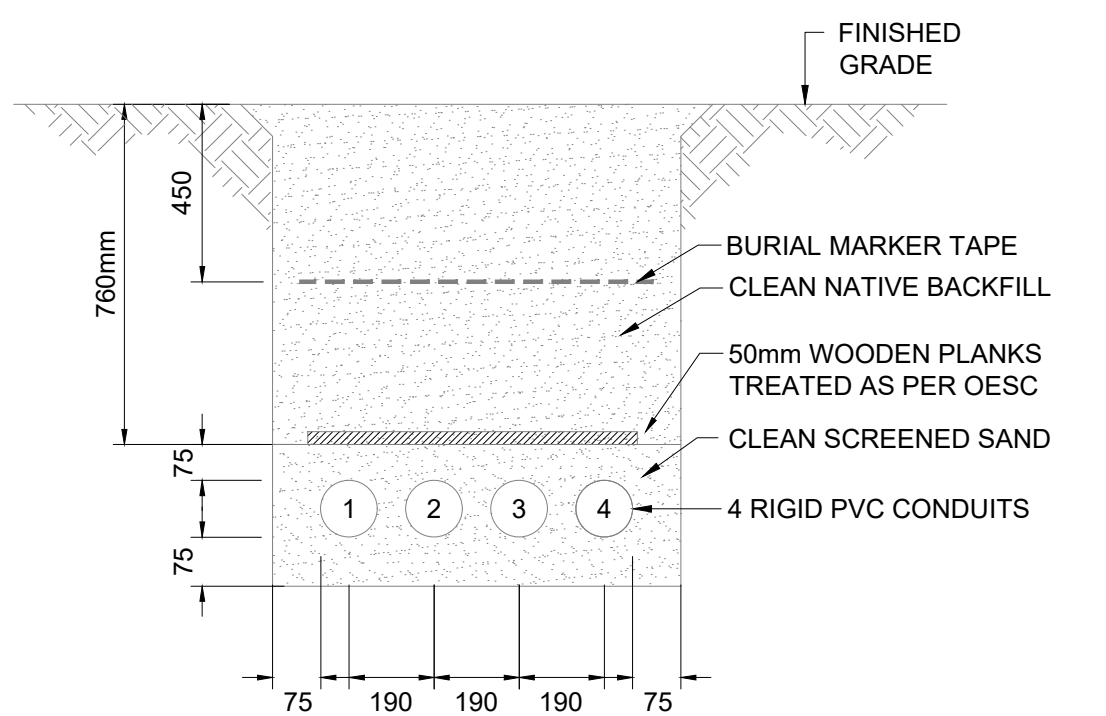
1 UNDERGROUND CONDUIT - 1 CONDUIT
 DIRECT BURIED - DB01 N.T.S.



2 UNDERGROUND CONDUIT - 2 CONDUITS
 DIRECT BURIED - DB02 N.T.S.



3 UNDERGROUND CONDUIT - 3 CONDUITS
 DIRECT BURIED- DB03 N.T.S.



4 UNDERGROUND CONDUIT - 4 CONDUITS
 DIRECT BURIED- DB04 N.T.S.

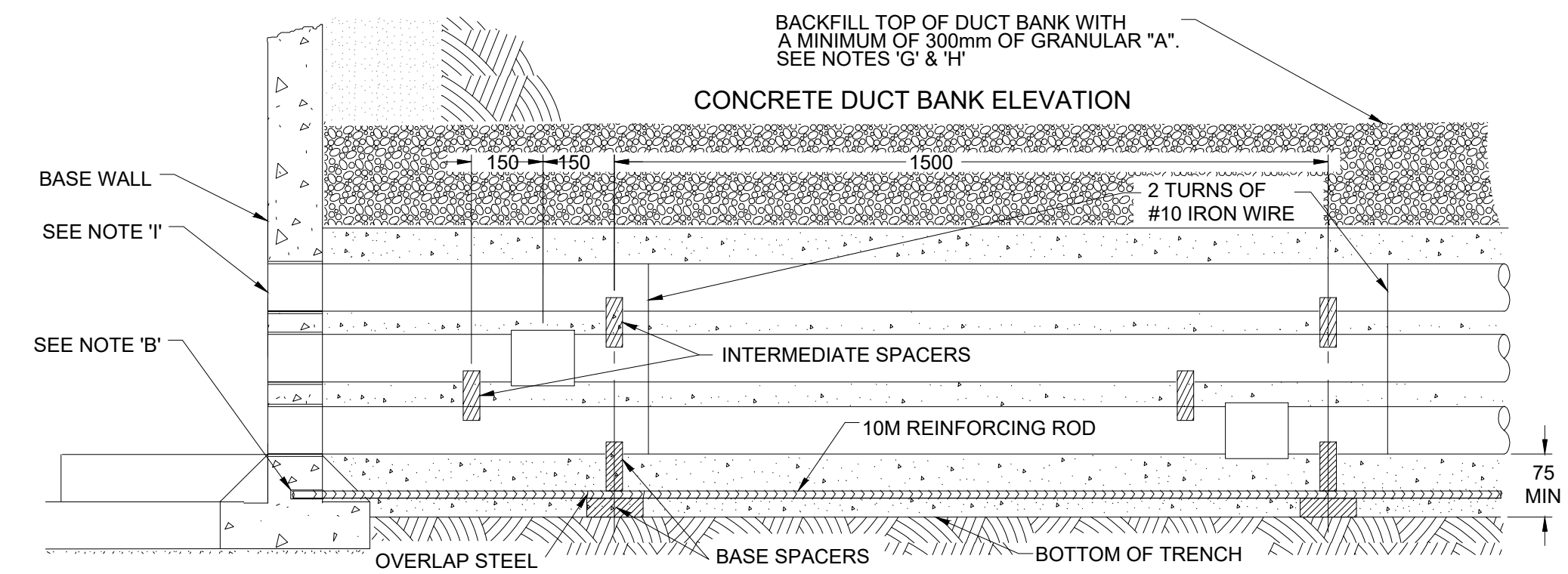
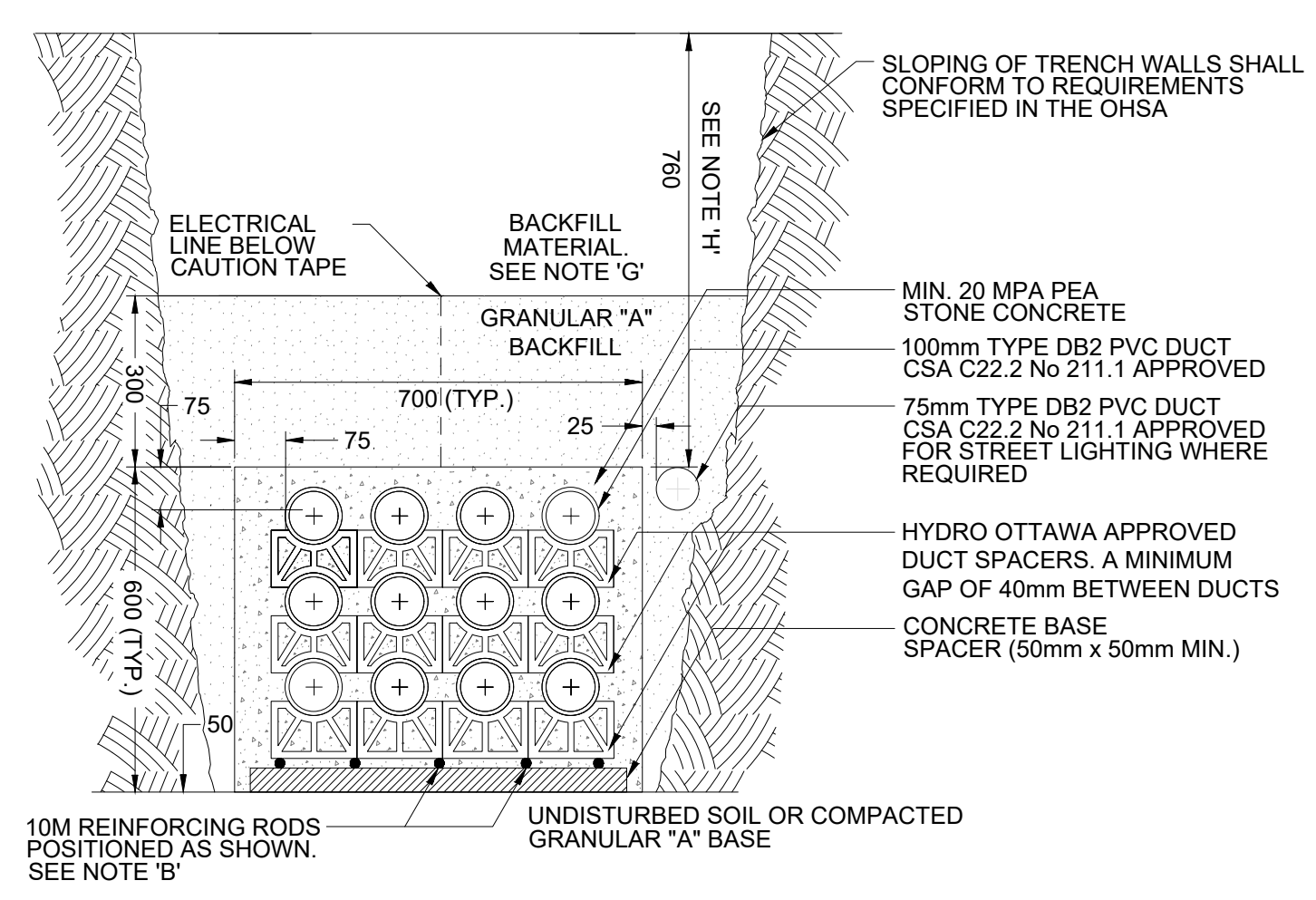


FIG 1. TYPICAL CONCRETE DUCT BANK SECTION VIEW

5 UNDERGROUND CONDUIT - 12 CONDUITS
 HYDRO OTTAWA - UDS0001 N.T.S.



- NOTES:**
- A. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
 - B. REINFORCING RODS FULL LENGTH OF CONCRETE ENCASED DUCTS. OVERLAP JOINTS BY 150mm ON BASE SPACERS AND TIE BOTH ENDS. DRILL AND DOWEL RODS 85mm INTO WALL(S) OF CONCRETE STRUCTURE.
 - C. DUCT SPACERS TO BE PLACED AT A MAXIMUM OF 150mm AND WITHIN 150mm OF COUPLING. PLASTIC DUCT SPACERS TO BE USED ONLY IF CONCRETE DUCT SPACERS ARE UNAVAILABLE.
 - D. FORMS REQUIRED FOR BOTH SIDES OF THE FULL LENGTH OF CONCRETE ENCASED DUCT STRUCTURE.
 - E. DUCTS AND TRENCHES MUST BE INSPECTED BY HYDRO OTTAWA BEFORE ANY CONCRETE IS POURED.
 - F. CONTRACTOR MUST ENSURE THAT ALL DUCTS ARE CLEANED, RODDED AND THAT A 8mm [3/8"] POLYPROPYLENE ROPE IS LEFT IN EACH DUCT.
 - G. ALL BACKFILL MATERIAL MUST BE APPROVED BY HYDRO OTTAWA INSPECTOR; FOR ACCEPTABLE BACKFILL MATERIAL, SEE HYDRO OTTAWA SPECIFICATION DOCUMENT GCS0005 SECTION 6.1.5.
 - H. STEEL PLATES ARE TO BE USED IF THE COVER OVER THE DUCT BANK IS LESS THAN 450mm. THE PLATES ARE TO BE 6.5mm [1/4"] IN THICKNESS AND THE WIDTH OF THE DUCT BANK BEING COVERED. ANY DEVIATION FROM THE STANDARD COVER OF 760mm MUST BE APPROVED BY THE HYDRO OTTAWA INSPECTOR. IF COVER IS LESS THAN 300mm, A TECHNICAL DEVIATION IS REQUIRED.
 - I. BELL ENDS ARE TO BE USED WHEN TERMINATING DUCTS IN STRUCTURES.

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KEY PLAN

PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
 DUCT BANK DETAILS

SHEET NUMBER

E1.14

PLAN NO.: xxx

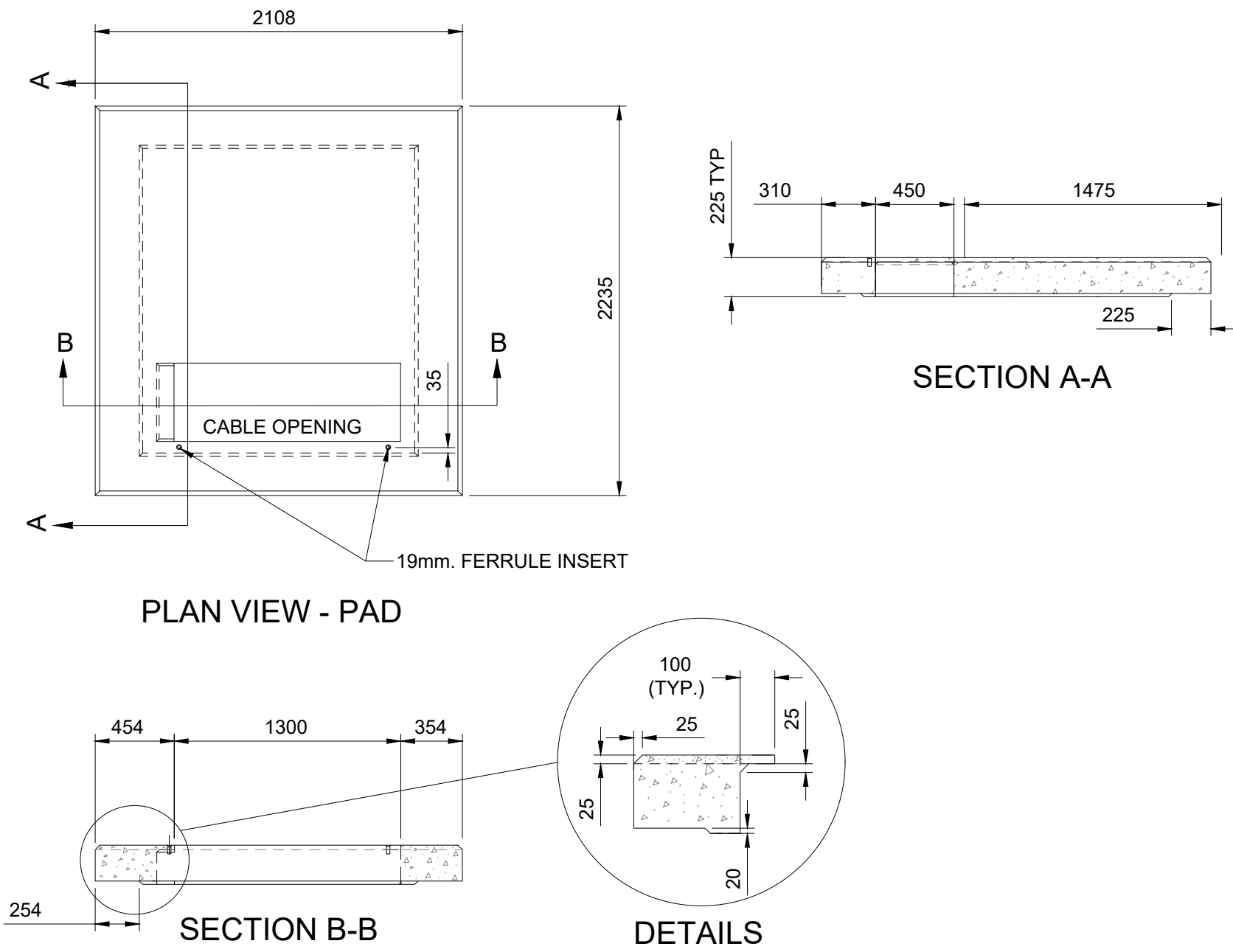
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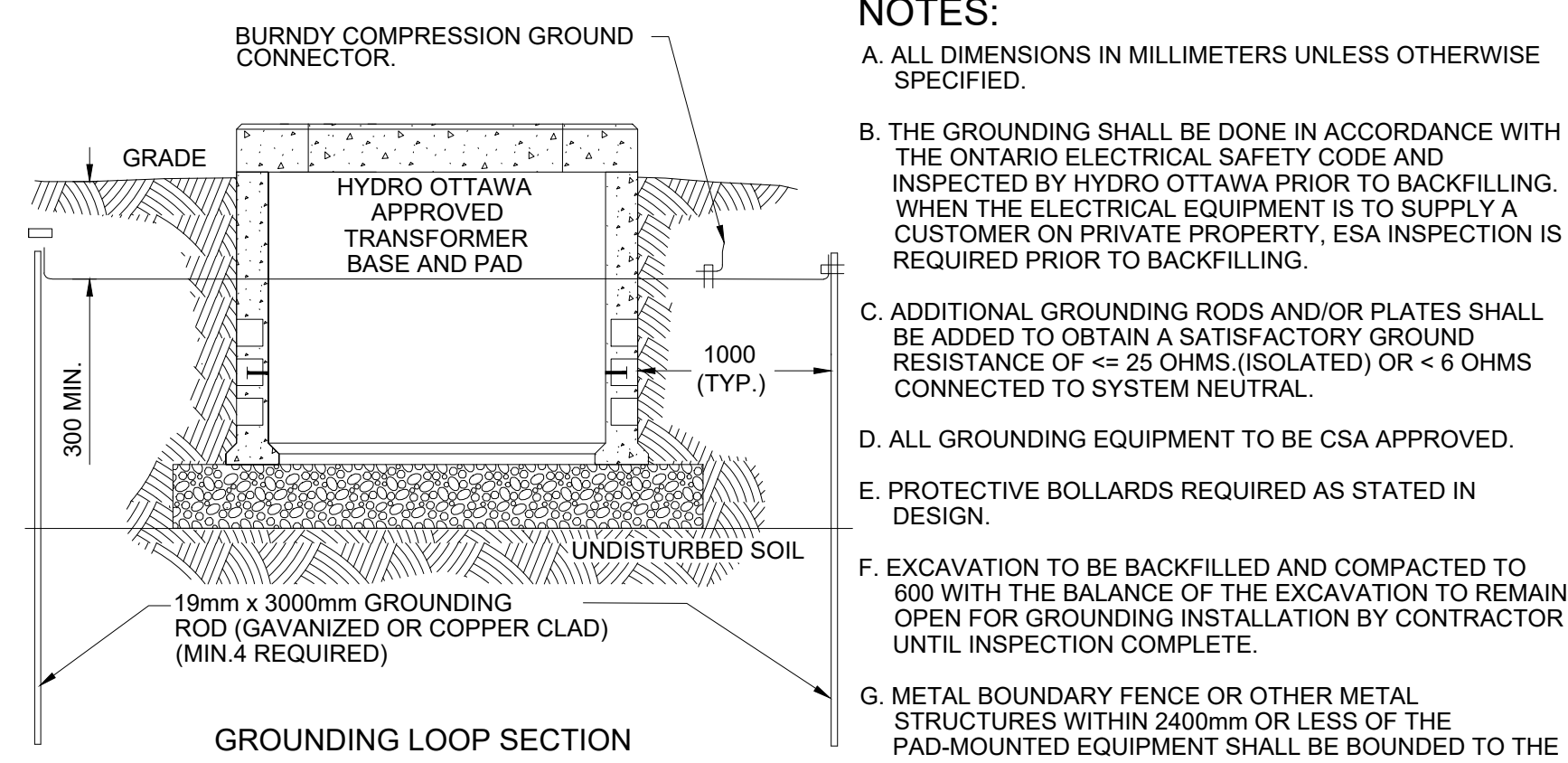
SPECIFIED LIVE LOADING REQUIREMENTS	
DISTRIBUTED LATERAL LOAD ①	25 kN/m ²
TOP SLAB UNIFORMLY DISTRIBUTED LOAD ②	60 kN/m ²
TOP SLAB POINT LOAD ③	70 kN

① BASED ON LATERAL LOADS FROM WATER TABLE AT SURFACE, SOIL AND SURCHARGE FROM WHEEL LOAD.
② BASED ON THE WEIGHT OF A 2500kVA TRANSFORMER OF 73.87kN (7530kg).
③ BASED ON WHEEL LOAD OF CL-625 ONTARIO TRUCK FROM CAN/CSA S6-06 LATEST EDITION.

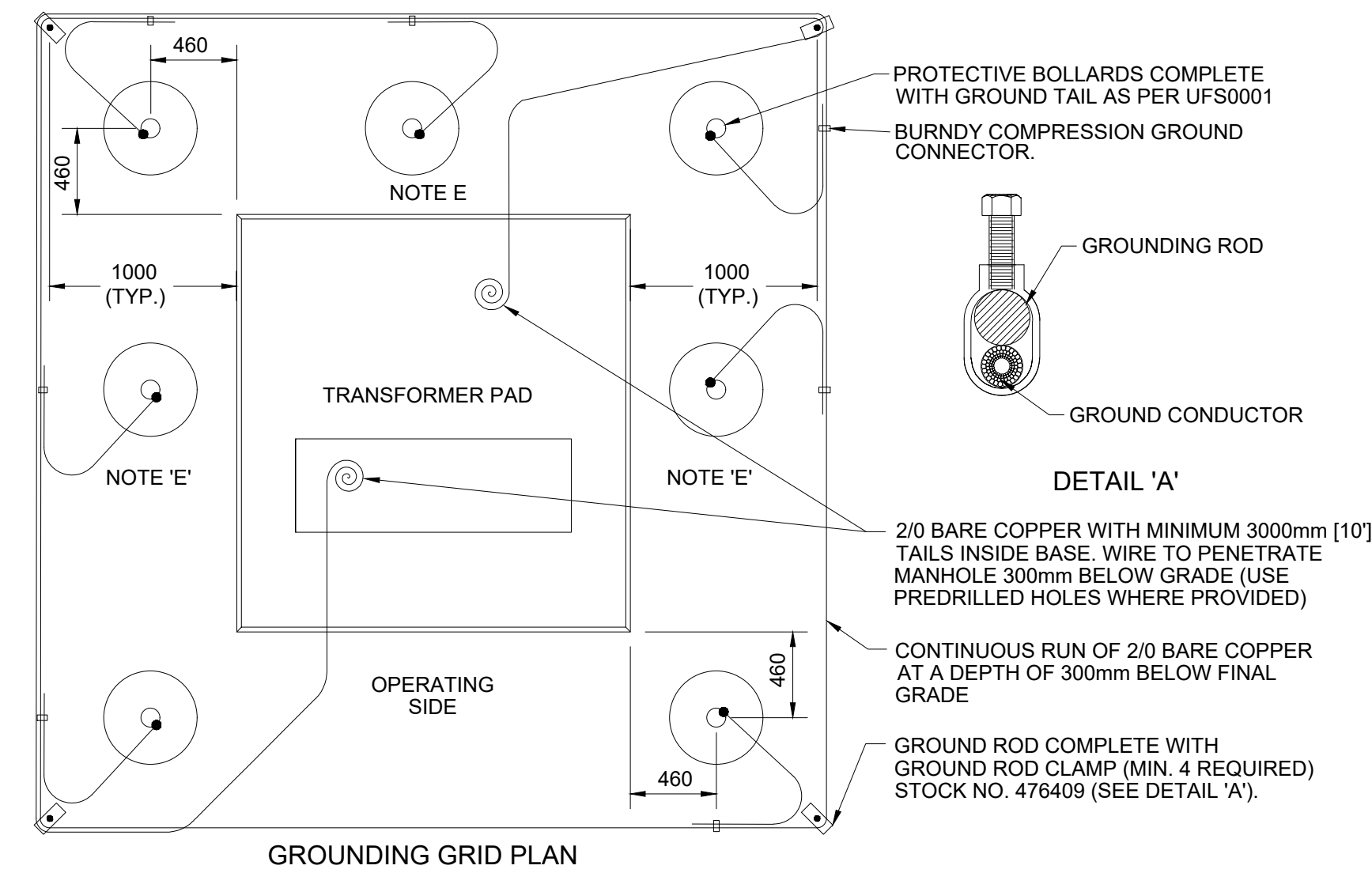
- NOTES:**
- A. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE INDICATED.
 - B. CONCRETE - 35 MPa, AND SHALL MEET REQUIREMENTS OF CSA A23.1 LATEST EDITION FOR CONCRETE EXPOSED TO DE-ICING CHEMICALS. AIR CONTENT 5-8%, C1-CLASS OF EXPOSURE.
 - C. REINFORCING STEEL - 400MPa, MINIMUM 40mm COVER.
 - D. PAD SHALL BE PROVIDED WITH SWIFT LIFT SYSTEM TO ACCOMMODATE INSTALLATION AND REMOVAL.
 - E. PAD DESIGNED TO FIT UCS0025 SWITCHING MANHOLE BASE.



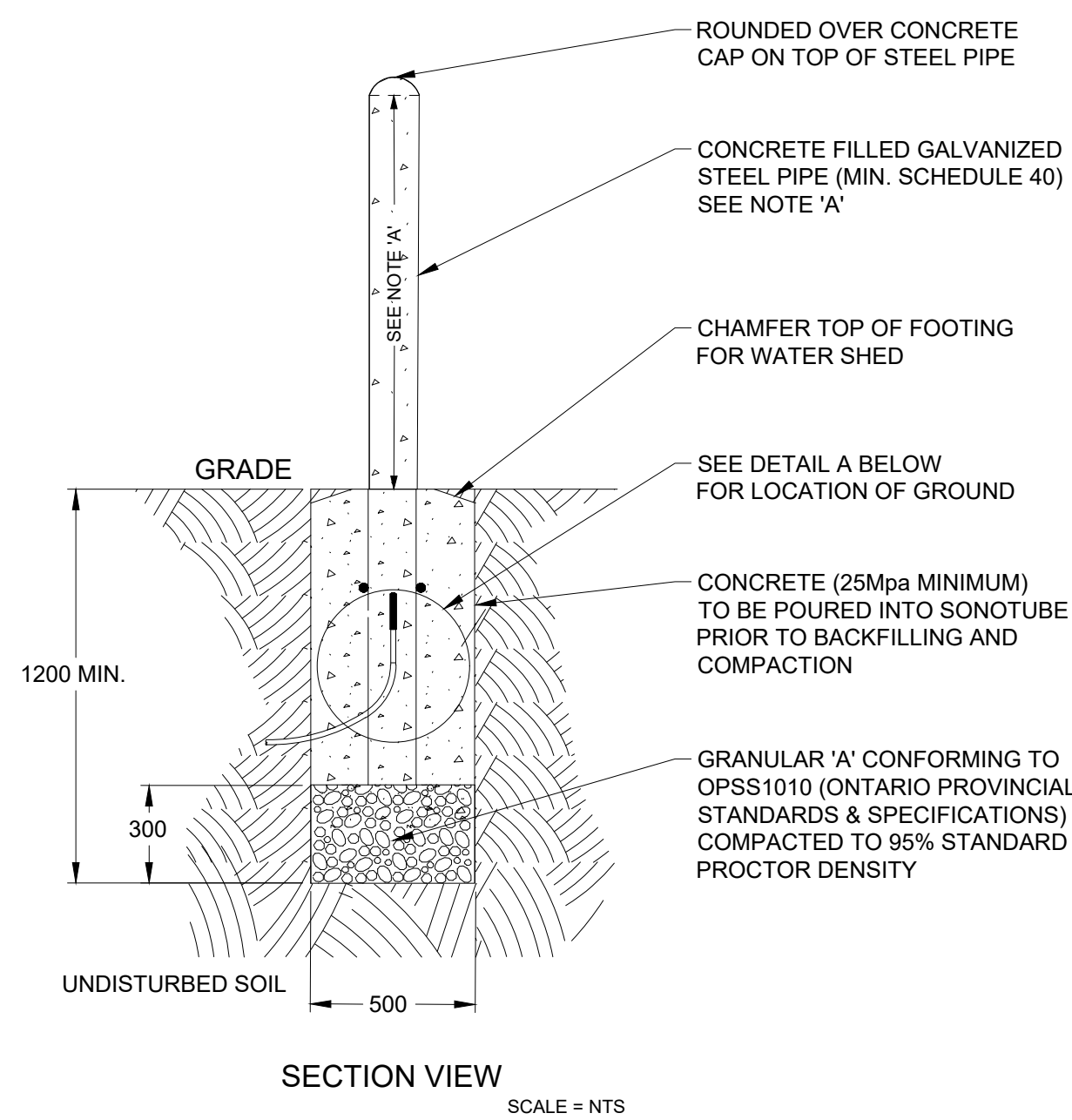
1 TRANSFORMER PAD ON 612 EQUIPMENT MAINTENANCE HOLE BASE 3 PHASE
HYDRO OTTAWA - UCS0035 N.T.S.



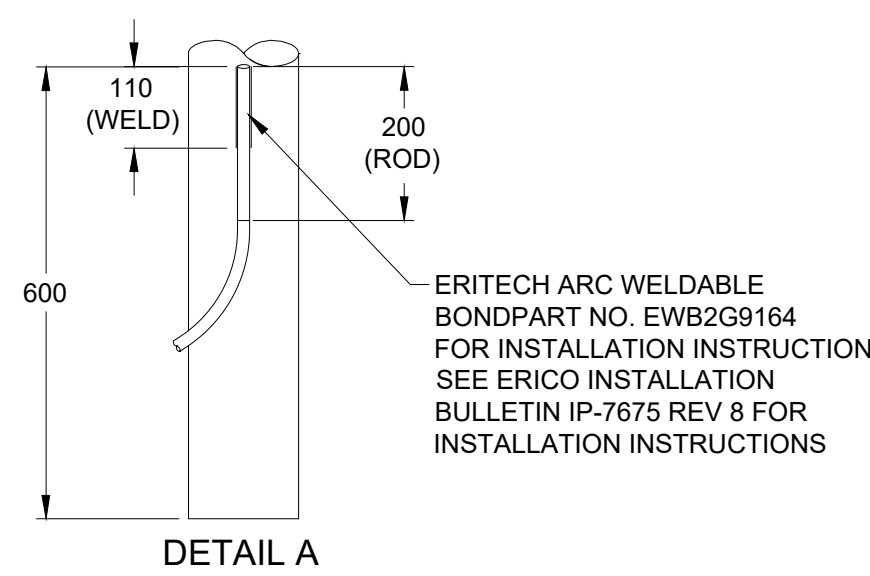
- NOTES:**
- A. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - B. THE GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE AND INSPECTED BY HYDRO OTTAWA PRIOR TO BACKFILLING. WHEN THE ELECTRICAL EQUIPMENT IS TO SUPPLY A CUSTOMER ON PRIVATE PROPERTY, ESA INSPECTION IS REQUIRED PRIOR TO BACKFILLING.
 - C. ADDITIONAL GROUNDING RODS AND/OR PLATES SHALL BE ADDED TO OBTAIN A SATISFACTORY GROUND RESISTANCE OF <= 25 OHMS (ISOLATED) OR < 6 OHMS CONNECTED TO SYSTEM NEUTRAL.
 - D. ALL GROUNDING EQUIPMENT TO BE CSA APPROVED.
 - E. PROTECTIVE BOLLARDS REQUIRED AS STATED IN DESIGN.
 - F. EXCAVATION TO BE BACKFILLED AND COMPACTED TO 600 WITH THE BALANCE OF THE EXCAVATION TO REMAIN OPEN FOR GROUNDING INSTALLATION BY CONTRACTOR UNTIL INSPECTION COMPLETE.
 - G. METAL BOUNDARY FENCE OR OTHER METAL STRUCTURES WITHIN 2400mm OR LESS OF THE PAD-MOUNTED EQUIPMENT SHALL BE BOUNDED TO THE GROUND LOOP WITH A CONDUCTOR SIZE APPROPRIATE FOR THE AVAILABLE FAULT CURRENT (MIN. 2/0 CU) AND A SEPARATE CONNECTOR APPROVED BY HYDRO OTTAWA.



2 GROUNDING TRANSFORMER
HYDRO OTTAWA - UGS0002 N.T.S.



- NOTES:**
- A. PROTECTIVE BOLLARD PIPE DIMENSIONS:
 - i. FOR SINGLE PHASE TRANSFORMERS IN:
 - LOW IMPACT AREAS - HEIGHT 900mm, DIA 100mm.
 - HIGH IMPACT AREAS - HEIGHT 1200mm, DIA 150mm (AT HYDRO OTTAWA'S DISCRETION).
 - ii. FOR THREE PHASE TRANSFORMERS/SWITCHES IN ALL AREAS - HEIGHT 1200mm, DIA 150mm.
 - B. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE INDICATED.



3 BOLLARDS PROTECTIVE CONSTRUCTION DETAIL
HYDRO OTTAWA - UFS0001 N.T.S.

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60648725

ELECTRICAL SITE PLAN
CONSTRUCTION DETAIL

E1.15

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