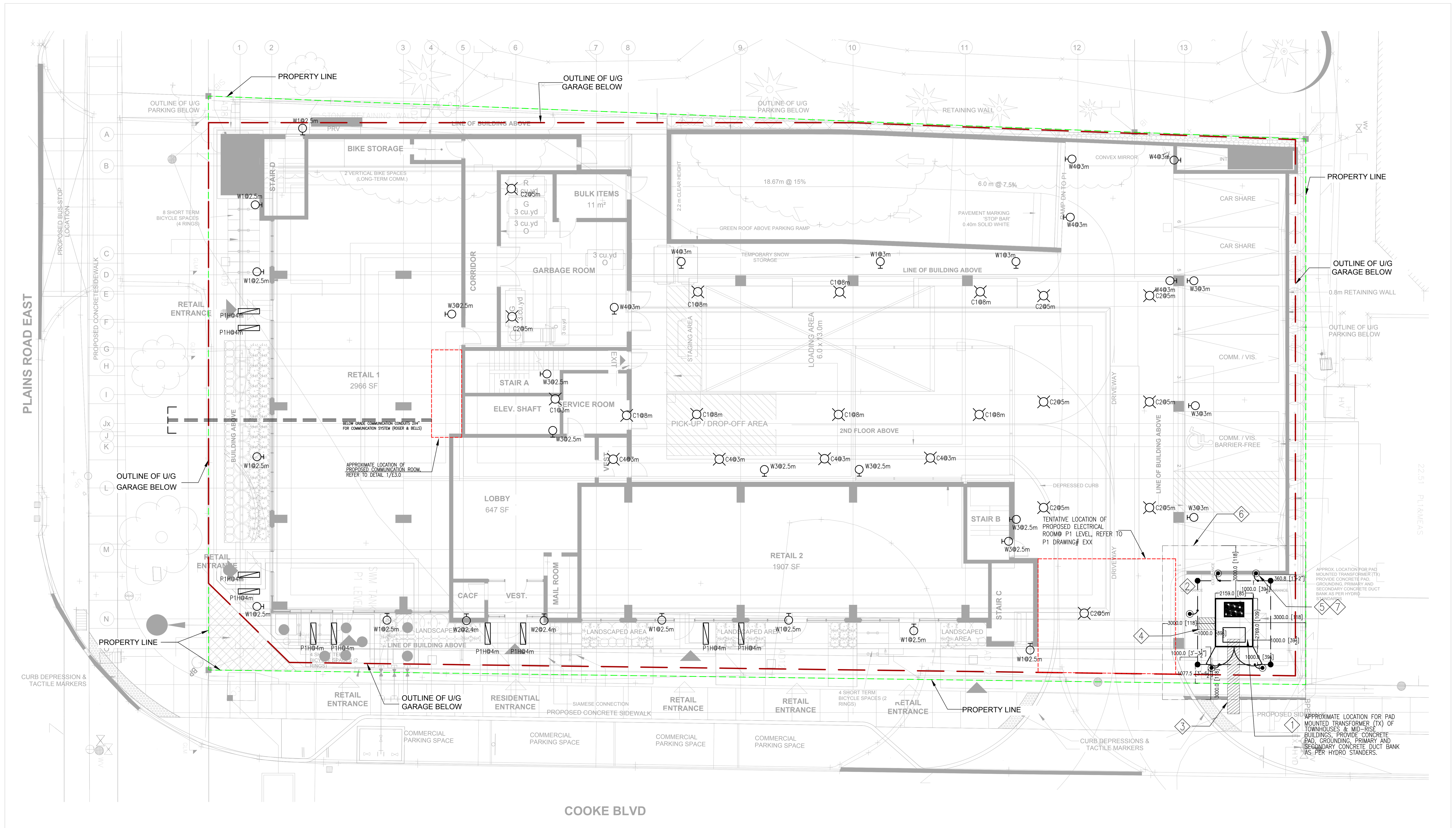
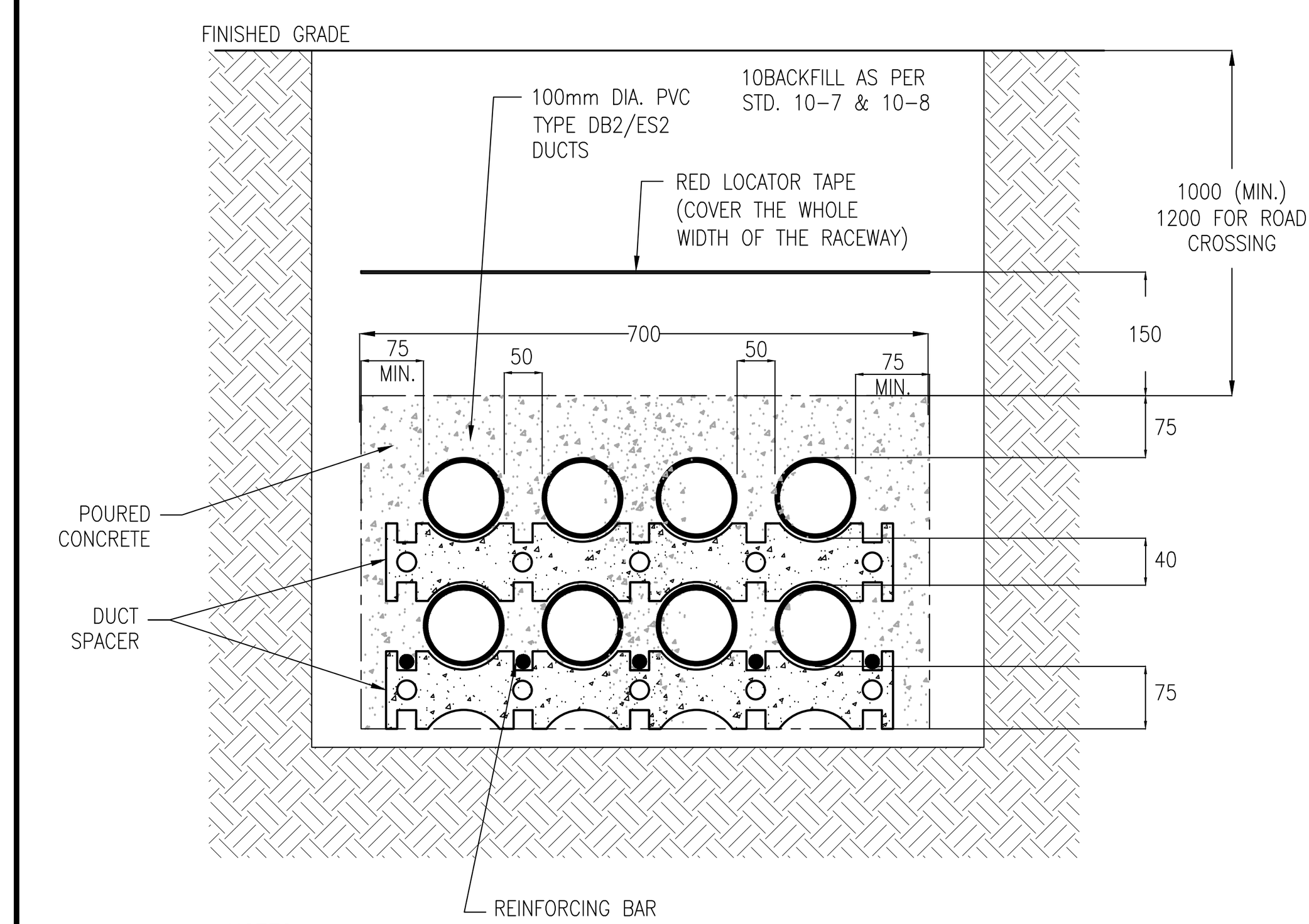


DRAWING NOTES:

1. OUTDOOR PAD-MOUNTED TRANSFORMER (347/600V-3ø-4W SECONDARY) BY HYDRO. CONTRACTOR TO PROVIDE THE PAD, DUCTS AND ALL REQUIRED GROUNDING AS PER HYDRO STANDARDS.
2. OUTLINE OF GROUNDING GRID C/W FOUR (4) 3/4" X 10' RODS CONNECTED BY #2/0 BARE COPPER GROUND LOOP.
3. UNDER GROUND CONCRETE ENCLOSED HYDRO PRIMARY DUCT BANK. COORDINATE WITH ARCHITECT AND STRUCTURAL ENGINEER FOR ROUTING. EXACT TERMINATION POINT TO BE COORDINATED ON SITE TO SUIT UTILITY REQUIREMENT. ALL DUCT ROUTING SHALL BE COORDINATED WITH STRUCTURAL ENGINEER. REFER TO DETAILS "1/E1.1".
4. SECONDARY UNDER GROUND DUCT BANK SEE DETAIL 2/E1.1
5. CONCRETE FILLED, STEEL POST GUARD AS PER HYDRO STANDARDS. EXACT QUANTITY AND LOCATIONS TO BE DETERMINED BY THE HYDRO FIELD INSPECTOR.
6. CLEARANCE ZONE AREA REQUIRED AS PER HYDRO STANDARD 31-4015. NO PLANTS OR SHRUBS IN THIS AREA.
7. ALL BOLLARDS SHALL BE GROUNDED AS PER HYDRO STANDARD 18-5000.
8. UNDERGROUND DUCTS FOR TELEPHONE AND CABLE (2-100mm PVC) TO TEL./CABLE ROOM IN THE UNDERGROUND PARKING P1. REFER TO DETAIL 4/E1.1 TERMINATE AT INTERSECTION POINT WITH LOCAL SERVICES.
9. TELEPHONE AND CABLE 2x100mm PVC CONDUITS FIXED TO PARKING SLAB CEILING 5/E1.1
10. FINAL NUMBER AND LOCATIONS OF BOLLARDS BY HYDRO.

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	C1	8	Lithonia Lighting	VCPG LED P3 40K T5M MVOLT	VCPG LED WITH P3 - PERFORMANCE PACKAGE, 4000K, T5M OPTIC TYPE	1	6253	0.85	43.37
	C2	10	Lithonia Lighting	VCPG LED P1 40K T5W MVOLT	VCPG LED WITH P1 - PERFORMANCE PACKAGE, 4000K, T5W OPTIC TYPE	1	3826	0.85	26.57
	W1	13	Lithonia Lighting	WDGE2 LED P0 40K 70CRI T1S	WDGE2 LED WITH P0 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 1 SHORT OPTIC	1	789	0.84	6.8946
	W4	6	Lithonia Lighting	WDGE2 LED P0 40K 70CRI T4M	WDGE2 LED WITH P0 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 4 MEDIUM OPTIC	1	804	0.84	6.8946
	C4	4	Luminis Canada Inc.	SN1100C-L1L13	Scena - Ceiling Round 11in	1	1306	0.85	13.6
	W2	2	Luminis Canada Inc.	SY600-L1L15-R30	Syrios Round 6	1	1595	0.85	15.3
	W3	10	Lithonia Lighting	WDGE2 LED P0 40K 70CRI T3M	WDGE2 LED WITH P0 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 3 MEDIUM OPTIC	1	822	0.84	6.8946
	P1H	10	Precision Architectural Lighting, 4830 Timber Creek Drive, Houston, TX 77017, USA	ML3WL65-D-HO-K40-4-X--LOH-X-X-UNV	Catalog Number: ML3WL-D-HO-K40-4-X-LOH-X-X-UNV, extruded aluminum housing, white inner reflector, white plastic enclosure. 144 white LEDs,	1	2683	0.85	28.3

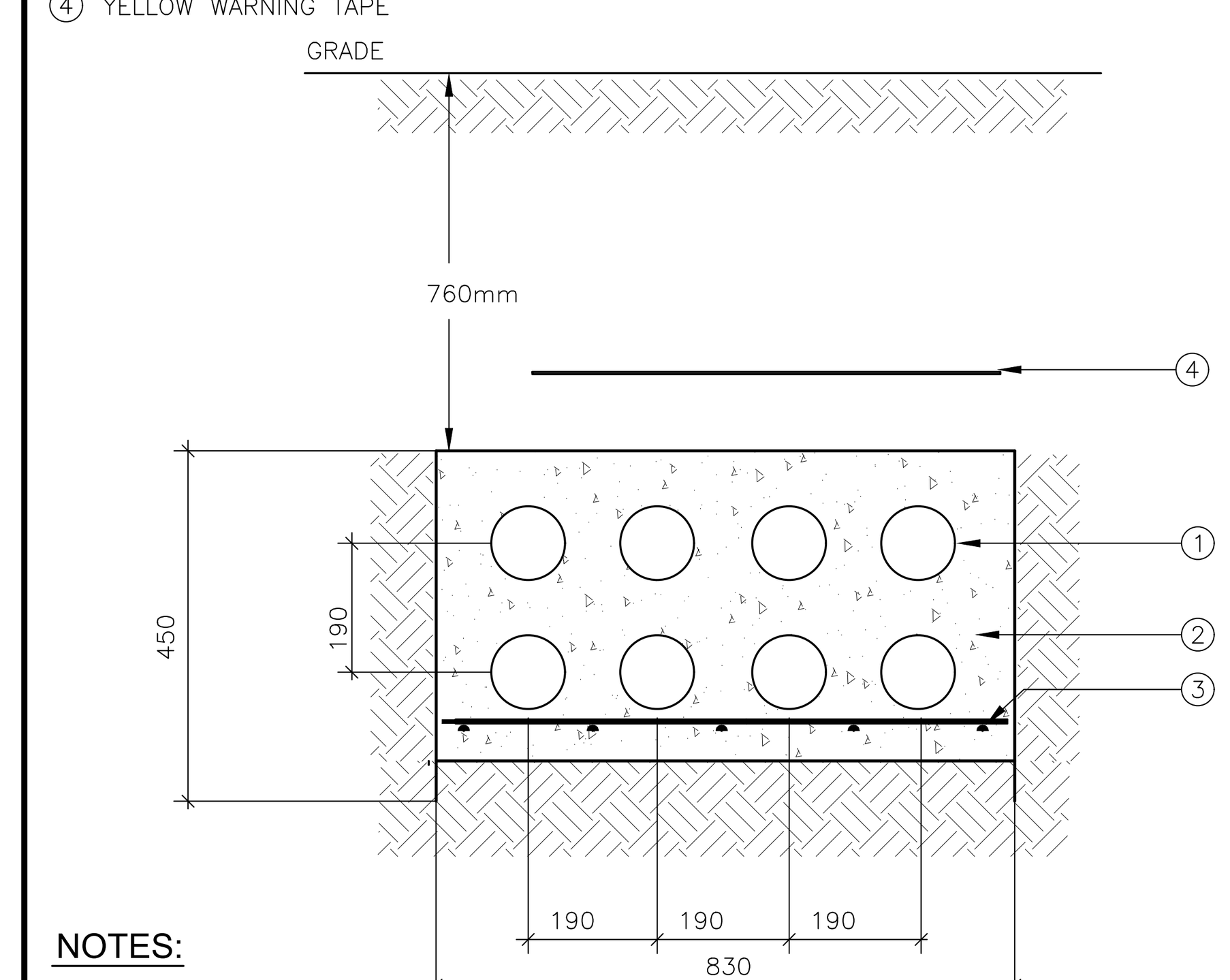


NOTES:

1. ALL DIMENSIONS IN MILLIMETERS.
2. ALL 100MM DIAMETER DUCT SHALL BE CSA APPROVED, TYPE DB2/ES2.
3. S40 ADHESIVE FOR GLUING DUCT'S JOINTS AND BEND MINIMUM 30 MINUTES PRIOR TO POURING CONCRETE. DUCT JOINTS TO BE STAGGERED A MINIMUM OF 150MM AND LOCKED WITH AN APPROVED COUPLING.
4. APPROVED DUCT SPACERS TO BE PLACED 1.5M CENTER TO CENTER UNDER EACH DUCT LAYER.
5. 15 mm NON PRE-STRESSED DEFORMED REINFORCING STEEL BARS POSITIONED AT THE BOTTOM FOR ALL DUCK BANK INSTALLATION ARE REQUIRED FOR THE ENTIRE LENGTH OF CONCRETE STRUCTURE.
6. RED PLASTIC TAPE SHALL BE 152MM WIDE X 0.1MM THICK C/W BLACK BOLD LETTERING "CAUTION BURIED ELECTRIC LINE BELOW".
7. ALL DUCTS AT THE FACE OF THE DUCT BANK, AT PROPERTY OR EASMENT LINE LOCATIONS, SHALL BE TERMINATED WITH BELL ENDS, CAPPED WITH PLASTIC PLUGS AND TO PROTRUDE 150MM FROM CONCRETE ENCASEMENT.
8. CONCRETE TO HAVE A MINIMUM OF 20 MPa WITH 10mm PEA GRAVEL AND SLUMP NOT TO EXCEED 100mm UNDER STANDARD SLUMP TEST.
9. REFER TO THE HYDRO STANDARD DRAWINGS AND SERVICE INSTALLATION REQUIREMENTS.

1/E1.1 UNDERGROUND PRIMARY DUCT BANK DETAIL (AS PER ENERSOURCE STANDARD)
SCALE: N.T.S.

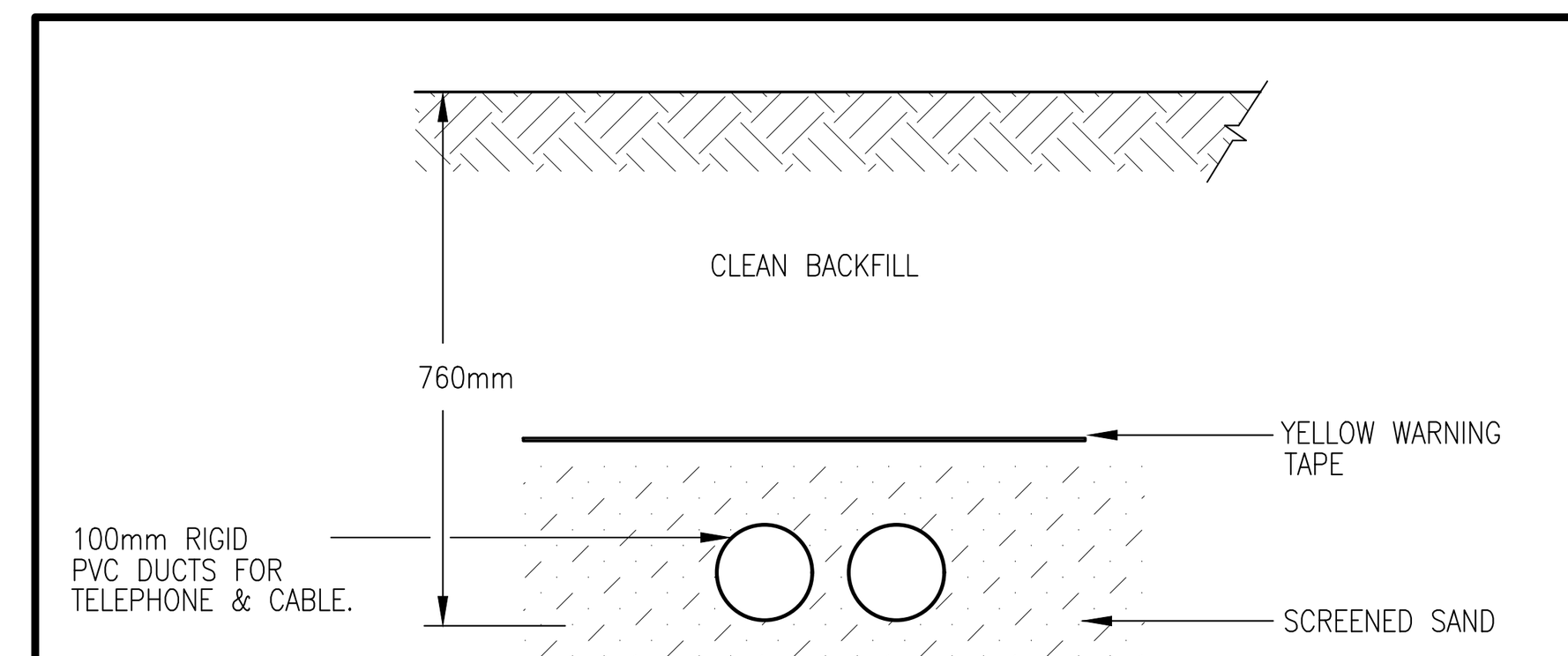
(1) 100mm RIGID PVC DUCT FOR SECONDARY POWER TYPICAL FOR 8.
(2) CONCRETE MIN. COMPRESSIVE STRENGTH 20 MPa.
(3) 16mm REINF. RODS 100mm O.C.
(4) YELLOW WARNING TAPE



NOTES:

1. SPACERS TO BE PLACED UNDER EACH DUCT LAYER. TWO SPACERS PER 3.0m OF CONDUIT SHALL BE USED. SPACERS SHALL BE INSTALLED WITHIN 610mm ON BOTH SIDES OF EACH COUPLING USED.
2. DUCT JOINTS TO BE STAGGERED A MINIMUM OF 200mm, AND LOCKED WITH AN APPROVED COUPLING.

2/E1.1 UNDERGROUND SECONDARY DUCT BANK DETAIL (TWO-LAYER CONFIGURATION)
SCALE: N.T.S.



NOTES:

1. THIS CONTRACTOR TO PROVIDE UNDERGROUND SERVICES TO MEET UTILITY & CODE REQUIREMENTS. PROVIDE ALL NECESSARY APPURTENANCES FOR A SAFE AND COMPLETE INSTALLATION.

3/E1.1 TELEPHONE AND CABLE UNDERGROUND DUCT BANK DETAIL
SCALE: N.T.S.

NOTES:
REFER TO UNDER GROUND PARKING PRIMARY AND SECONDARY DUCT BANK E1.2

CONDITIONS:

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4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
5. THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
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SIGNATURE DATED

NO.	DATE (YY MM DD)	REVISIONS	BY

NO.	DATE (YY MM DD)	SUBMISSIONS	BY
5	25/05/23	ISSUED FOR HYDRO	M.G.
4	23/06/22	ISSUED FOR COORDINATION	M.G.
3	22/07/29	RE-ISSUED FOR SPA	M.G.
2	21/11/11	ISSUED FOR SPA	M.G.
1	21/11/04	ISSUED FOR COORDINATION	M.G.

VENNERI CONSULTING ENGINEERS
1-1170 SHEPPARD AVE. W., TORONTO, ONTARIO M3K 2A3
T: 416-635-7838 venneri@vennerieng.com
F: 416-635-0514 www.vennerieng.com

LICENSED PROFESSIONAL ENGINEER
May.23,2025
M. W. T. GIRGIS
100538982
PROVINCE OF ONTARIO

PROJECT
9-STOREY RESIDENTIAL CONDOMINIUM

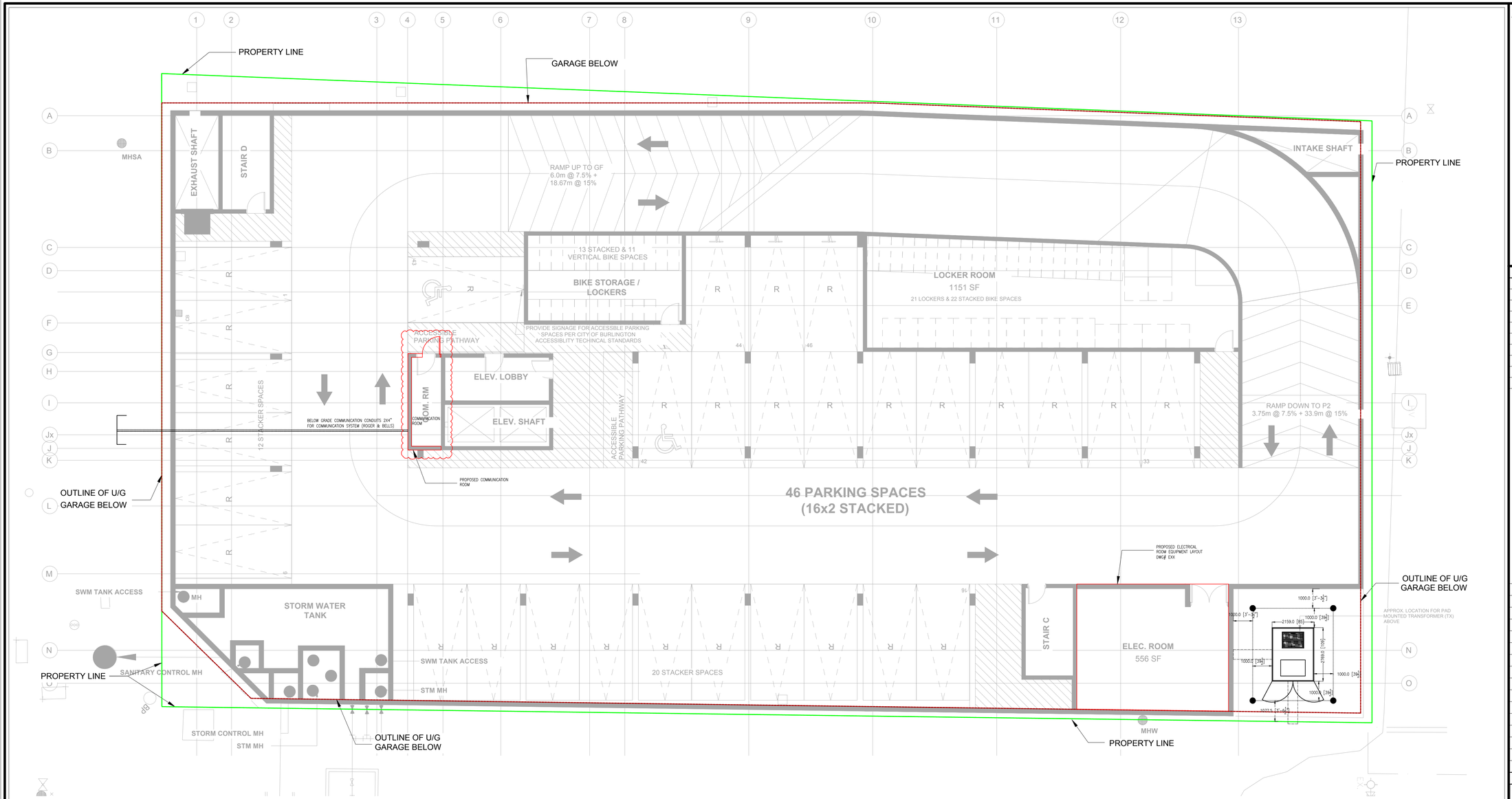
LOCATION
35 PLAINS ROAD EAST, BURLINGTON, ONTARIO

Drawing Title
SITE PLAN: ELECTRICAL

Scale	Drawn	Project	Drawing
1:150	R.S.	21-35	E1.01
Date	Checked	Approved	
OCT. 2021	M.G.	M.G.	

PLOT SCALE: 1=1

DATE PLOTTED:



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1	21/11/04	ISSUED FOR COORDINATION	M.G.
NO.	DATE (YY MM DD)	SUBMISSIONS	BY

VENNERI CONSULTING ENGINEERS
1-1170 SHEPPARD AVE. W., TORONTO, ONTARIO M3K 2A3
T: 416-635-7838 venneri@vennerieng.com
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May.23,2025
M. W. T. GIRGIS
100538982
PROVINCE OF ONTARIO

PROJECT

9-STOREY RESIDENTIAL CONDOMINIUM

LOCATION
35 PLAINS ROAD EAST, BURLINGTON, ONTARIO

Drawing Title
OVERALL P1 PARKING LEVEL (ELECTRICAL ROOM) LAYOUT : ELECTRICAL

Scale	Drawn	Project	Drawing
1:100	R.S.	21-35	E3.0
Date	Checked	Approved	
OCT. 2021	M.G.	M.G.	

PLOT SCALE: 1=1

DATE PLOTTED: