10 WATSON ROAD WAREHOUSE SITE DEVELOPMENT

DRAWING TITLE

GENERAL

SURVEY PLAN LOT 3 REGISTERED PLAN 130

ARCHITECTURAL:

21081601_A100 PROJECT DATA 21081601_A200 3D VIEWS

21081601_A300 BUILDING SITE PLAN 21081601_A400 LEVEL 1 - FLOOR PLAN

21081601_A500 PROPOSED EXTERIOR ELEVATIONS 1 21081601_A501 PROPOSED EXTERIOR ELEVATIONS 2

CIVIL:

21081601_C100 **GENERAL NOTES** 21081601_C101 OVERALL SITE PLAN 21081601_C200 SITE SERVICING PLAN 21081601_C300 SITE GRADING PLAN 21081601_C400 STORM DRAINAGE PLAN 21081601_C401 PRE DEVELOPMENT DRAINAGE PLAN POST DEVELOPMENT DRAINAGE PLAN 21081601_C402 21081601_C500 SANITARY DRAINAGE PLAN

 21081601_C600
 EROSION & SEDIMENTATION PLAN

 21081601_C700
 STANDARD DETAILS 1

 21081601_C701
 STANDARD DETAILS 2

 21081601_C702
 STANDARD DETAILS 3



KEYPLAN

COUNTY



CORPORATION OF
THE COUNTY OF DUFFERIN
W. & M. EDELBROCK CENTRE,
30 CENTRE STREET, ORANGEVILLE,
ON L9W 2X1

TOWN



TOWN OF GRAND VALLEY
5 MAIN ST. N.
GRAND VALLEY, ONTARIO L9W 5S6

OWNER

CEPE INTERNATIONAL (2222183 ONTARIO INC.)
105 WHITWELL DRIVE
BRAMPTON, ONTARIO L6P 1E3

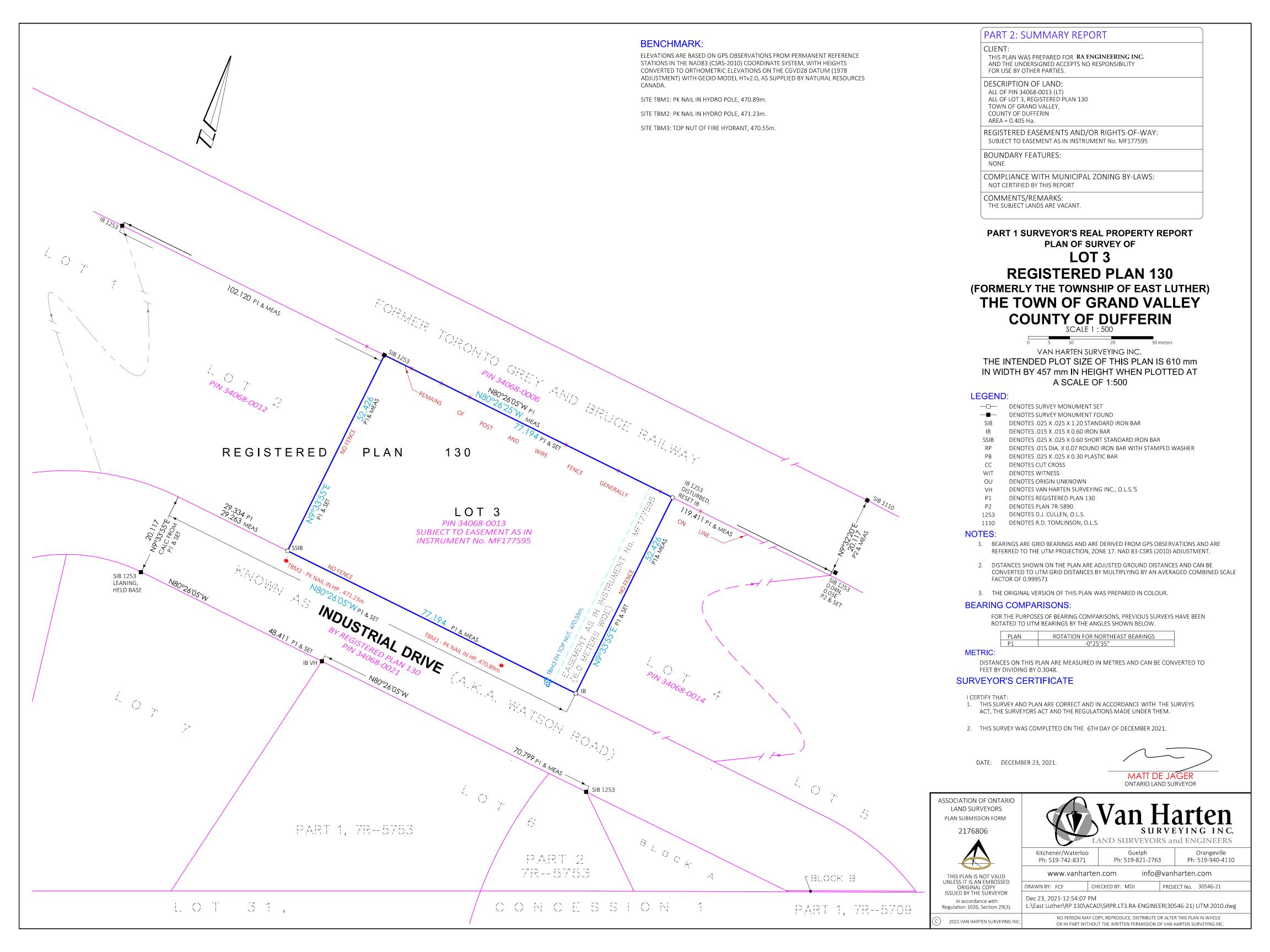
CONSULTING ENGINEER



RA ENGINEERING INC. UNIT 210 - 18705 LESLIE ST., NEWMARKET ONTARIO, L3Y9A4

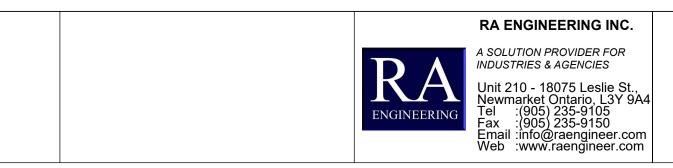
DATE: 31 MAY 2022 REVISION:0

ISSUED FOR SITE PLAN APPROVAL - 1ST SUBMISSION

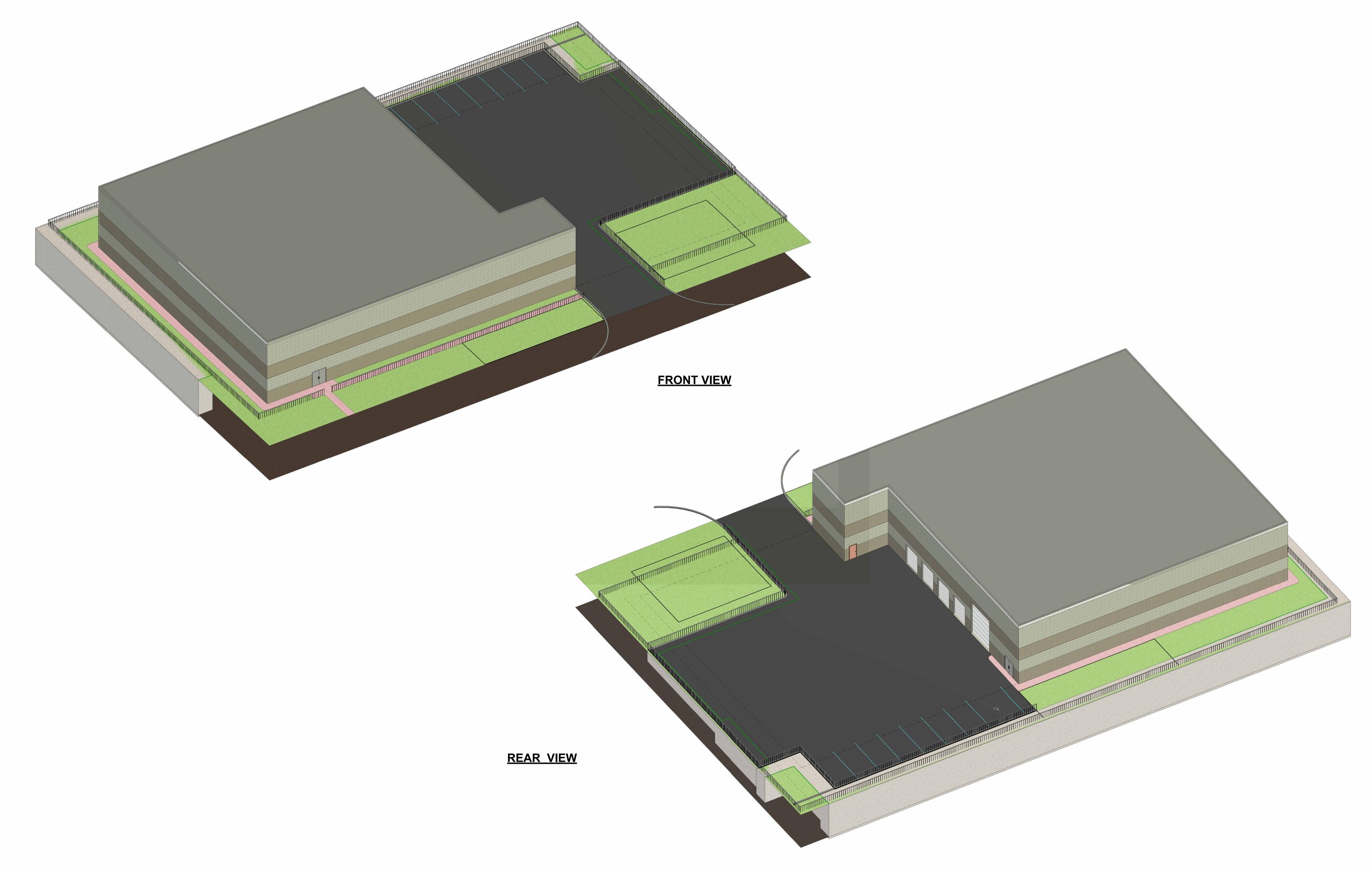


		PROJECT D		_ . _
Item		Proposed	Zoning By-law	Zoning By-law Referrence
Α	Zoning Category: D - Employment and zoned Development	Employment (M1) Zone	Zoning By-law 2018 09-10	
В	Total Lot Area (m²)	0.405ha (1 Acre)	Min 0.25 ha (0.61acres)	Town of Grand Valley Zoning Bylaw 2018 09-10
С	BLDG Area (for OBC Calculation) (m²)	1440 (0.144ha)		Zoning By-law 2018 09-10
	Gross Floor Area (GFA) (m²)	1440		
	Warehouse/Production (Total)	1200		
	Office (Total)	194		
D	Lot Coverage (%)	0.144/0.405*100 =36%	Max of 50%	By-law 2018 09-10 4.9 "M1"
E	Standard Parking Spaces (Req'd/Provided)	7	33	
	Warehouse/Production Spaces - 1.25 Space/Employee		1 parking space + 1 space per 50m ² of gross floor area	Zoning By-law 2018 09-10 3.15.7
	Office Spaces	8	1 parking space + 1 per 30m² of gross floor area	Zoning By-law 2018 09-10 3.15.7
	Accessible Parking Spaces (Req'd/Provided)	1 Type A	1 parking space if total is 12 or less	Ontario Integrated Accessibility Standards O.Reg 191/11 - 80.86
	Total Parking Spaces	8	33	
F	Parking Stall Dimensions	3 m (w) and 6 m (l)	3 m (w) and 6 m (l)	Zoning By-law 2018 09-10 3.15.1
	Accessible Parking Space Dimensions	1 Type A	3.4 m (w) and 6 m with 1.5 m (w) Access Isle	Zoning By-law 2018 09-10 3.15.1
G	Number of Loading Spaces	5	1 space with area between 2301 to 10000 m ²	Zoning By-law 2018 09-10 3.8 Table 2
	Proposed BLDG	1440 m²		
	Drive-in Dock-Level	1 4		
Н	Impermeable Coverage Calculations			
	Proposed Building Area (m²)	1440		
	Landscaping Area (Hard) (m²)	239		
	Paved Area (Asphalt) (m²)	1300		
	Total (m²)	2979		
<u> </u>	Permeable Coverage Calculations			
	Landscaping Pathway Areas Soft (m²)	N/A		
	Sodded and Planted Areas (m²)		10% minimum	
	Untouched Planted Area (m²)			
	Total (m²)			
J	Maximum BLDG Setbacks			
	Front Yard	7.5m	7.5m min	
	Rear Yard	7.5m	7.5m min	
	Side Yard - Interior		4.5m min	
	Side Yard - Exterior	4.5m	7.5m min	
	Frontage	77.16m	30m	
K	Maximum BLDG Height	9.1m	12m max	

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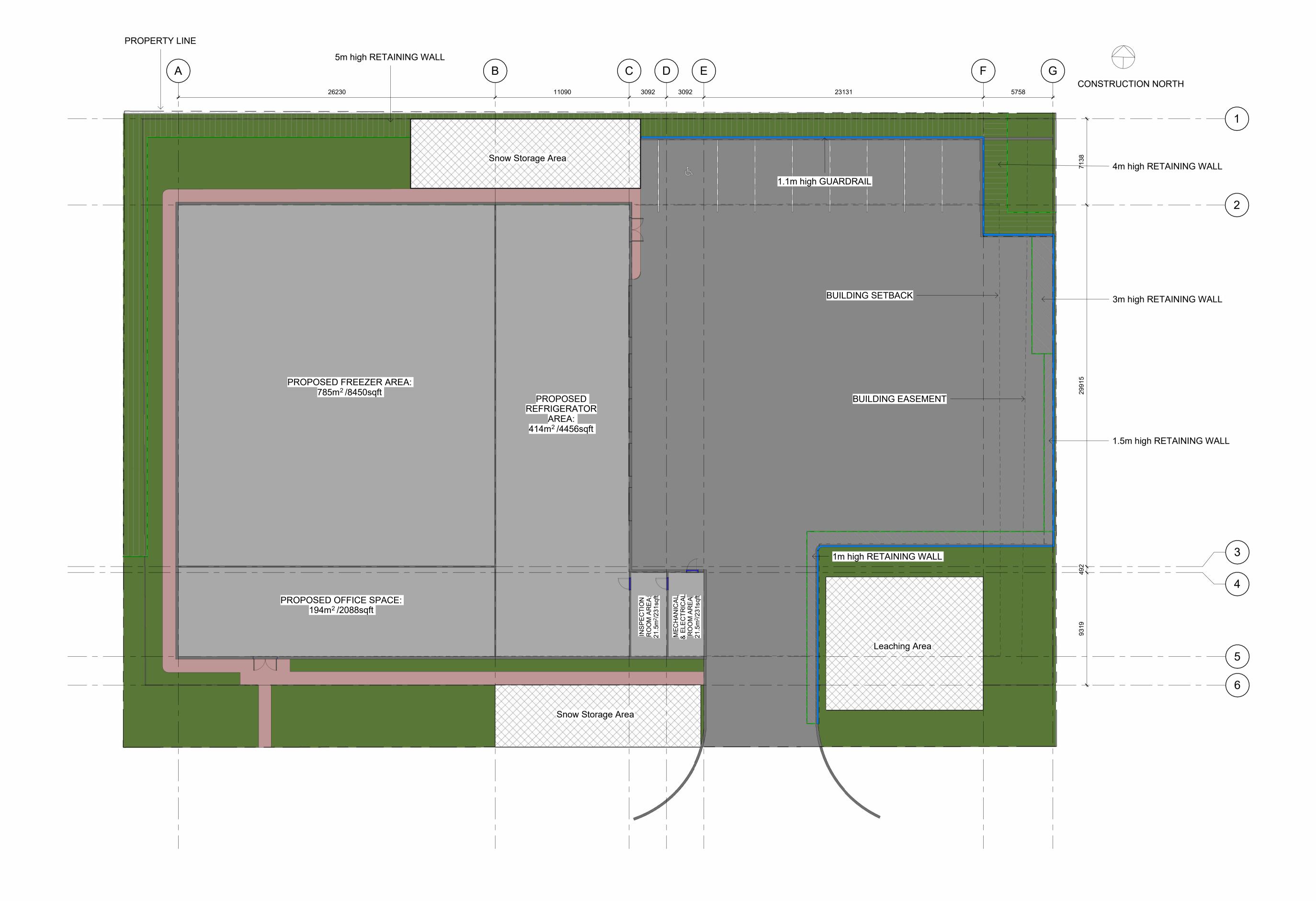
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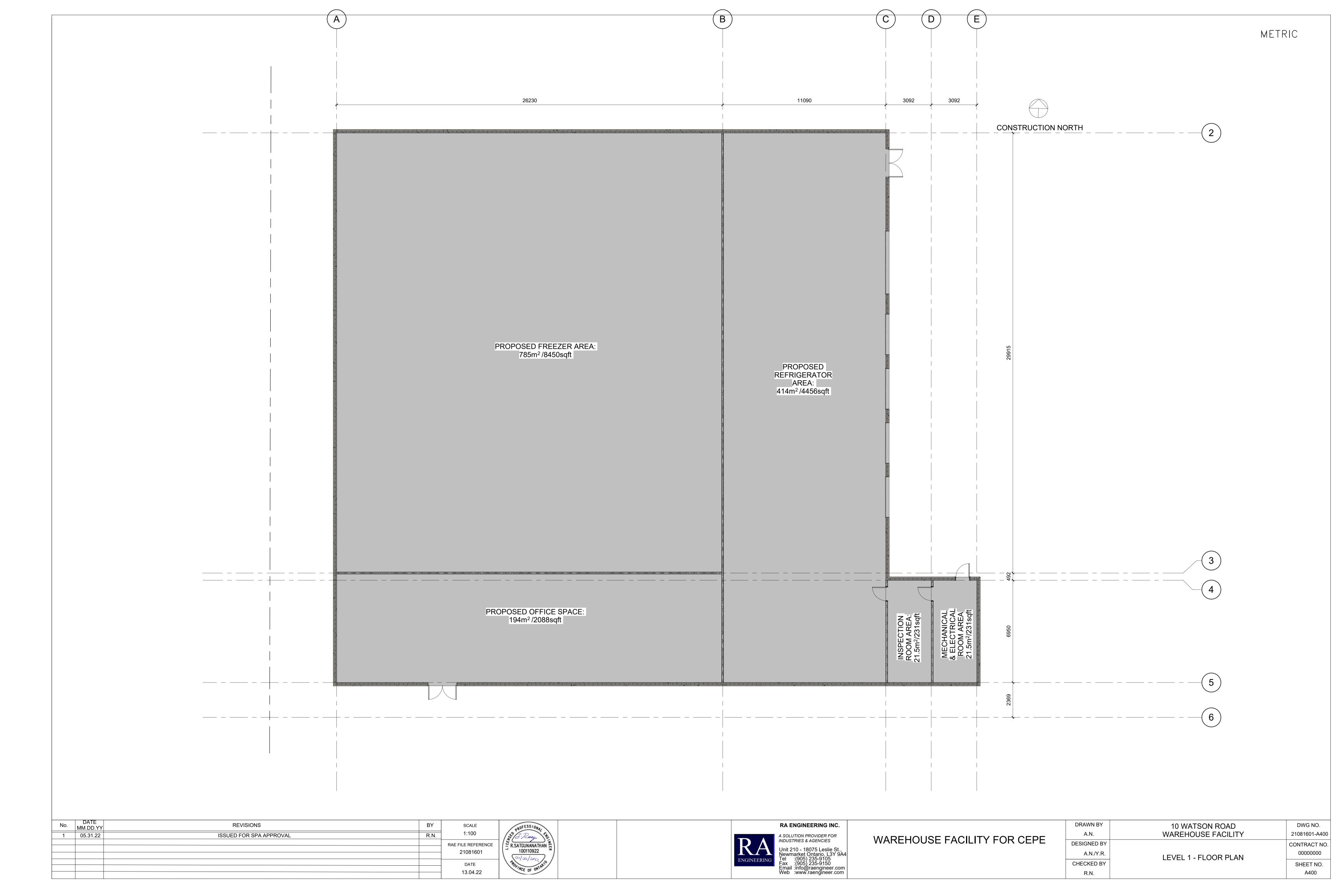


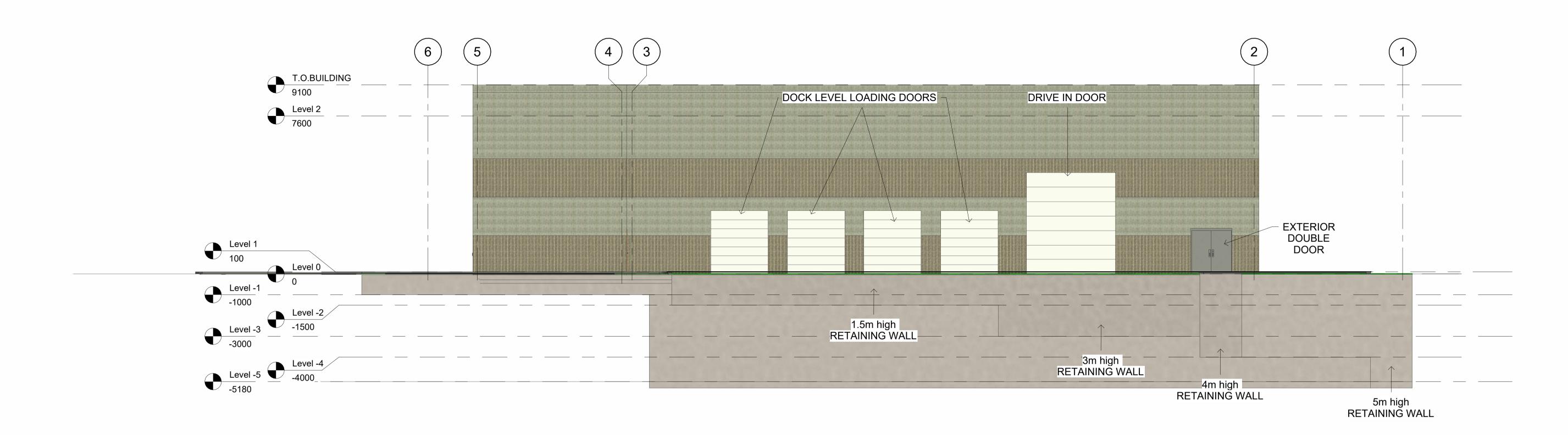
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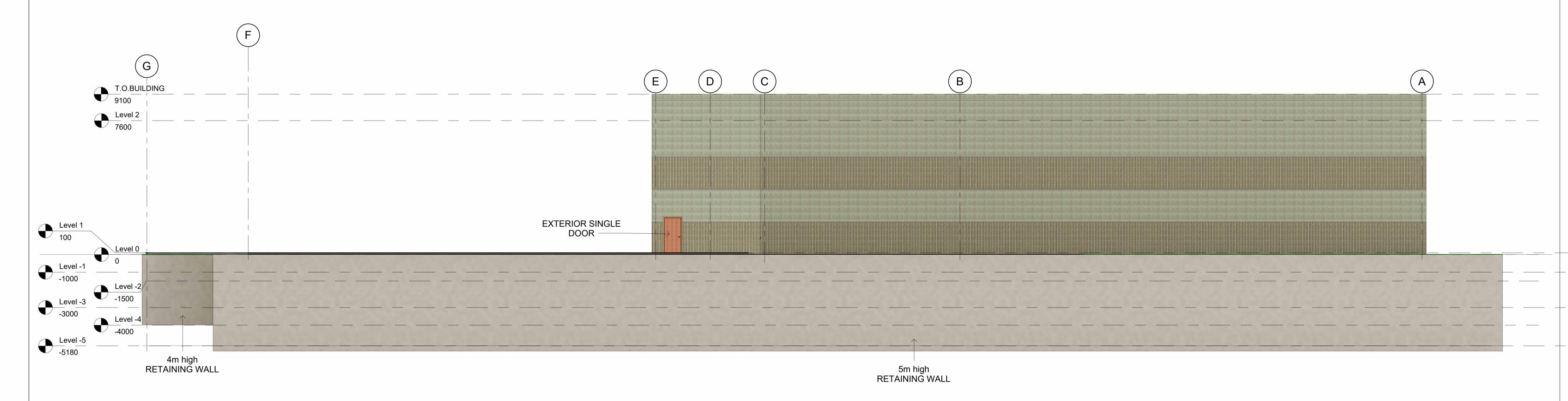
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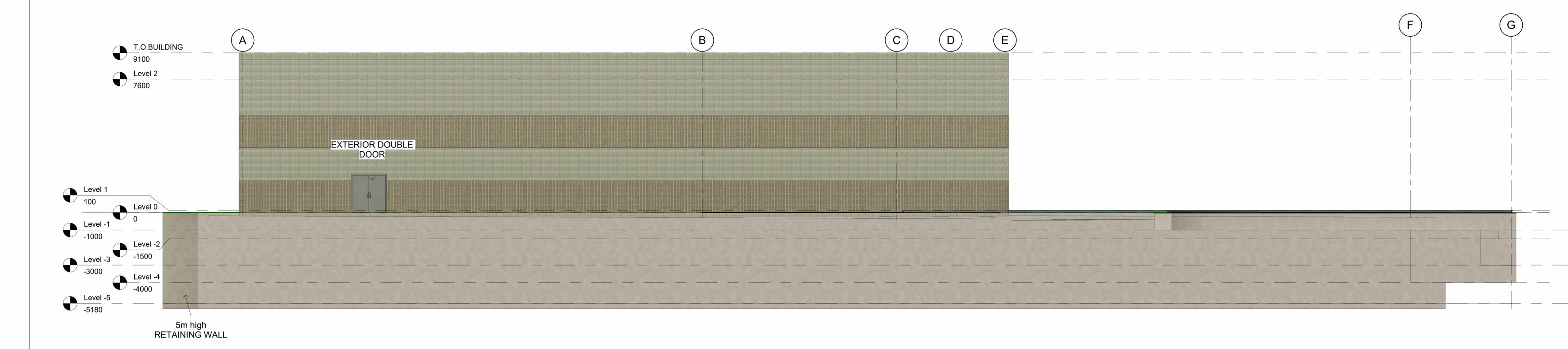


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CONSTRUCTION NOTES

- 1. ALL WORK TO CONFORM WITH MINISTRY OF ENVIRONMENT & GRCA, TOWN OF GRAND VALLEY, AND ONTARIO PROVINCIAL STANDARDS SPECIFICATIONS. WHERE CONFLICT OCCURS, TOWN STANDARDS TO GOVERN.
- 2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
- 3. THE LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH
- UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. 4. ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR 72 HOURS PRIOR TO ANY CONSTRUCTION AND HE SHALL REPORT ANY DISCREPANCIES TO THE CONSULTANT IMMEDIATELY. DETAILS ARE NOT TO BE SCALED
- FROM THE DRAWINGS. ALL DIMENSIONS ARE SHOWN IN S.I. UNITS UNLESS OTHERWISE NOTED. 5. FOR ALL CONSTRUCTION DETAILS NOT SHOWN ON PLANS, REFERENCE SHALL BE MADE TO THE ONTARIO PROVINCIAL STANDARD
- 6. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT ONTARIO TRAFFIC MANUAL BOOK 7: TEMPORARY CONDITIONS FIELD EDITION.
- 7. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE FROM THE APPROVED TEMPORARY CONSTRUCTION ACCESS. UNDER NO CIRCUMSTANCES ARE CONSTRUCTION SUPPLIERS, BUILDERS OR TRADE VEHICLES TO ACCESS THE SITE THROUGH OTHER STREETS. THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ACCESS SIGNS FOR DIRECTING CONTRACTORS
- 8. THE CONTRACTOR SHALL RECTIFY ALL EXISTING DISTURBED AREAS TO THE ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE GRAND VALLEY ENGINEERING DEPARTMENT.
- 9. FENCING, AS THE TOWN MAY DIRECT BE INSTALLED, SHALL BE BLACK, VINYL COATED, CHAIN LINK FENCE, WITH A 1.8 METRE CONSTRUCTED HEIGHT, CONFORMING TO THE APPLICABLE OPS SPECIFICATION.
- 10. EROSION AND SEDIMENT CONTROL MEASURES TO BE IN PLACE PRIOR TO START OF ANY CONSTRUCTION, AND MUST BE MAINTAINED AT ALL TIMES, IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

SANITARY AND STORM SEWERS

- 1. SANITARY SEWER: (MAIN LINE SEWER) PVC TO CONFORM TO ASTM D3034, F679 DR 35, CSA B182.2 CERTIFIED OR LATER VERSION. GRANULAR "A" BEDDING AND COVER IN ACCORDANCE WITH OPSD 802.010.
- 2. STORM SEWER: (MAIN LINE SEWER) PVC (CSA B182.4 CLASS 320) OR PE (CSA B182.6) OR LATEST VERSION MAY BE USED FOR SEWER PIPES 600MM DIAMETER AND SMALLER, UNLESS OTHERWISE NOTED. GRANULAR "A" BEDDING AND COVER IN ACCORDANCE WITH OPSD 802.10.
- REINFORCED CONCRETRE PIPE 675MM AND LARGER TO CONFORM TO CSA A257.2 (MINIMUM CLASS 65-D), UNLESS OTHERWISE
- NON-REINFORCED CONCRETE PIPE 300MM AND SMALLER TO CONFORM TO CSA A257.1-CLASS 3. BEDDING SHALL BE GRANULAR "A" IN ACCORDANCE WITH OPSD 802.030 CLASS 'B'.
- 3. MAINTENANCE HOLES SHALL CONFORM TO OPSD 701.010UNLESS NOTED OTHERWISE.
- 4. MAINTENANCE HOLES FRAMES AND GRATES TO CONFORM TO OPSD 401.030. 5. SEWERS TO HAVE PREFABRICATED 'T' CONNECTION.
- 6. ALL MH & CB FRAMES AND COVERS TO BE SET TO BASE COURSE ASPHALT ELEVATION AND RAISED IN ACCORDANCE WITH TOWN OF GRAND VALLEY AND OPSS SPECIFICATIONS PRIOR TO TOP ASPHALT.
- 7. SANITARY SERVICE CONNECTIONS SHALL BE 130MMØ MINIMUM, P.V.C. (CSA B182.2 CERTIFIED, CONFORM TO ASTM D3034, F679-DR28) OR LATEST VERSION, AND LAID AT A MINIMUM SLOPE OF 2%, AND SHALL BE GREEN IN COLOUR.

(FOR DUPLEX RESIDENTIAL

- 9. CATCH BASINS SHALL CONFORM TO OPSD 705.010 (SINGLE) AND OPSD 705.020 (DOUBLE). FRAMES AND GRATES TO CONFORM TO OPSD 400.010.
- 10. DITCH INLETS CATCH BASINS SHALL CONFORM TO OPSD 705.030 AND 705.040. 11. ALL CATCH BASIN FRAMES AND GRATES TO BE SET SQUARELY ON THE STRUCTURE WITH NO OVERHAND INTO THE ROADWAY OR BOULEVARD.
- CATCH BASIN LEADS TO BE 250MM FOR SINGLE CATCH BASINS AND 300MM FOR DOUBLE CATCH BASINS UNLESS OTHERWISE NOTED AND APPROVED BY THE TOWN OF GRAND VALLEY. 12. CATCH BASIN LEADS MAY BE CONCRETE CSA A257.1 - CLASS 3, EXTRA STRENGTH OR PVC DR 35 MATERIAL
- 13. SANITARY SEWERS THAT DO NOT HAVE SERVICES CONNECTED TO THEM SHALL BE INSTALLED WITH A MINIMUM 2.0 METERS OF

WATER DISTRIBUTION SYSTEM

- 1. FOR PIPE SIZES 100MM TO 300MMØ WATERMAIN SHALL BE PVC CLASS 150 DR 18 AND CONFORM TO AWWA C900-07 AND CSA B137.1-09 WITH BELL AND SPIGOT JOINTS
- 2. A 12 GAUGE, 7 STRAND COPPER TRACER WIRE, WITH AN OUTER PLASTIC COATING, SHALL BE ATTACHED TO EVERY NON-METALLIC WATERMAIN, HYDRANT LEAD AND SERVICE CONNECTION.
- 3. BACKFILL AND EMBEDMENT SHALL BE AS PER OPSD 802.010 WITH GRANULAR "A". BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY THE GEOTECHNICAL CONSULTANT.
- 4. MINIMUM COVER ON WATERMAIN AND SERVICES SHALL BE 1.8M.
- 5. ALL NEW WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE TO TOWN SPECIFICATIONS AND PROVINCIAL GUIDELINES. THE SYSTEM SHALL BE CONSTRUCTED AND TESTED AS PER OPSS 701.
- 6. OPERATION OF IN-SERVICE FIRE HYDRANTS AND VALVES ARE TO BE OPERATED BY THE TOWN OF GRAND VALLEY LICENSED WATER
- 7. ALL HYDRANTS SHALL BE MUELLER CANADA CENTURY HYDRANTS, COMPRESSION TYPE WITH 2 65MM THREADED OUTLETS AND 1 0 1--MM PUMPER NOZZLE WITH A STARZ CONNECTION THAT IS COMPATIBLE WITH THE TOWN'S EQUIPMENT. HYDRANT SHALL BE SELF-DRAINING, COUNTER CLOCKWISE OPENING, AND PAINTED RED. CONNECTION SHALL FACE THE ROADWAY
- 8. ALL FITTINGS, VALVES AND HYDRANT LEADS SHALL HAVE STAINLESS STEEL MECHANICAL RESTRAINTS AND ALL T-BOLTS TO BE STAINLESS STEEL. CONCRETE THRUST BLOCKING AS SOIL CONDITIONS DICTATE
- 9. WATER SERVICE CONNECTIONS 50MM AND SMALLER SHALL BE POLYETHYLENE SERIES 160 MUNICIPAL SERVICE TUBING, COPPER TUBE SIZE TO CSA B137.1-09 (AS PER TOWN STANDARDS). 10. WATERMAINS MUST FOLLOW THE MINISTRY OF THE ENVIRONMENT PROCEDURES THAT GOVERN THE SEPARATION OF SEWERS AND
- WATERMAINS F 6-1. A MINIMUM VERTICAL CLEARANCE OF 0.5M IS REQUIRED BETWEEN PIPES. AT THE SOLE DISCRETION OF THE DIRECTOR OF PUBLIC WORKS. THAT REQUIREMENT MAY BE WAVED IN LIEU OF OTHER MITIGATING MEASURES AS DIRECT 11. ALL VALVES LESS THAT 250MM Ø SHALL BE IN A VALVE BOX. ALL VALVES 300MM AND LARGER SHALL BE IN A CHAMBER. VALVES
- SHALL BE "CANADA VALVE DARLING", OR APPROVED EQUIVALENT AND SHALL INCLUDE RESILIENT SEAR GATES, COUNTER CLOCKWISE OPENING, TO AWWA C 509-09, WITH MECHANICAL JOINT END CONFIGURATIONS. 12. CATHODIC PROTECTION SHALL INCLUDE THE FOLLOWING: SACRIFICIAL NUTS AND WASHERS ON ALL WATERMAIN FITTINGS.
- STAINLESS STEEL ROD AND COTTER PIN TO BE USED ON CURB STOP, AND PROTECTO CAPS/NUTS ON ALL BOLTS, MECHANICAL JOINTS AND FITTINGS.
- 13. HYDRANT MARKERS SHALL BE 'OWL LITE' MODEL H804Y OR EQUIVALENT.
- 14. CORPORATION STOPS SHALL BE BALL TYPE, WITH AWWA THREAD ON THE INLET SIDE AND COPPER TUBE SIZE COMPRESSION FITTING END ON THE OUTLET SIDE.
- 15. CURB STOPS SHALL BE BALL TYPE WITH A COPPER TUBE SIZE COMPRESSION FITTING ON BOTH ENDS.
- 16. CURB BOXES SHALL BE THE SLIDING TYPE, IRON CURB BOXES. THE OPERATING ROD AND PIN SHALL BE STAINLESS STEEL. 17. SERVICES THAT ARE 50MM Ø AND LESS SHALL BE CONNECTED TO THE WATERMAIN USING STAINLESS STEEL, DOUBLE BOLT, SERVICE SADDLES.

ROADS. SIDEWALKS AND WALKWAYS

- 1. NO ALTERATIONS TO EXISTING BOUNDARY ELEVATIONS OR ADJACENT LANDS SHALL BE UNDERTAKEN UNLESS WRITTEN AGREEMENT WITH THE ADJACENT PROPERTY OWNER IS OBTAINED AND SUBMITTED IN A FORMAT ACCEPTABLE TO THE TOWN.
- 2. ALL BOULEVARDS AND REINSTATEMENT OF DISTURBED AREAS TO INCLUDE FINE GRADING. 150MM MINIMUM TOPSOIL AND SOD TO OPSS 570 AND 571 3. ALL BEDDING AND BACKFILL MATERIAL, ROAD SUBGRADE, BOULEVARD AND GENERALLY ALL FILL MATERIAL USED FOR LOT
- GRADING, ETC., SHALL BE COMPACTED AS PER RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. ALL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 300MM LIFTS. 4. SUBGRADE TO BE PROOF ROLLED AND CERTIFIED BY THE SOILS CONSULTANT PRIOR TO THE PLACING OF ANY GRANULAR ROAD
- BASE MATERIALS. 5. ALL GRANULAR AND ASPHALT MATERIALS AND PLACEMENT TO BE IN ACCORDANCE WITH OPSS 314. 1010. AND 310 OR OTHERWISE
- 6. GRANULAR "B" TO BE IN ACCORDANCE WITH TOWN MODIFIED GRANULAR "B" SPECIFICATIONS AS FOLLOWS:

PERCENT PASSING					
SIEVE SIZE mm	MINIMUM	MAXIMUM			
150	100	_			
53	_	100			
26.50	50	90			
4.75	20	55			
1.18	10	20			
0.30	5	22			
0.075	0	8			
IOTE: ALL MATERIAL MUST BE SCREENED					

- 7. CONCRETE SIDEWALK SHALL BE AS PER TOWN STANDARD, OPSD 310.010 AND OPSS 351. SIDEWALK SHALL BE MINIMUM THICKNESS OF 125MM; THE THICKNESS SHALL BE INCREASED TO 175MM WHERE SIDEWALK CROSSES A DRIWEWAY. 28 DAY COMPRESSIVE STRENGTH OF SIDEWALK CONCRETE SHALL BE 30 MPA, WITH MINIMUM 150MM GRANULAR "A" BASE. 8. SIDEWALK RAMPS ARE REQUIRED AT ALL INTERSECTIONS AS PER OPSD 310.033.
- 9. CONCRETE CURB AND GUTTER TO BE AS PER OPSD 600.040 OR AS PER TOWN STANDARD FOR TWO STAGE CONSTRUCTION. 10. SUBDRAINS TO BE 150MM Ø PERFORATED HIGH DENSITY POLYETHYLENE PIPE AND SHALL BE PLACED CONTINUOUSLY ALONG THE FULL LENGTH OF A CURB.
- 11. INTERSECTION CURB RETURN RADIUS TO BE 10.0M UNLESS NOTED OTHERWISE ON THE DRAWINGS 12. WHERE THE SIDEWALK CROSSES A DRIVEWAY, THE BOULEVARD BETWEEN THE CURB AND THE SIDEWALK SHALL BE PAVED WITH A MINIMUM 50 MM LIFT OF ASPHALT ON A MINIMUM 300 MM GRANULAR A BASE. AT DRIVEWAYS, WHERE THERE IS SIDEWALK ON ONE SIDE OF THE STREET ONLY, THE BOULEVARD BETWEEN THE CURB AND THE PROPERTY LINE SHALL BE PAVED WITH A MINIMUM 50
- MM LIFT OF ASPHALT ON A MINIMUM 300 MM GRANULAR A BASE. THE ROAD STRUCTURE SHALL CONSIST OF GRANULAR B, GRANULAR A, BASE COURSE ASPHALT AND SURFACE COURSE ASPHALT. THE MINIMUM DEPTH OF EACH MATERIAL THAT IS TO BE USED SHALL BE AS SET OUT IN THE FOLLOWING TABLE. THE GEOTECHNICAL CONSULTANT MAY RECOMMEND ADDITIONAL DEPTHS OF SOME OR ALL OF THE MATERIALS BASED ON THE SITE SPECIFIC SOIL CONDITIONS THAT ARE ENCOUNTERED

MATERIAL	MINIMUM DEPTH (mm)			
	LOCAL STREETS	COLLECTOR ROADS		
Granular B	450	600		
Granular A	150	150		
Base Asphalt (HL 8)	50	60		
Surface Asphalt (HL 3)	40	50		

GRADING NOTES

- 1. DRIVEWAY GRADES TO BE A MINIMUM OF 2% AND A MAXIMUM OF 6%.
- SWALE GRADES SHALL BE A MINIMUM OF 2% AND SHALL BE DESIGNED USING A GENTLE "U" SHAPE CROSS-SECTION.
- THE SLOPE ON THE MUNICIPAL BOULEVARD BETWEEN THE STREET LINE AND THE CURB SHALL RANGE FROM 2% TO 4%.
- 4. FRONT YARDS SHALL BE GRADED SO THEY DRAIN TO THE STREET.

AS MEASURED TO THE OUTSIDE EDGE OF THE CATCH BASIN.

- 5. THE SLOPE FROM THE FINISHED GRADE AT THE HOUSE TO THE BOTTOM OF THE SIDE YARD SWALE SHALL BE 2% MINIMUM, OR THE ELEVATION OF THE SIDE YARD SWALE SHALL 150 MM LOWER THAN THE FINISHED GRADE AT THE HOUSE, WHICHEVER IS GREATER.
- 6. REAR YARD CATCH BASINS ARE TO BE LOCATED ENTIRELY ON ONE LOT AND SHALL BE LOCATED 1.0 METRE FROM THE LOT LINE(S),
- 7. DRAINAGE SWALES SHALL NOT DISCHARGE ONTO THE TOWN ROAD ALLOWANCE IN SUCH A WAY THAT WATER CAN RUN ACROSS A SIDEWALK AND CREATE AN ICING PROBLEM. IF NECESSARY, CATCH BASINS SHALL BE INSTALLED BEHIND THE SIDEWALK TO CAPTURE THE DRAINAGE BEFORE IT CROSSES THE SIDEWALK.

EROSION AND SEDIMENT CONTROL NOTES

1.0 GENERAL

- 1.1 ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT TOWN OF GRAND VALLEY, COUNTY OF DUFFERIN AND ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
- 1.2 ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH 'THE OCCUPATIONAL HEALTH AND SAFETY ACT'. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE 'CONSTRUCTOR' AS DEFINED IN THE ACT.
- 1.3 THE LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- 1.4 ALL CONSTRUCTION EQUIPMENT TO USE MAIN ACCESS POINT, LOCATED AT MAIN ENTRANCE, AS INDICATED WITHIN THIS
- 1.5 MUD MAT AND CULVERTS TO BE CONSTRUCTED AT LOCATION SHOWN AND PER MUD MAT DETAIL.
- 1.6 NO MAINTENANCE OR REPAIR WORK ON CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN 30m OF AN EXISTING WATER COURSE
- 1.7 ALL SEDIMENT AND EROSION CONTROL FACILITIES AND WORKS ARE TO BE CONSTRUCTED AND IN PLACE TO THE APPROVAL OF THE SITE ENGINEER PRIOR TO ANY GRADING OPERATIONS COMMENCING. TYPICAL WORKS INCLUDE SILT FENCES,
- CONSTRUCTION ACCESS MUD MAT AND ROCK CHECK DAMS. 1.4 CONTRACTOR TO STABILIZE THE SITE AS REQUIRED THROUGHOUT THE CONSTRUCTION SCHEDULE.
- 1.5 TEMPORARY AND PERMANENT DRAINAGE DITCHES ARE TO BE HYDROSEEDED INCLUDING THE PROPOSED DITCHES.
- 1.6 UPON COMPLETION OF EARTHWORKS, THE SITE AND THE DISTURBED AREAS SHALL BE TREATED WITH SEED.

2.0 EROSION CONTROL

A) SILT FENCE

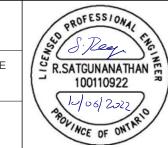
- 2.1 THE GEOTEXTILE MATERIAL MUST BE STRETCHED TIGHT WHEN INSTALLING THE MATERIAL AND THE BOTTOM EDGE BURIED A MINIMUM OF 150 MM WITH COMPACTION OF THE EXCAVATED BACKFILL. DIAGONAL BRACING OF THE POSTS IS RECOMMENDED WHERE DEEP PONDING IS EXPERIENCED OR ANTICIPATED.
- 2.2 ANY FAILURE MUST BE REPAIRED IMMEDIATELY.
- 2.3 SEDIMENT CONTROL FENCE MUST BE INSPECTED REGULARLY, AND AFTER EVERY RAINFALL, TO IDENTIFY FAILED SECTIONS. IF WET CONDITIONS PERSIST, REPAIRS MUST BE UNDERTAKEN TO RESTORE THE INTEGRITY OF THE FENCING
- 2.4 WHEN SEDIMENT ACCUMULATES TO HALF THE HEIGHT OF THE GEOTEXTILE IT SHOULD BE REMOVED AND DISPOSED OF IN A
- 2.5 ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS DETERMINED BY THE SITE ENGINEER.
- 2.6 A SUPPLY OF SEDIMENT CONTROL FENCE SHOULD BE KEPT ON SITE TO PROVIDE FOR QUICK REPAIRS OR THE INSTALLATION OF AN ADDITIONAL FENCE AS REQUIRED.

B) ROCK CHECK DAMS

- 2.7 SEDIMENT MONITORING AND REMOVAL REQUIRED FROM THE BASE OF THE STRUCTURE WHEN ACCUMULATION BECOMES
- 2.8 INSPECTION SHOULD TAKE PLACE WEEKLY AND AFTER EVERY RAINFALL AND SIGNIFICANT SNOWMELT EVENTS TO IDENTIFY ANY
- PROBLEM AREAS. 2.9 ROCK CHECK DAM AND ALL ACCUMULATED SEDIMENT MUST BE REMOVED WITH CARE ONCE THE CONSTRUCTION SITE IS
- STABILIZED AND AS DIRECTED BY THE SITE ENGINEER. 2.10 REPAIR OF THE SEDIMENT TRAP SHOULD TAKE PLACE WITHIN 24 HOURS OF DETERMINING THE DEFICIENCY.

- C) CONSTRUCTION ACCESS MUD MAT 2.11 THE GRANULAR MATERIAL WILL REQUIRE PERIODIC REPLACEMENT AS IT BECOMES CONTAMINATED BY VEHICLE TRAFFIC.
- 2.12 SEDIMENT SHALL BE CLEANED FROM PUBLIC ROADS AT THE END OF EACH DAY.
- 2.13 SEDIMENT SHALL BE REMOVED FROM PUBLIC ROADS BY SHOVELLING OR SWEEPING AND DISPOSED OF PROPERLY IN A
- CONTROLLED SEDIMENT DISPOSAL AREA.
- 2.14 MAT TO REMAIN IN PLACE UNTIL SITE IS STABILIZED OR AS DIRECTED BY SITE ENGINEER.
- 2.15 STORM INLETS BOTH ON AND IN PROXIMITY OF THE SITE SHALL BE PROTECTED WITH INLET CONTROL MEASURES PRIOR TO SITE DEVELOPMENT AND ROAD CLEANING ACTIVITIES.
- 2.16 THE INSTALLER SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE SILTSOXX™ WHEN THEY REACH 1/2 OF THE EXPOSED HEIGHT OF THE SILTSOXX™, OR AS DIRECTED BY THE ENGINEER.
- 2.17 SILTSOXX ™ SHOULD BE INSPECTED WEEKLY AND AFTER ALL RAINFALL AND/OR SNOWMELT EVENTS TO MAKE SURE THEY HOLD THEIR SHAPE AND ARE PRODUCING ADEQUATE FLOW THROUGH. FOR PURPOSES OF LONGER-TERM SEDIMENT CONTROL OBJECTIVES, SILTSOXX™ CAN BE SEEDED AT THE TIME OF INSTALLATION TO CREATE AN ADDITIONAL VEGETATIVE FILTERING
- 2.18 WHEN CONSTRUCTION IS COMPLETED ON SITE, THE SILTSOXX™ MAY BE DISPERSED WITH A LOADER, RAKE, BULLDOZER OR OTHER DEVICE TO BE INCORPORATED IN THE SOIL OR LEFT ON TOP OF THE SOIL FOR FINAL SEEDING TO OCCUR. THE MESH NETTING MATERIAL WILL BE DISPOSED OF IN NORMAL TRASH CONTAINER OR REMOVED BY THE INSTALLER.

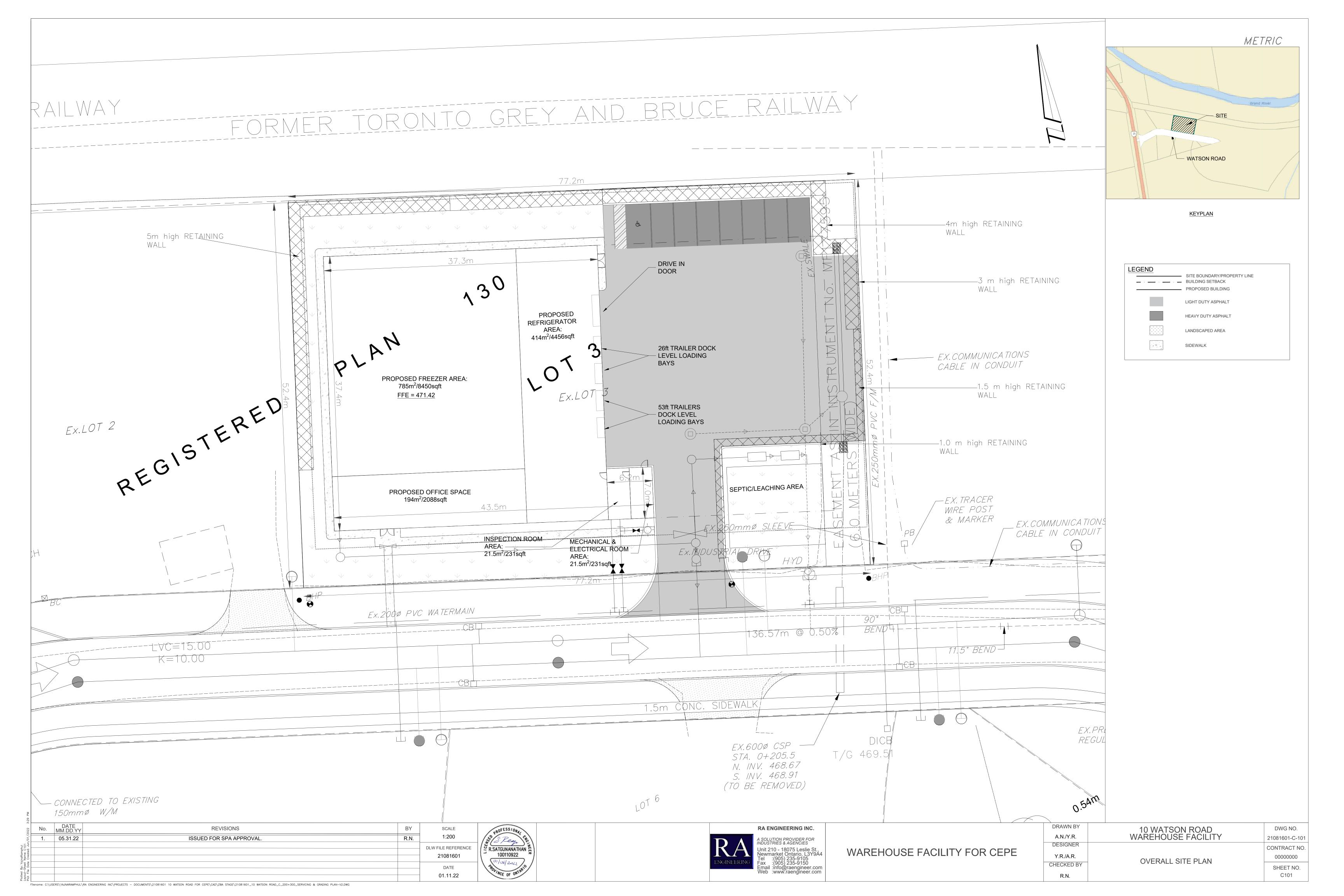
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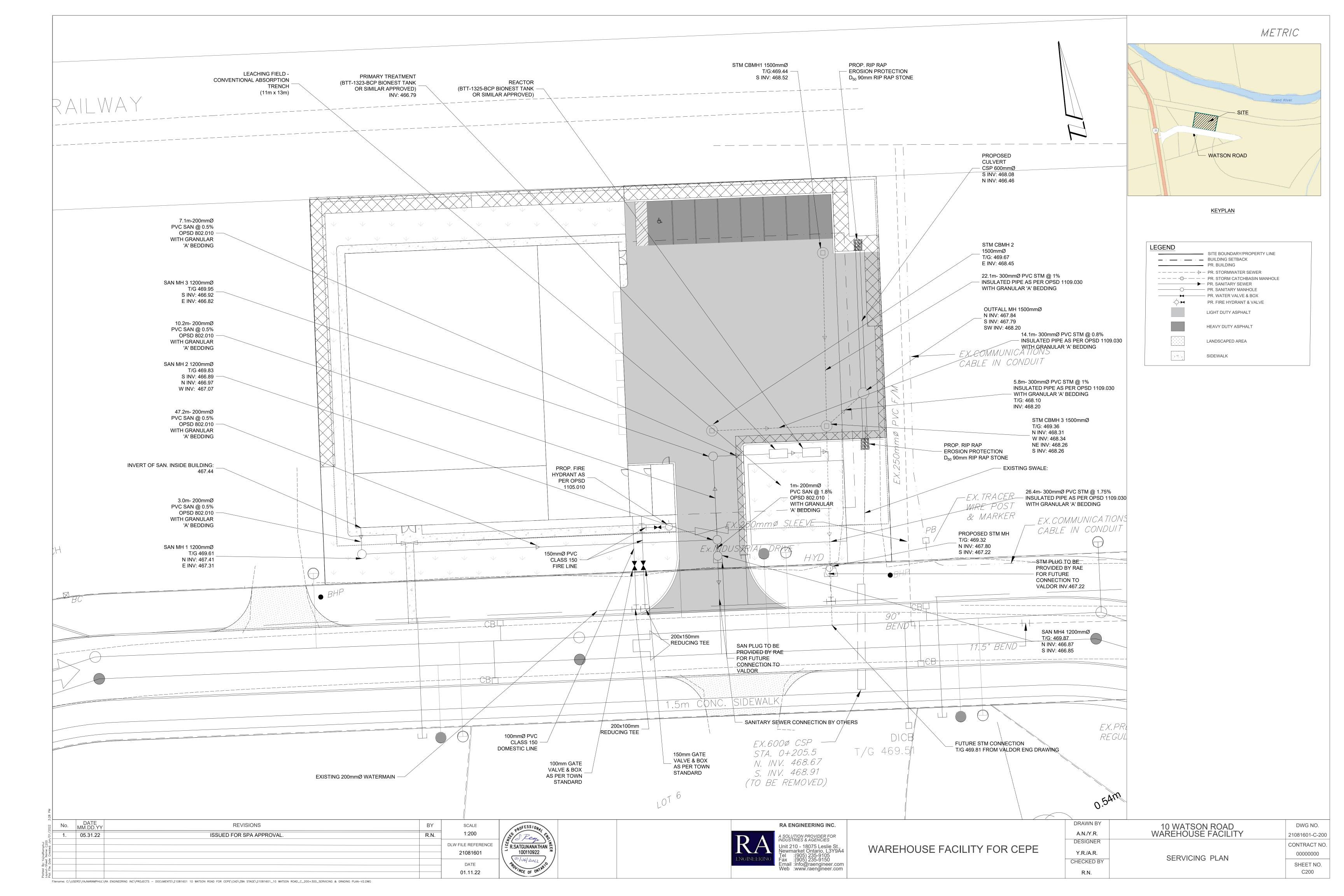


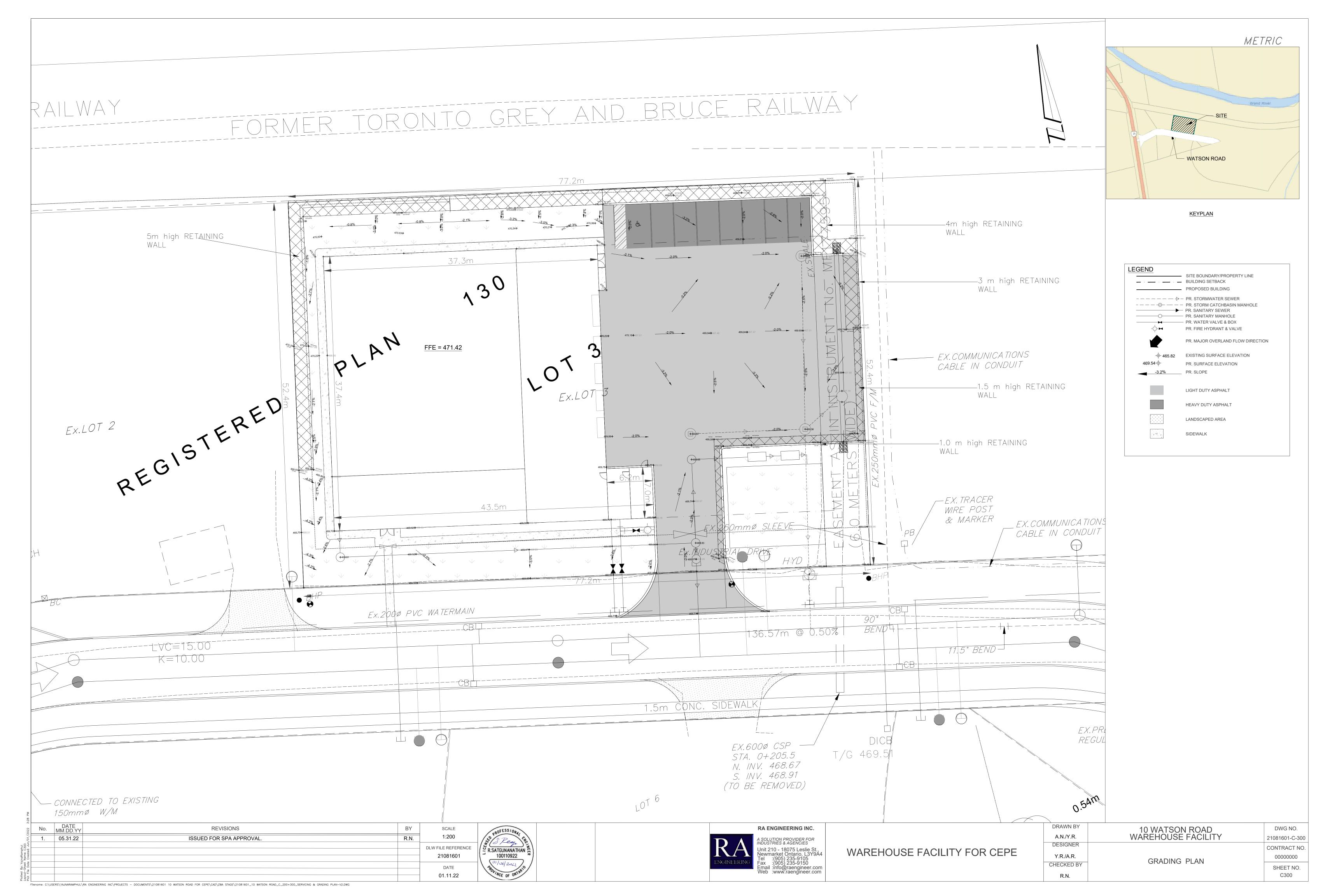


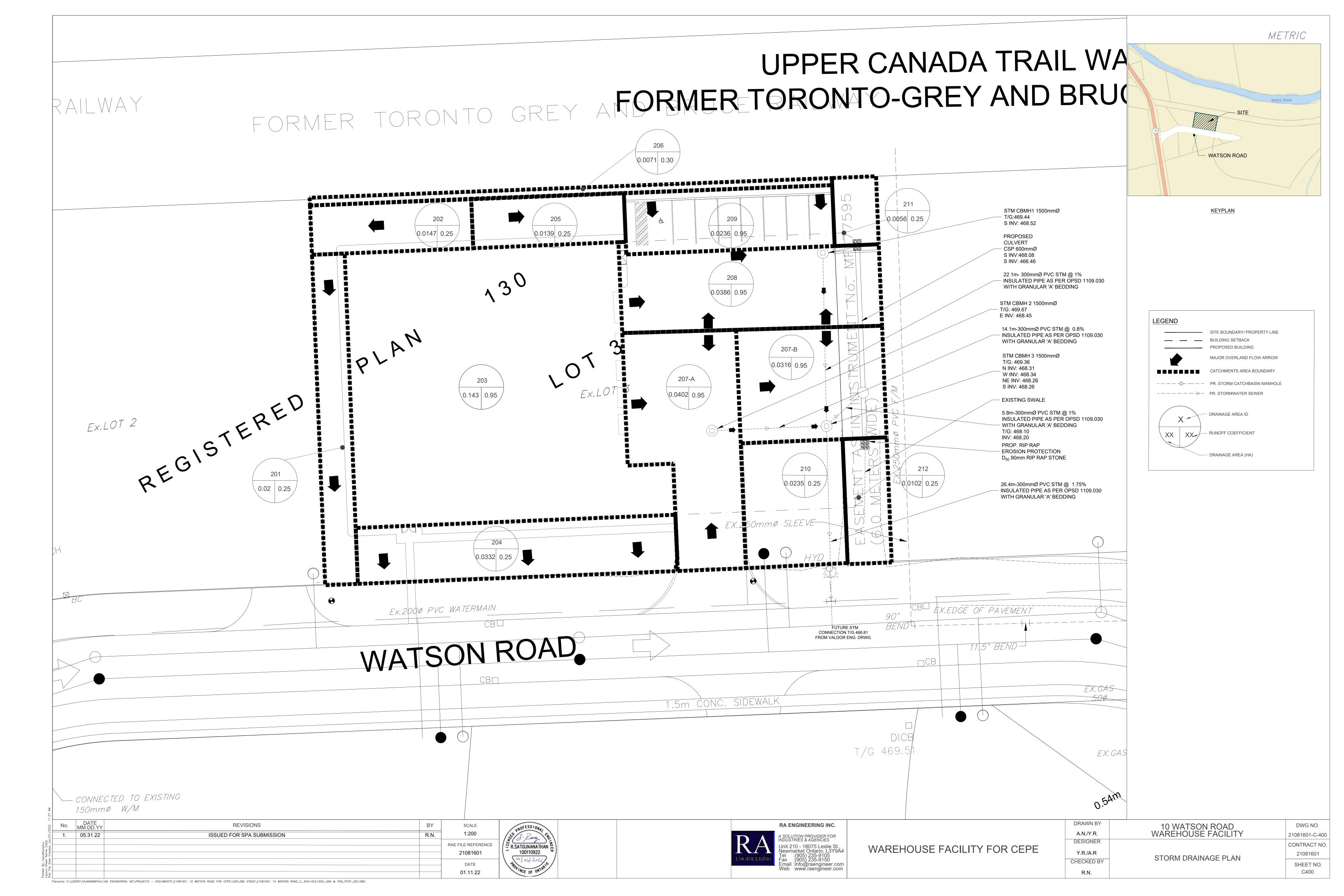


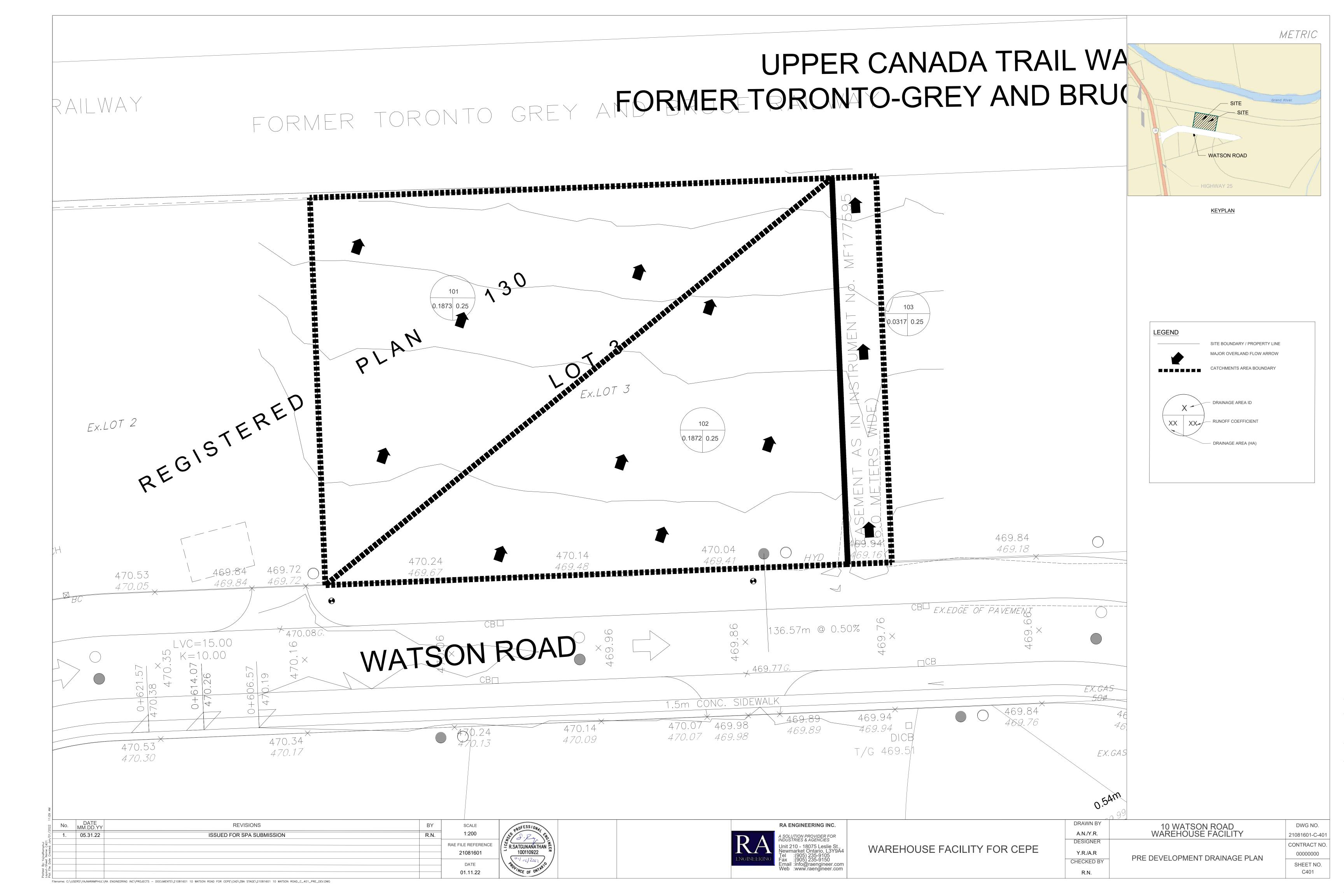
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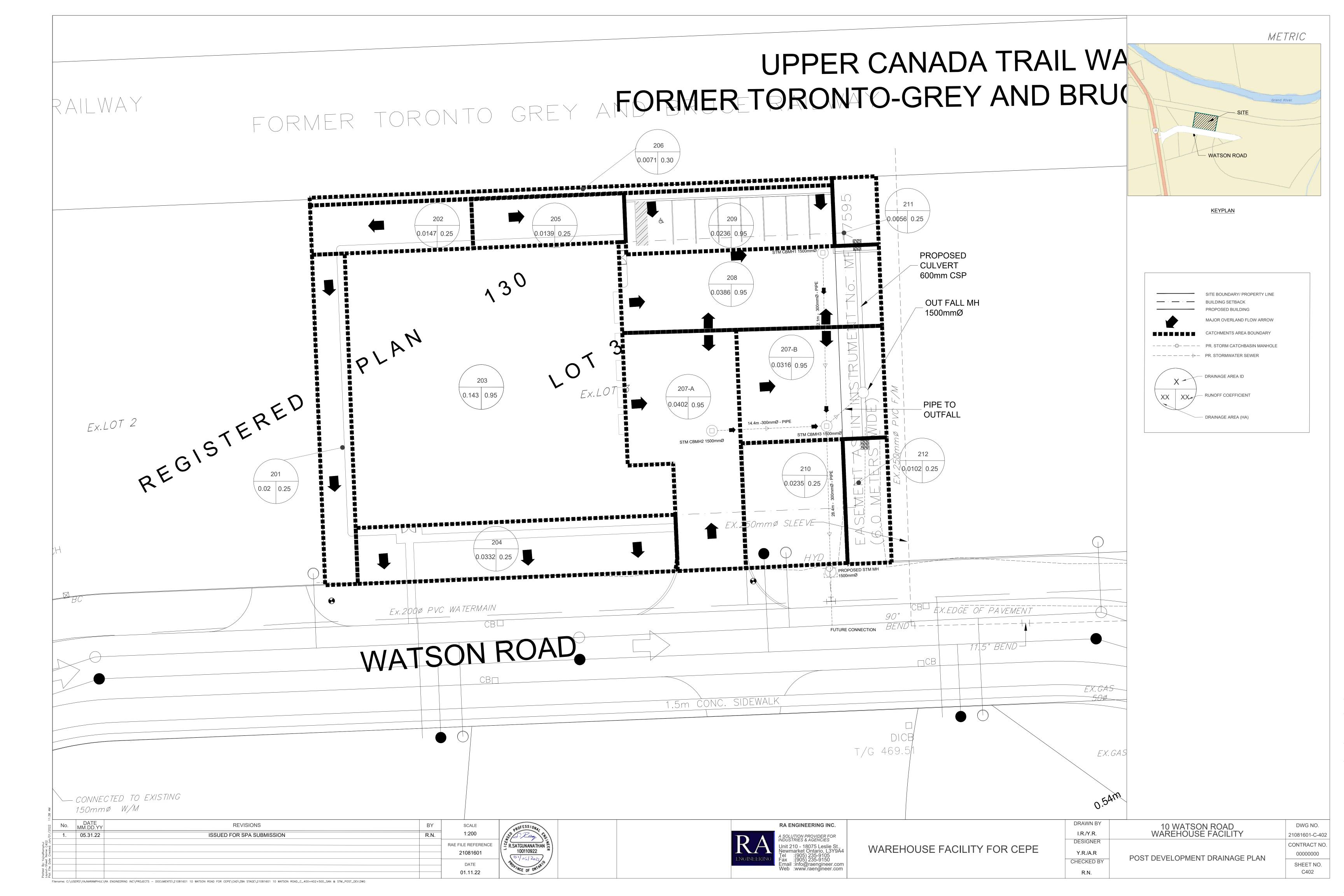


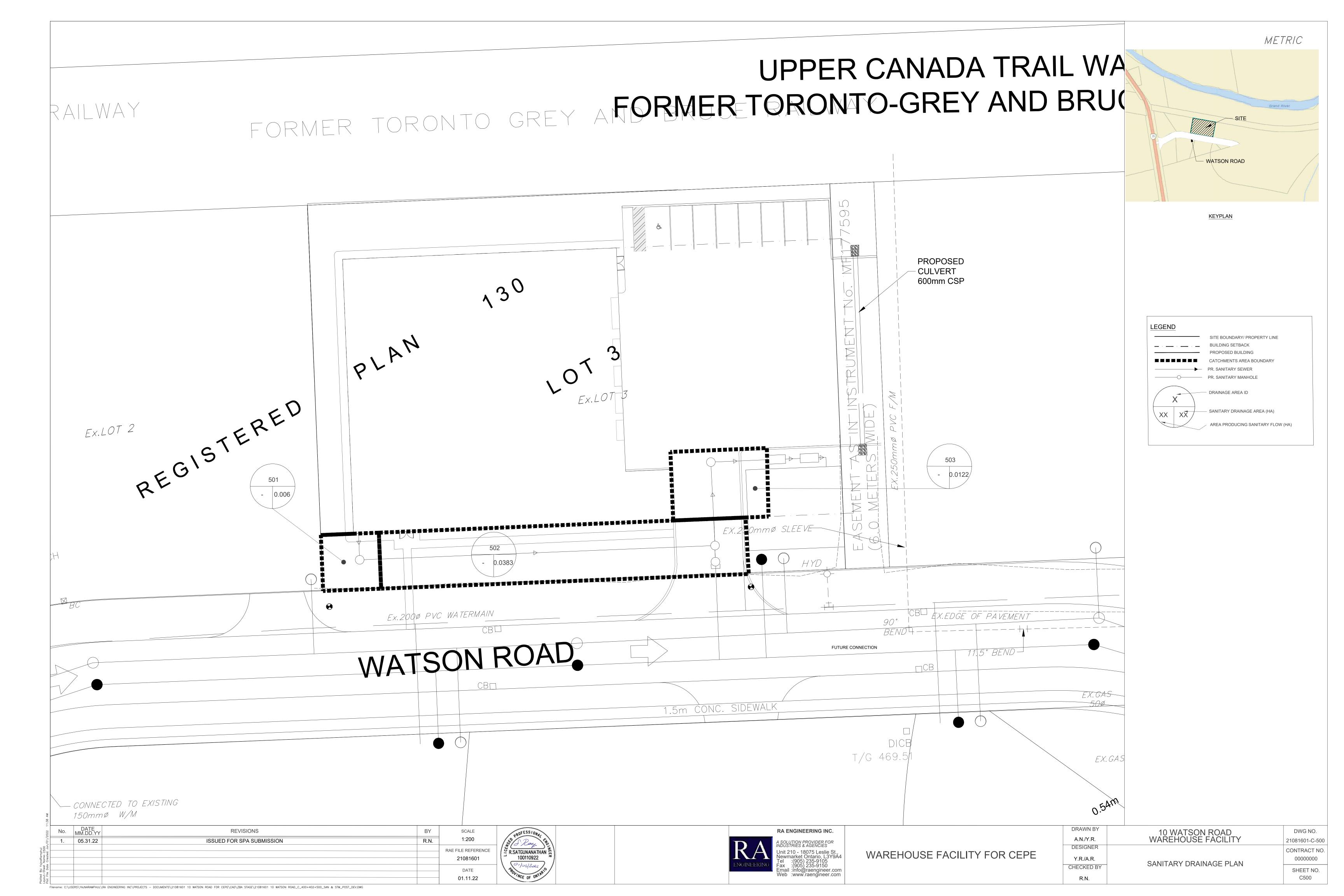


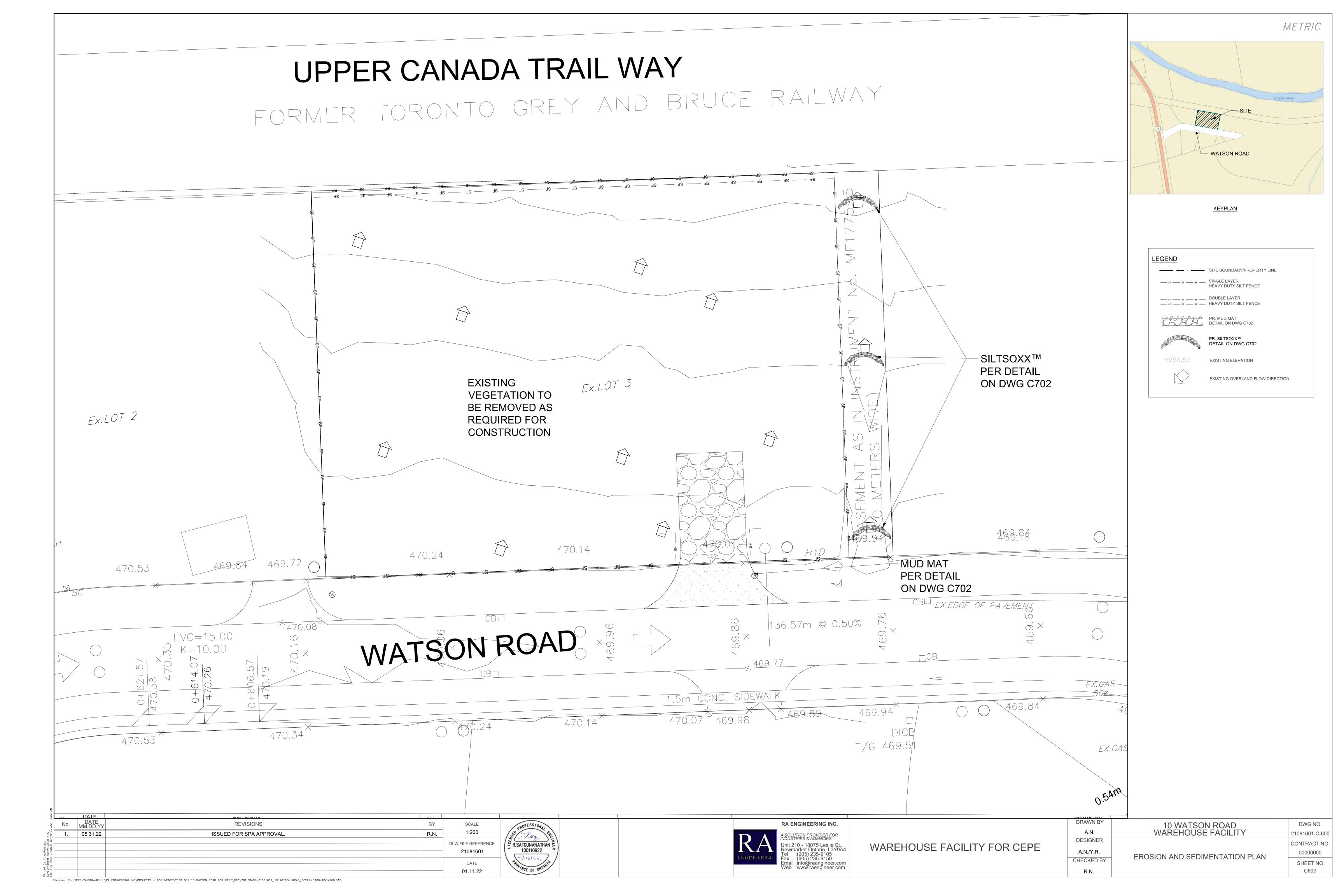


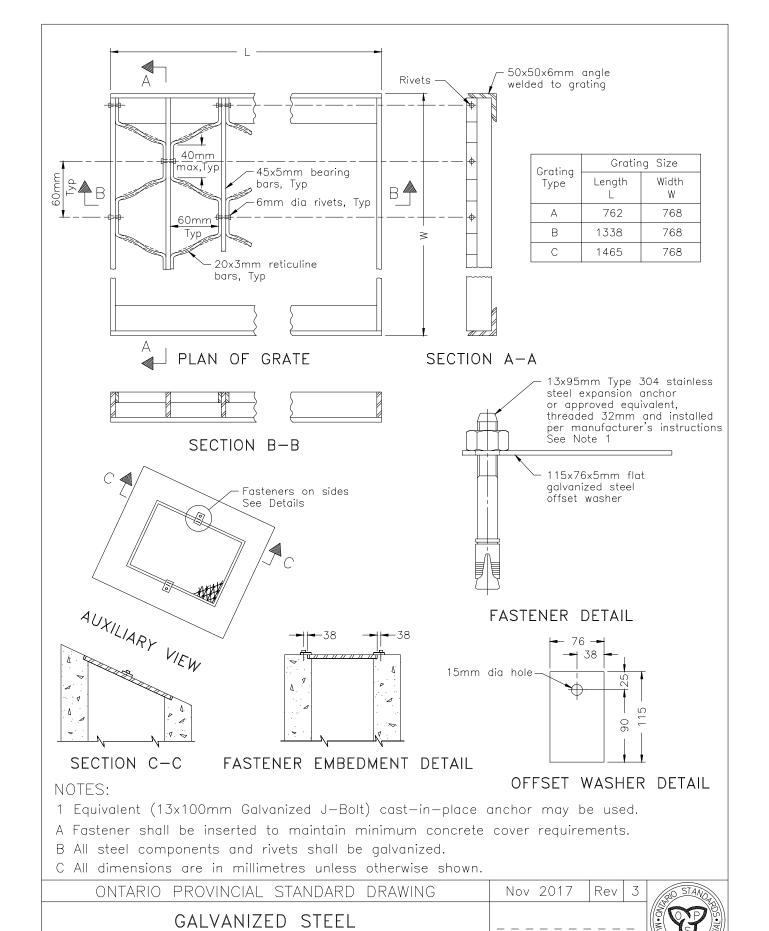






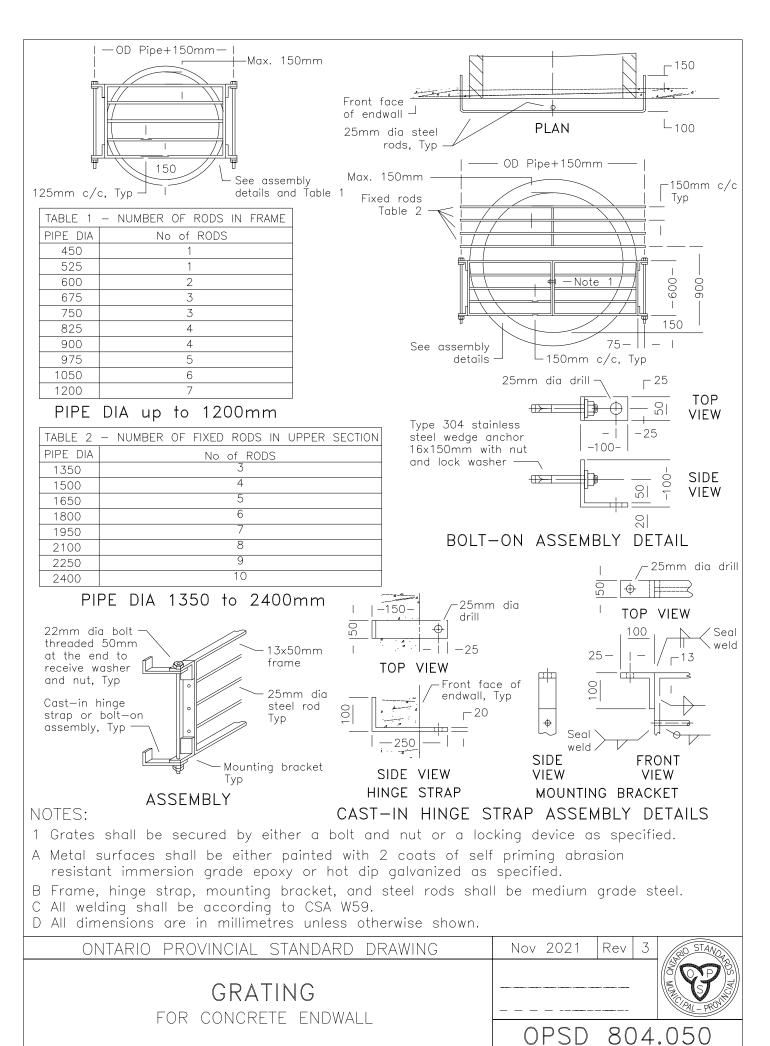


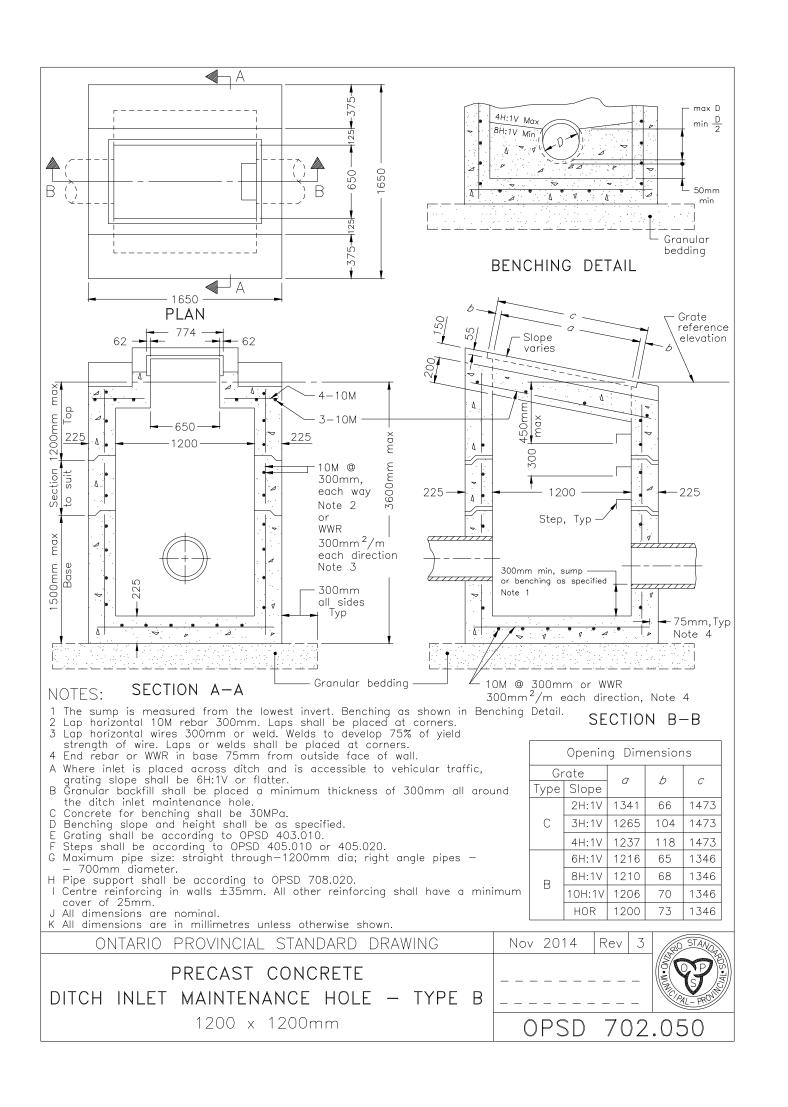


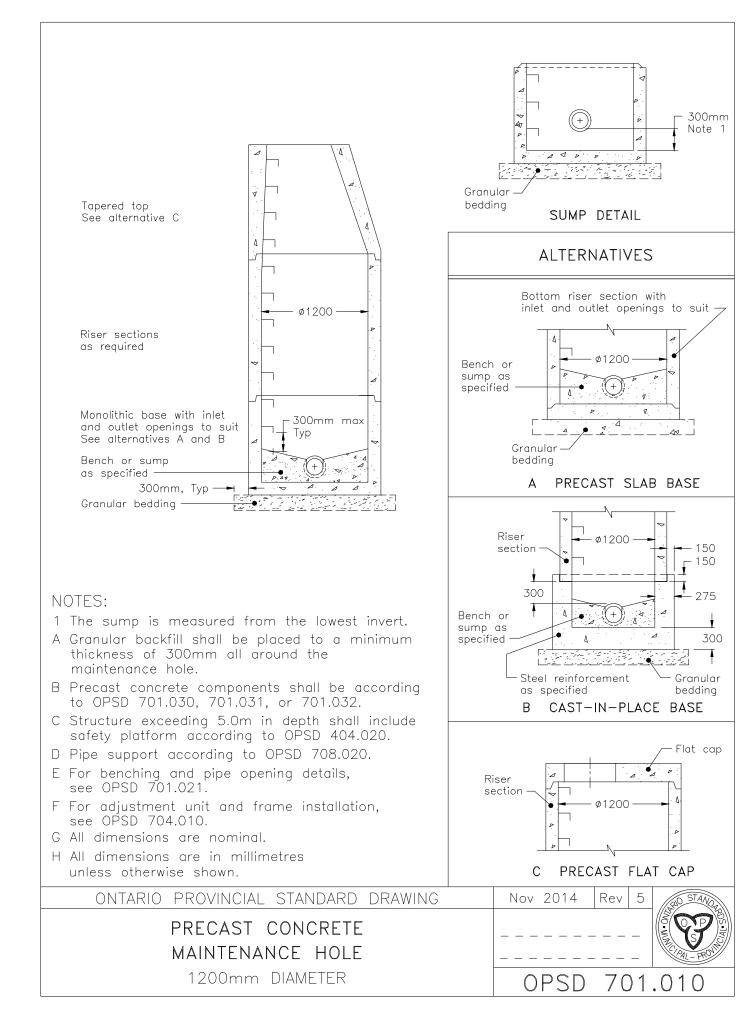


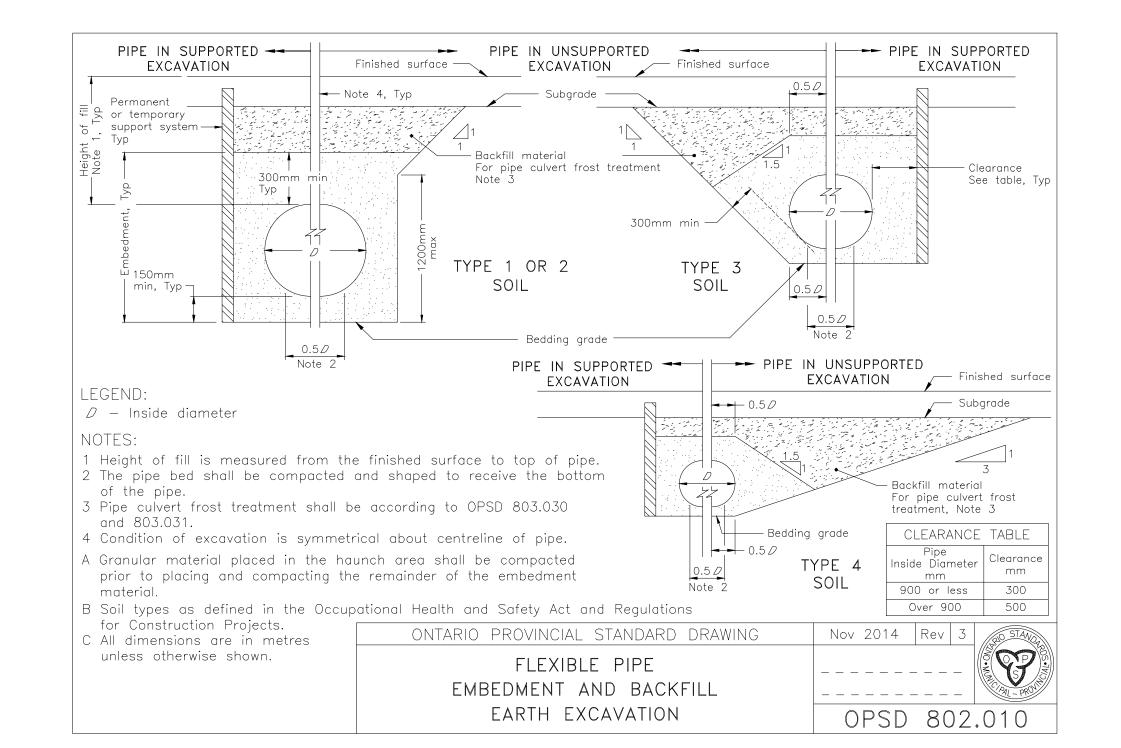
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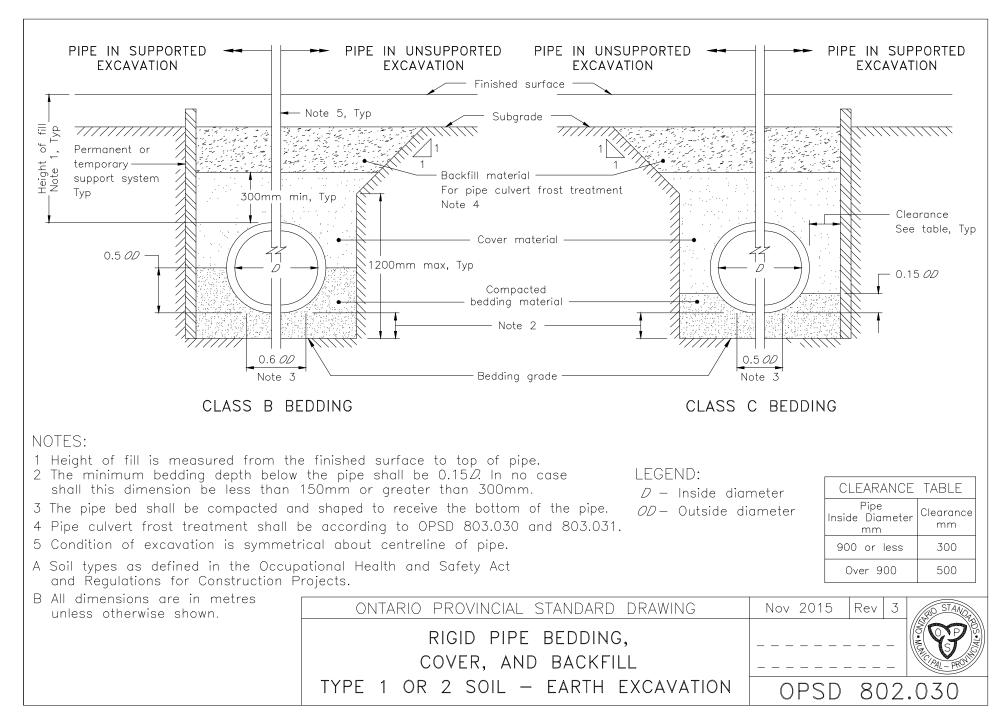


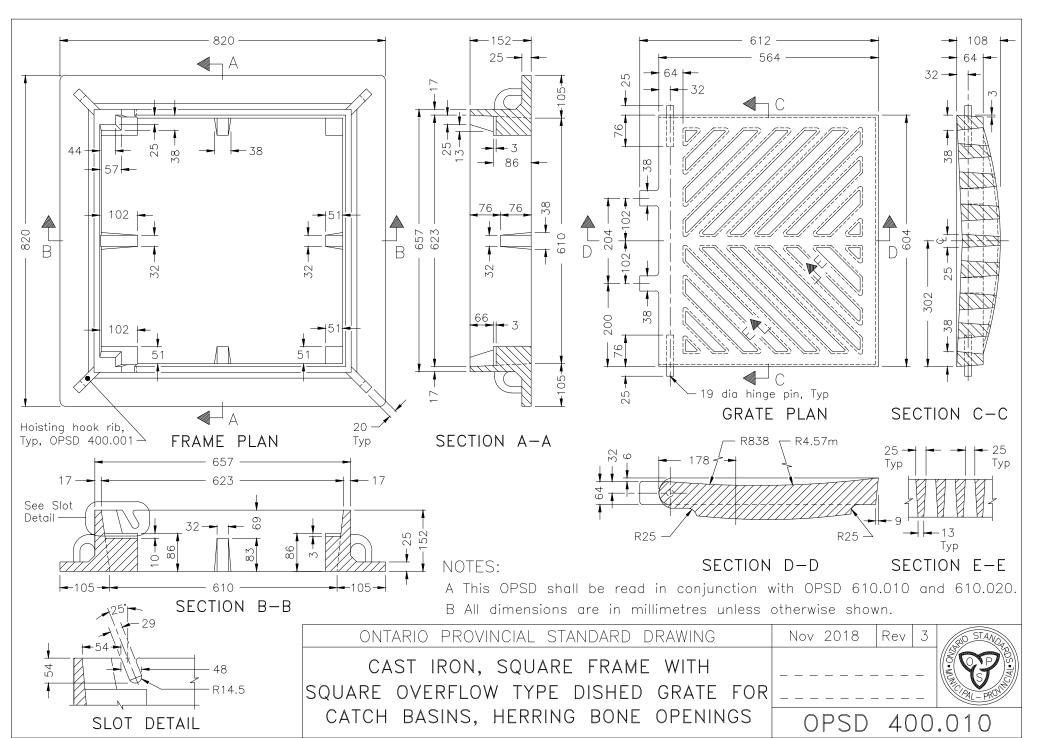


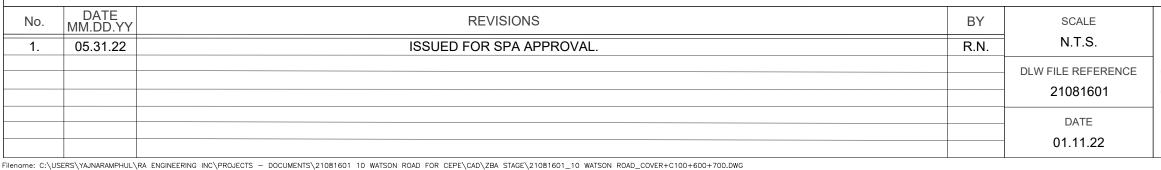


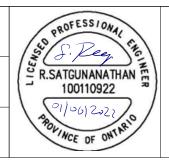
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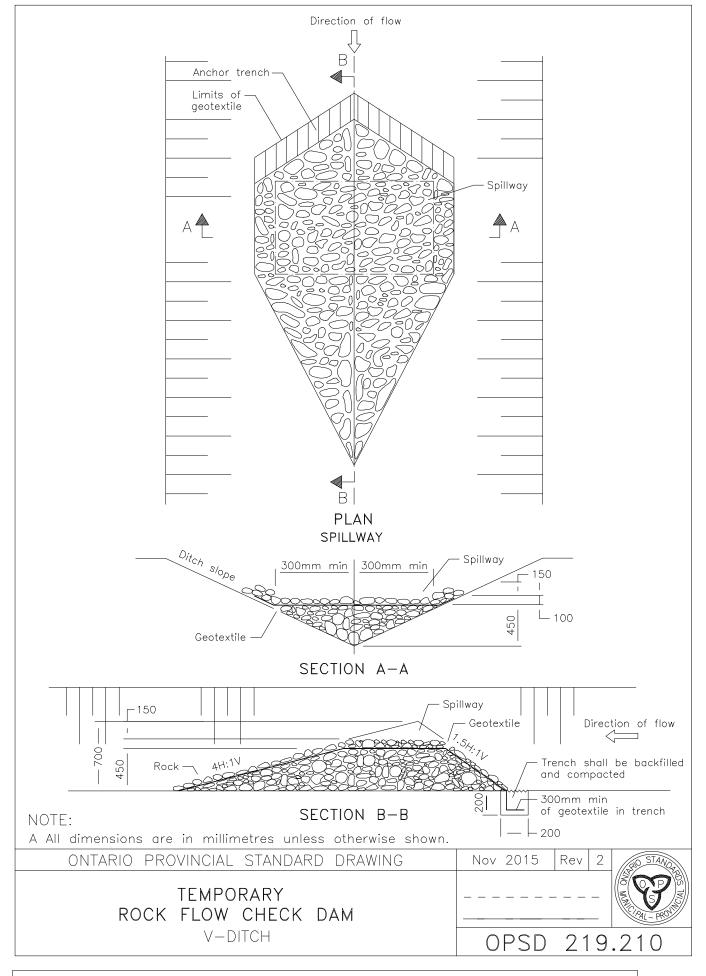


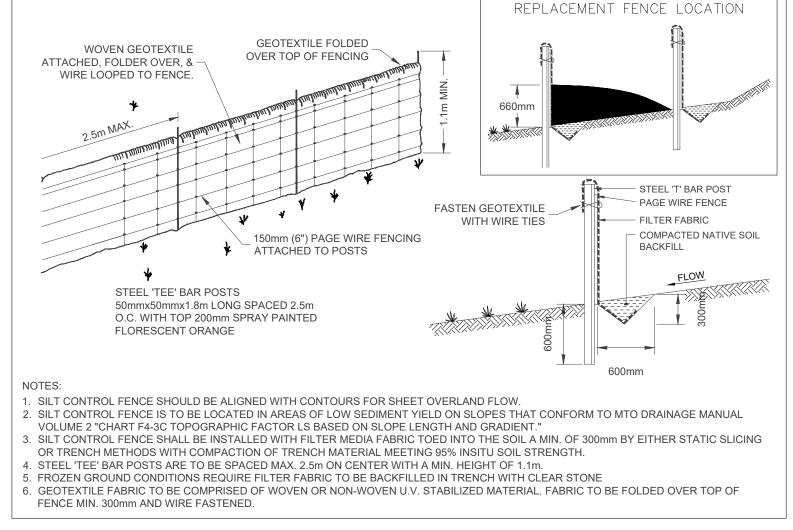




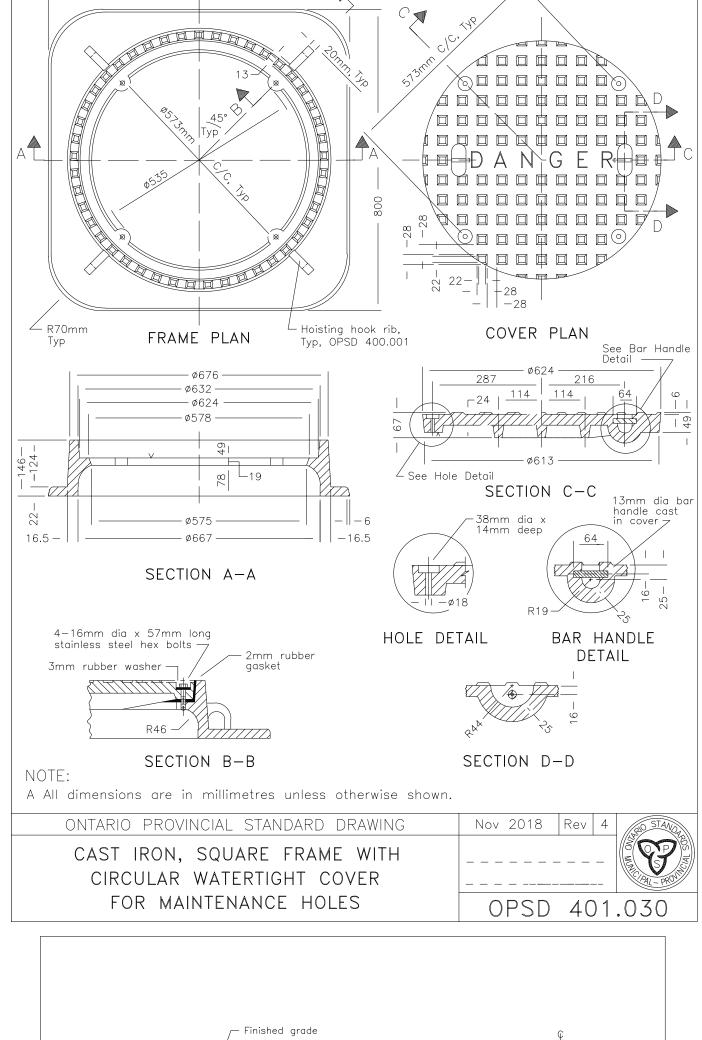


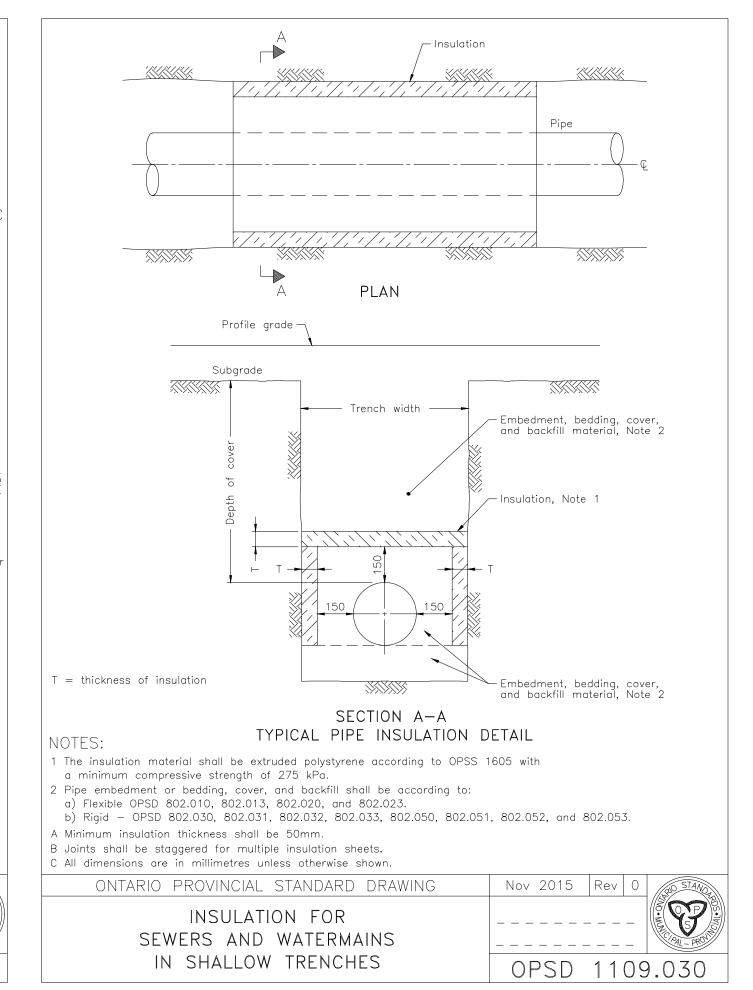
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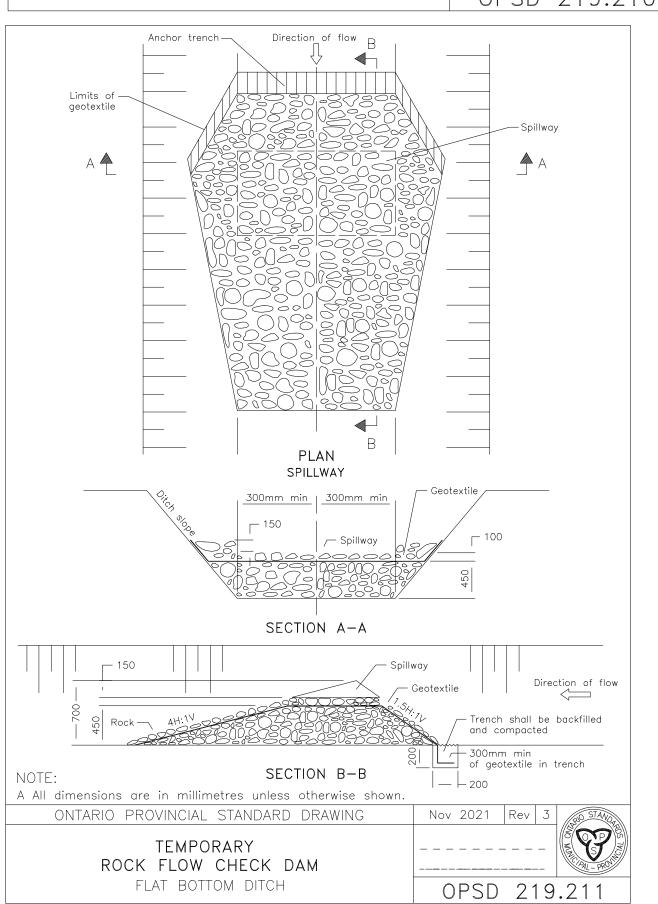


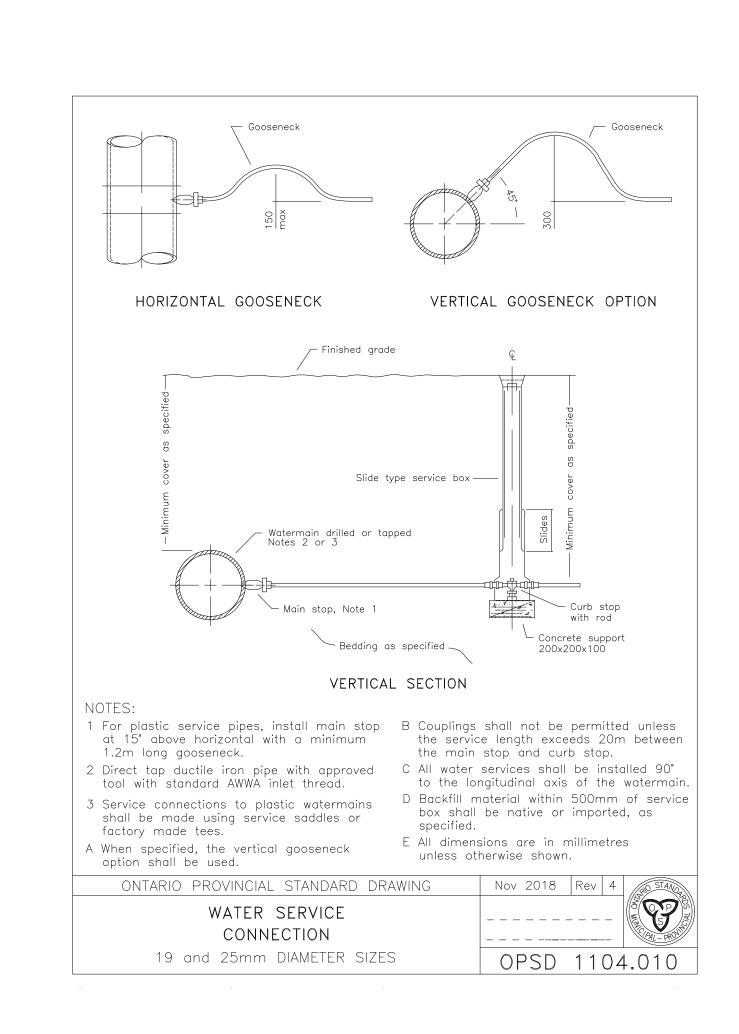


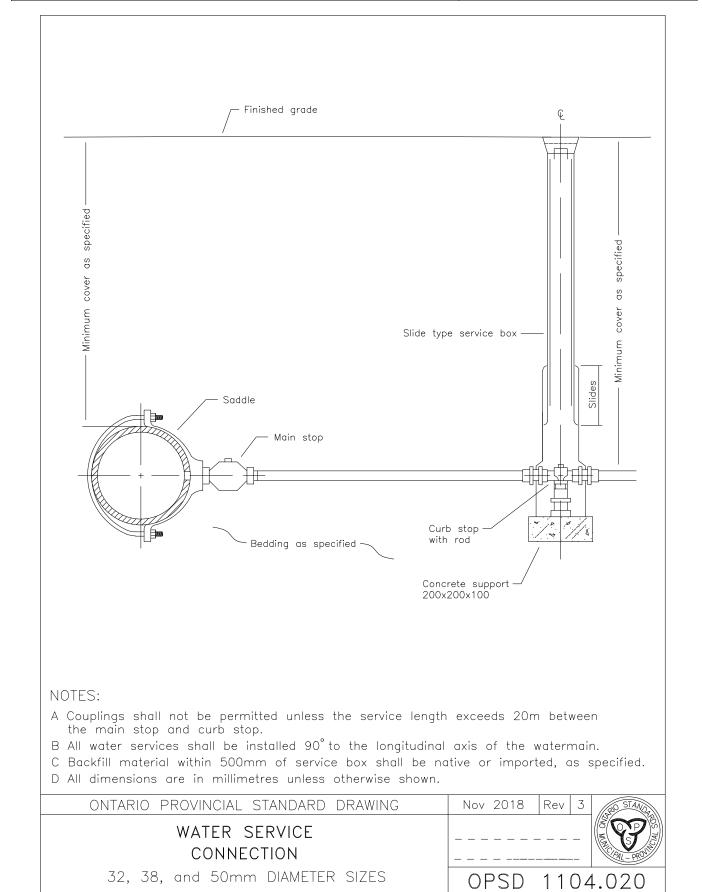
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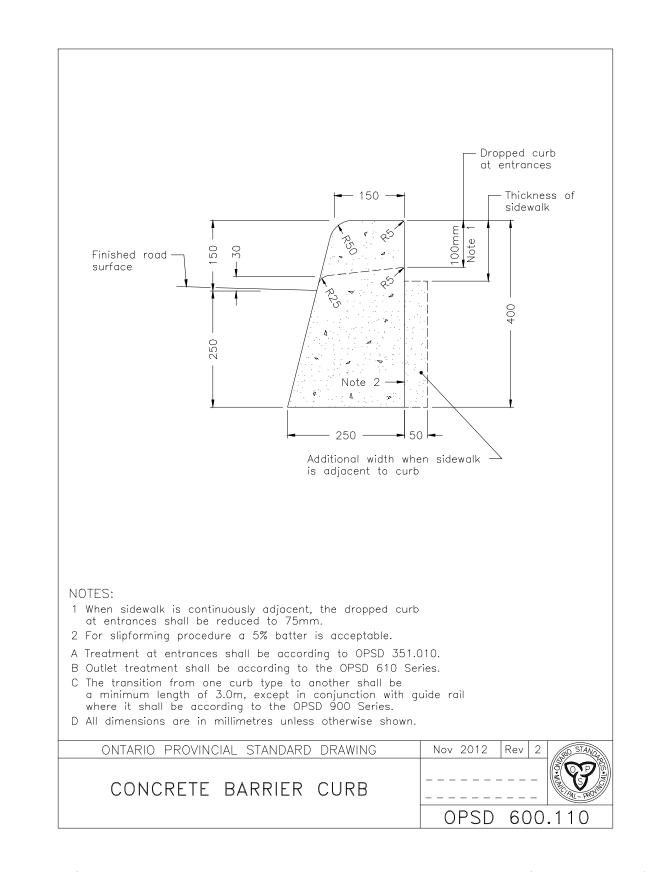


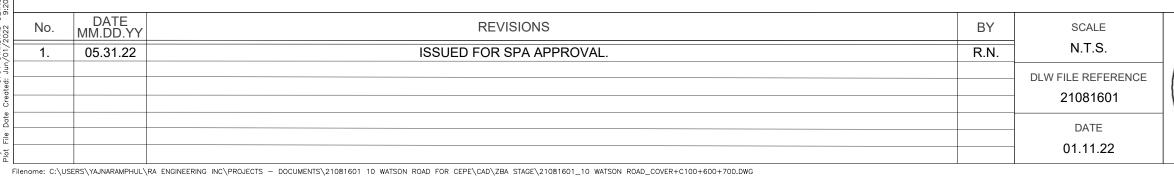


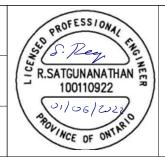








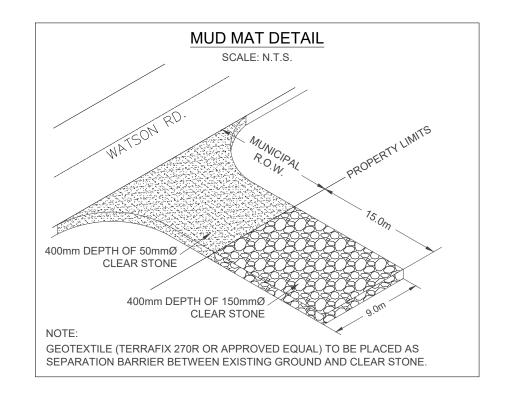


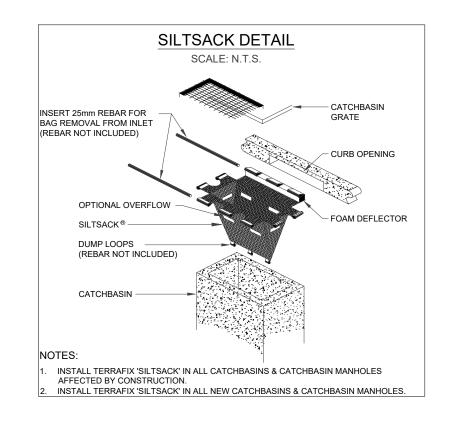


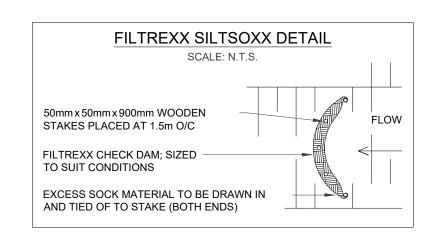


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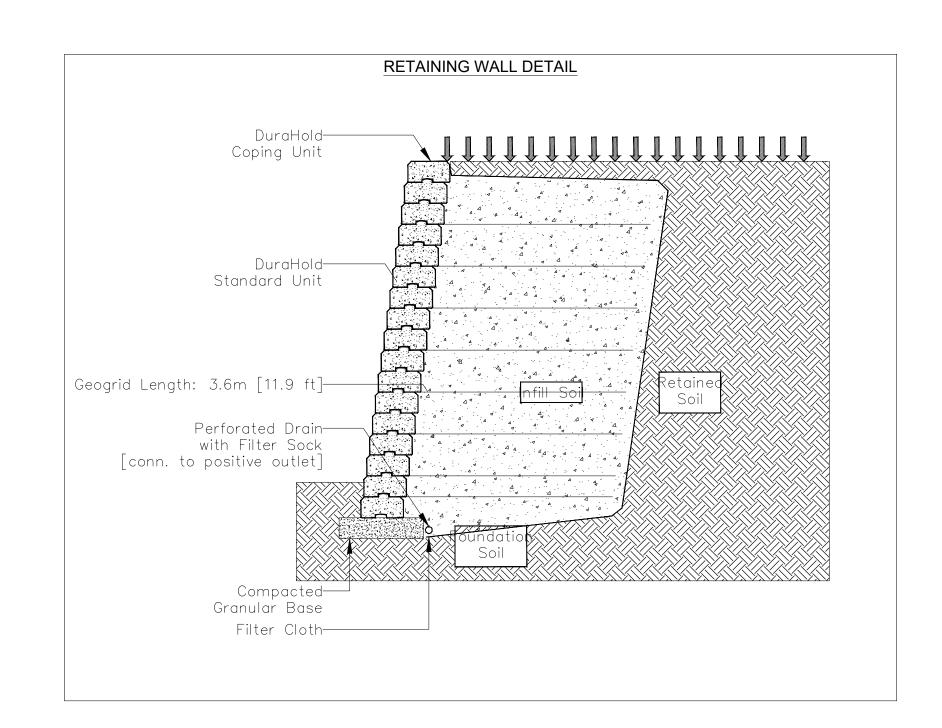
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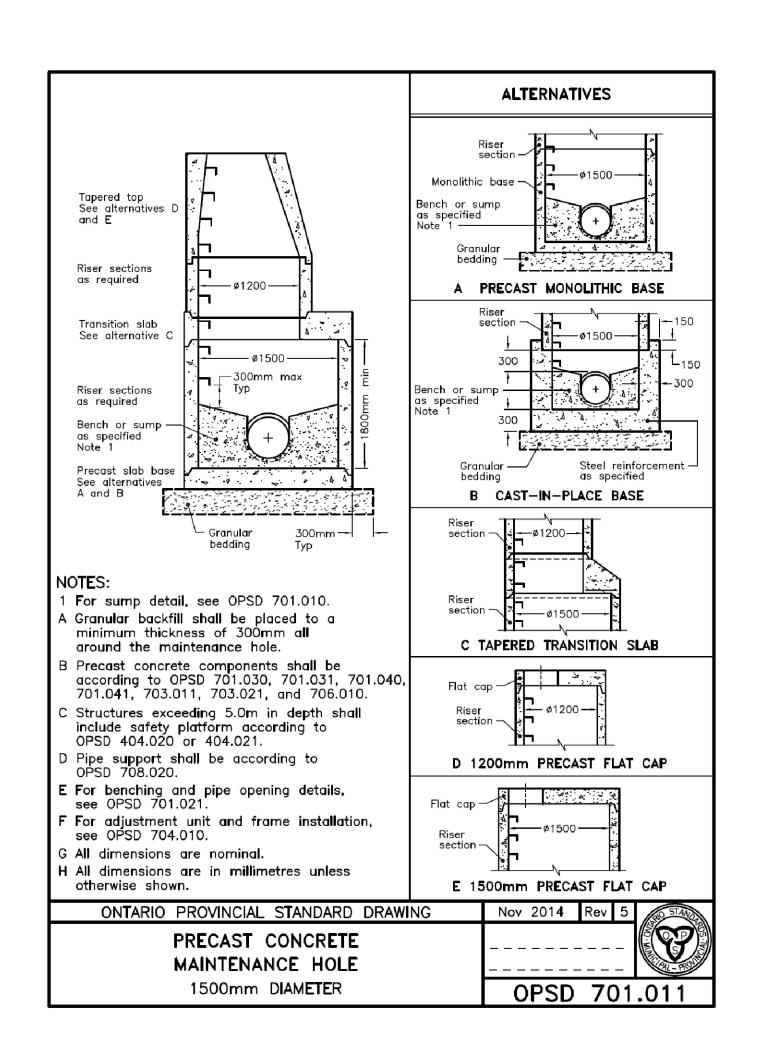


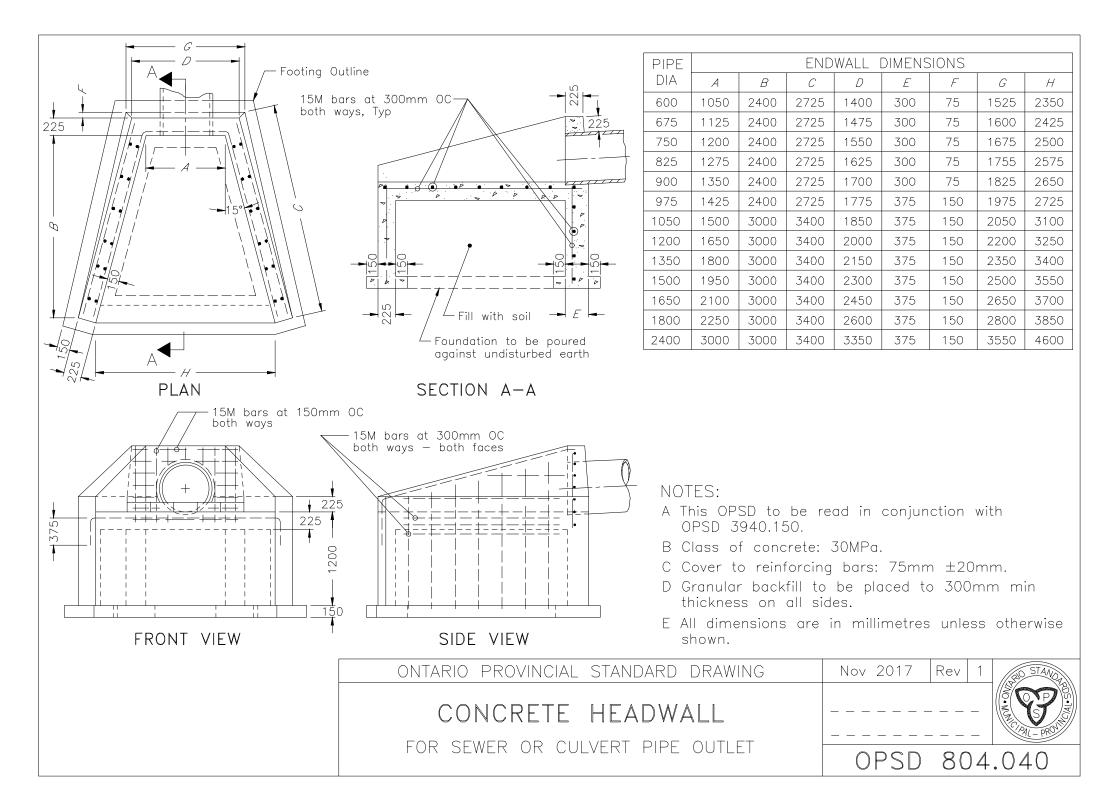


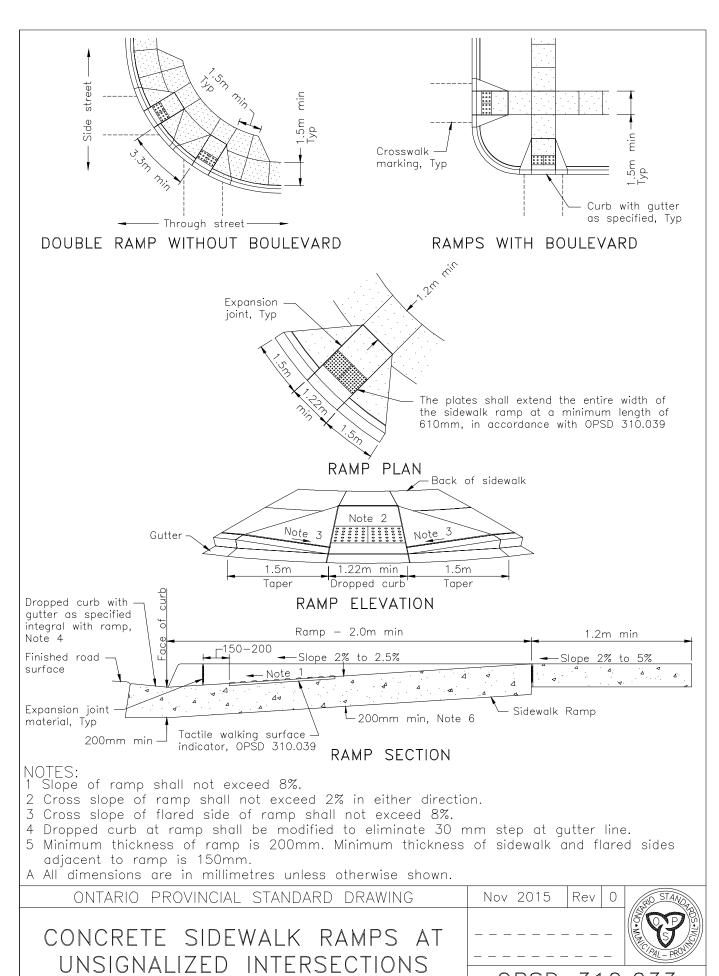


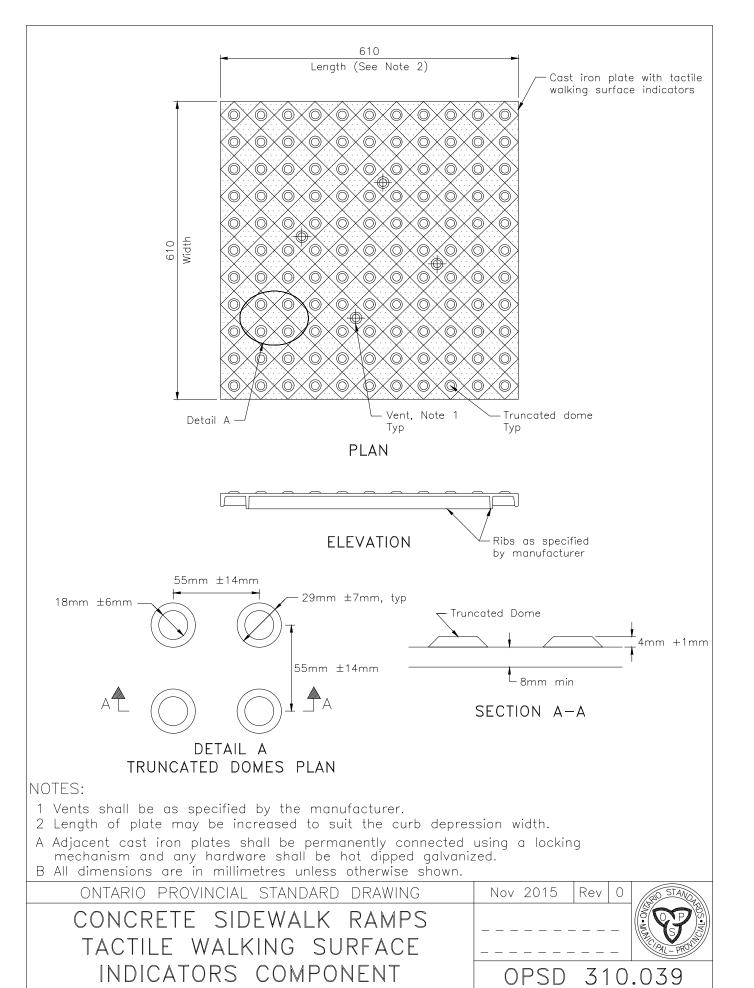
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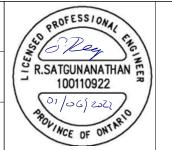








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