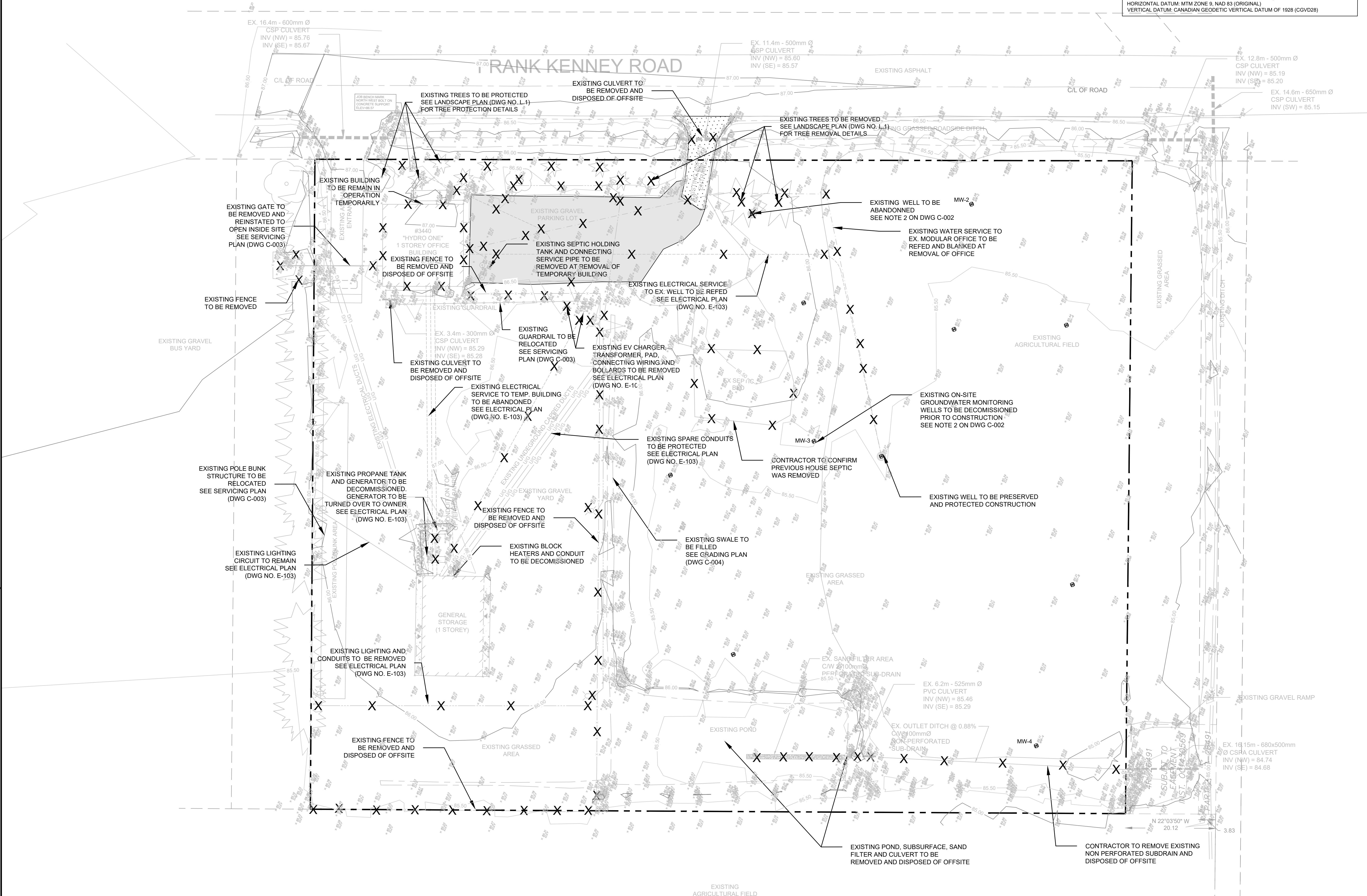


NOTES:
 1. FOR POTABLE WELL PROTECTION MEASURES, SEE HYDROLOGICAL REPORT BY GOLDER
 2. FOR MONITORING WELL & EXISTING POTABLE WELL DECOMMISSIONING MEASURES, SEE HYDROLOGICAL REPORT BY GOLDER

NOTE:
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 BOUNDARY INFORMATION DERIVED FROM REGISTERED SURVEY 4R-30029 PREPARED BY FARIHALL MOFFATT & WOODLAND LIMITED DATED JANUARY 3, 2017
 VERIFIED BY FARIHALL MOFFATT & WOODLAND LIMITED DATED JUNE 17, 2022
 HORIZONTAL DATUM: MTM ZONE 9, NAD 83 (ORIGINAL)
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 VERTICAL DATUM: CANADIAN GEODETIC VERTICAL DATUM OF 1928 (CGVD28)

LEGEND

- X REMOVALS
- EXISTING PAVEMENT REMOVAL AND DISPOSED OF OFFSITE
- EXISTING GRAVEL REMOVAL AND DISPOSED OF OFFSITE
- LOT LINE
- EXISTING TREES
- EXISTING CHAIN LINK FENCE
- EXISTING BUILDING
- EXISTING BOREHOLE
- EXISTING MONITORING WELL
- EXISTING LIGHT STANDARD
- EXISTING CONTOUR
- ORIGINAL GROUND ELEVATION FROM TOPG



No.	ISSUE / REVISION	DDMMYY
03	ISSUED FOR CITY SITE PLAN APPROVAL	21/12/22
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CLIENT:
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CONSULTANT:
JLR J.L.Richards
 ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP PROJECT NORTH

PROJECT:
HYDRO ONE OPERATIONS CENTRE, ORLEANS
 3440 FRANK KENNY ROAD

DRAWING:
EXISTING CONDITIONS & REMOVALS PLAN

DESIGN: M.D.
 DRAWN: G.C.
 CHECKED: D.U.
 JLR #: 31500-000

DRAWING #:
C-002

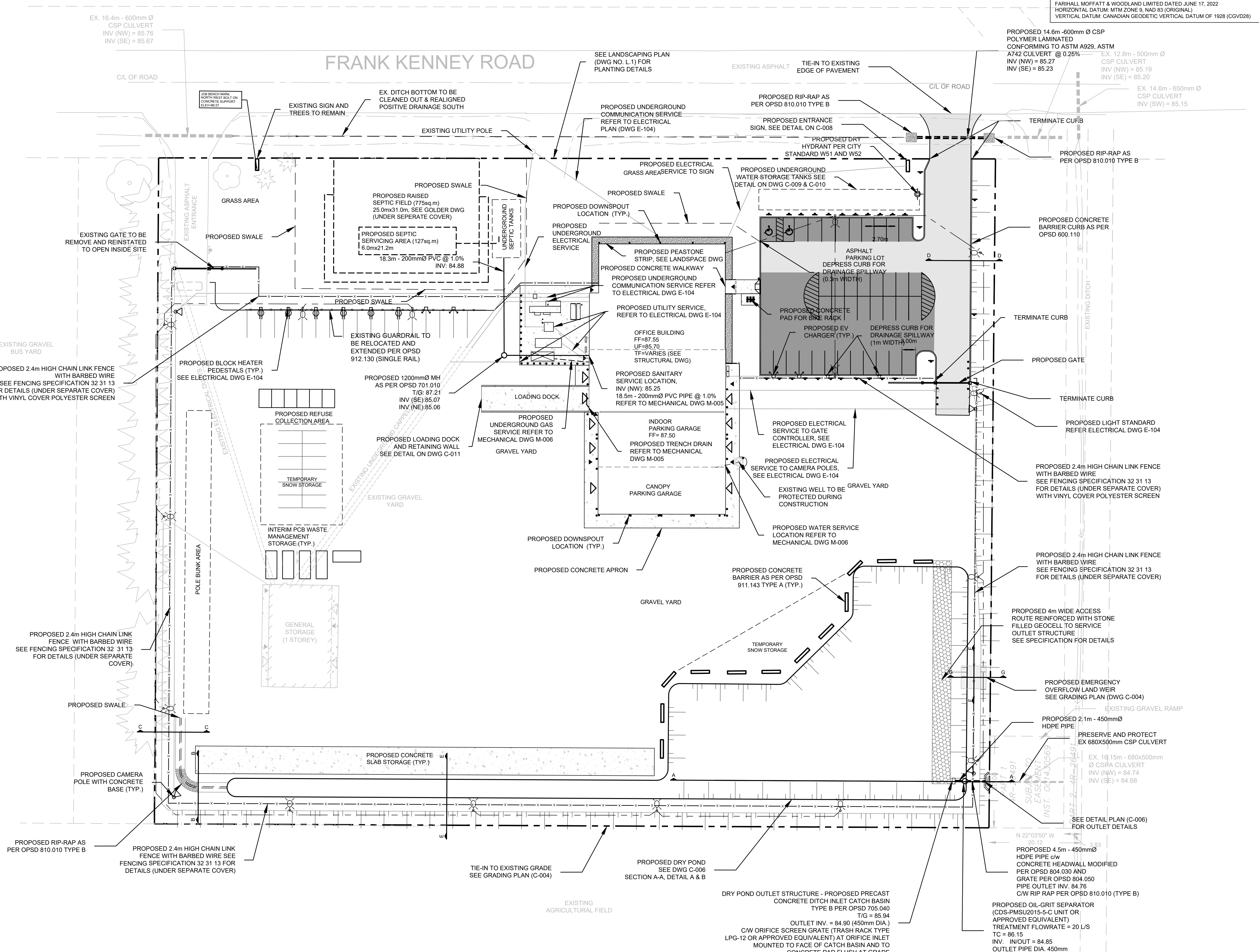
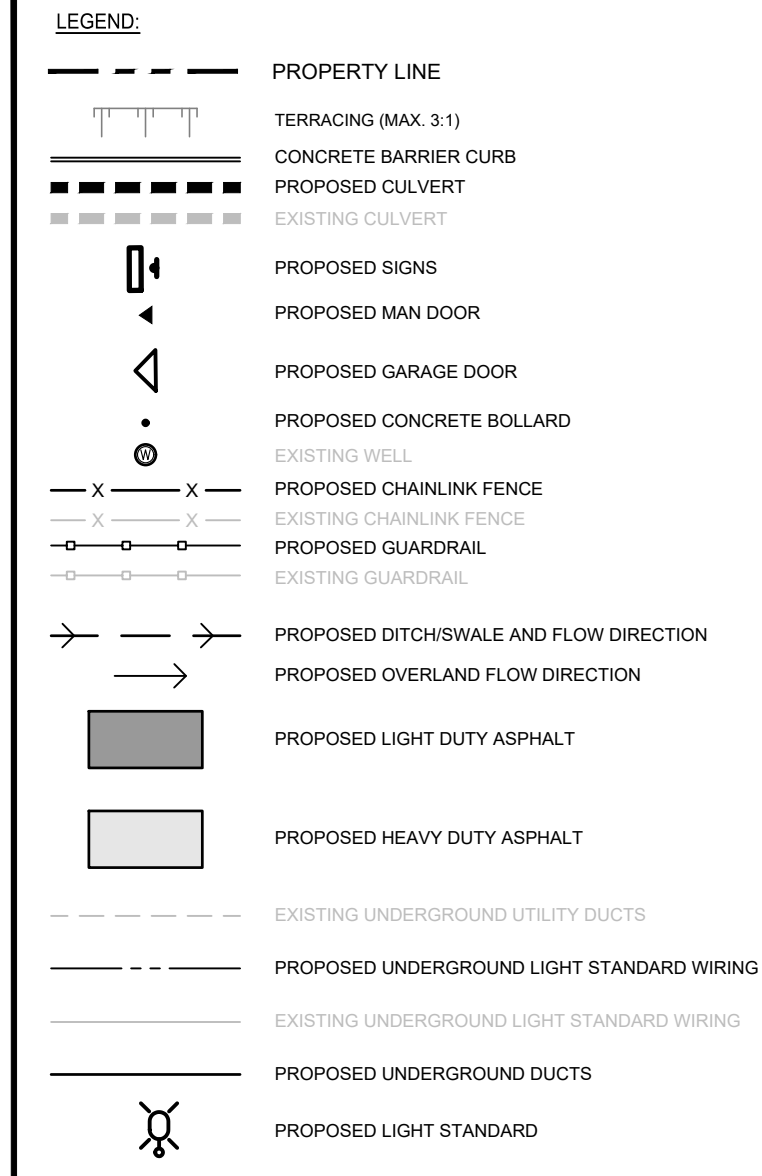
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PLOT DATE: December 21, 2022 10:09:46 AM

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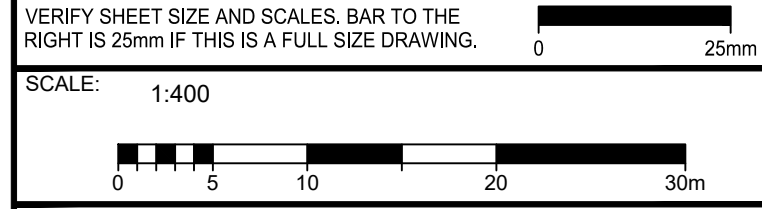
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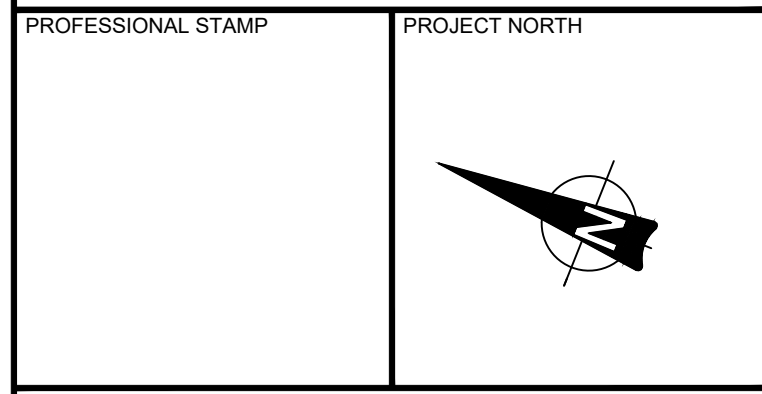
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CONSULTANT:
JLR J.L. Richards
 ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:



PROJECT:
HYDRO ONE OPERATIONS CENTRE, ORLEANS
 3440 FRANK KENNY ROAD

DRAWING:
SERVICING PLAN

DESIGN: M.D.
 DRAWN: G.C.
 CHECKED: D.U.
 JLR #: 31500-000

DRAWING #: **C-003**

D07-12-22-0057

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File Location: P:\13100051\500-000 - HONI Orleans OPO\3-Production1-Civil\31500-000.C GRADING.dwg

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LEGEND:

	PROPERTY LINE
	PROPOSED ELEVATION
	ORIGINAL GROUND ELEVATION FROM TOPS
	SURFACE SLOPE
	TERRACING (MAX. 3:1)
	CONCRETE BARRIER CURB
	PROPOSED CULVERT
	EXISTING CULVERT
	PROPOSED MAN DOOR
	PROPOSED GARAGE DOOR
	PROPOSED CONCRETE BOLLARD
	PROPOSED SIGN
	PROPOSED CHAINLINK FENCE
	EXISTING CHAINLINK FENCE
	PROPOSED GUARDRAIL
	EXISTING GUARDRAIL
	PROPOSED DITCHSWALE AND FLOW DIRECTION
	PROPOSED OVERLAND FLOW DIRECTION
	PROPOSED LIGHT DUTY ASPHALT
	PROPOSED HEAVY DUTY ASPHALT
	EXISTING UNDERGROUND UTILITY DUCTS
	PROPOSED UNDERGROUND LIGHT STANDARD WIRING
	EXISTING UNDERGROUND LIGHT STANDARD WIRING
	PROPOSED UNDERGROUND DUCTS
	PROPOSED LIGHT STANDARD
	EXISTING LIGHT STANDARD
	EXISTING BOREHOLE

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JLR J.L.Richards
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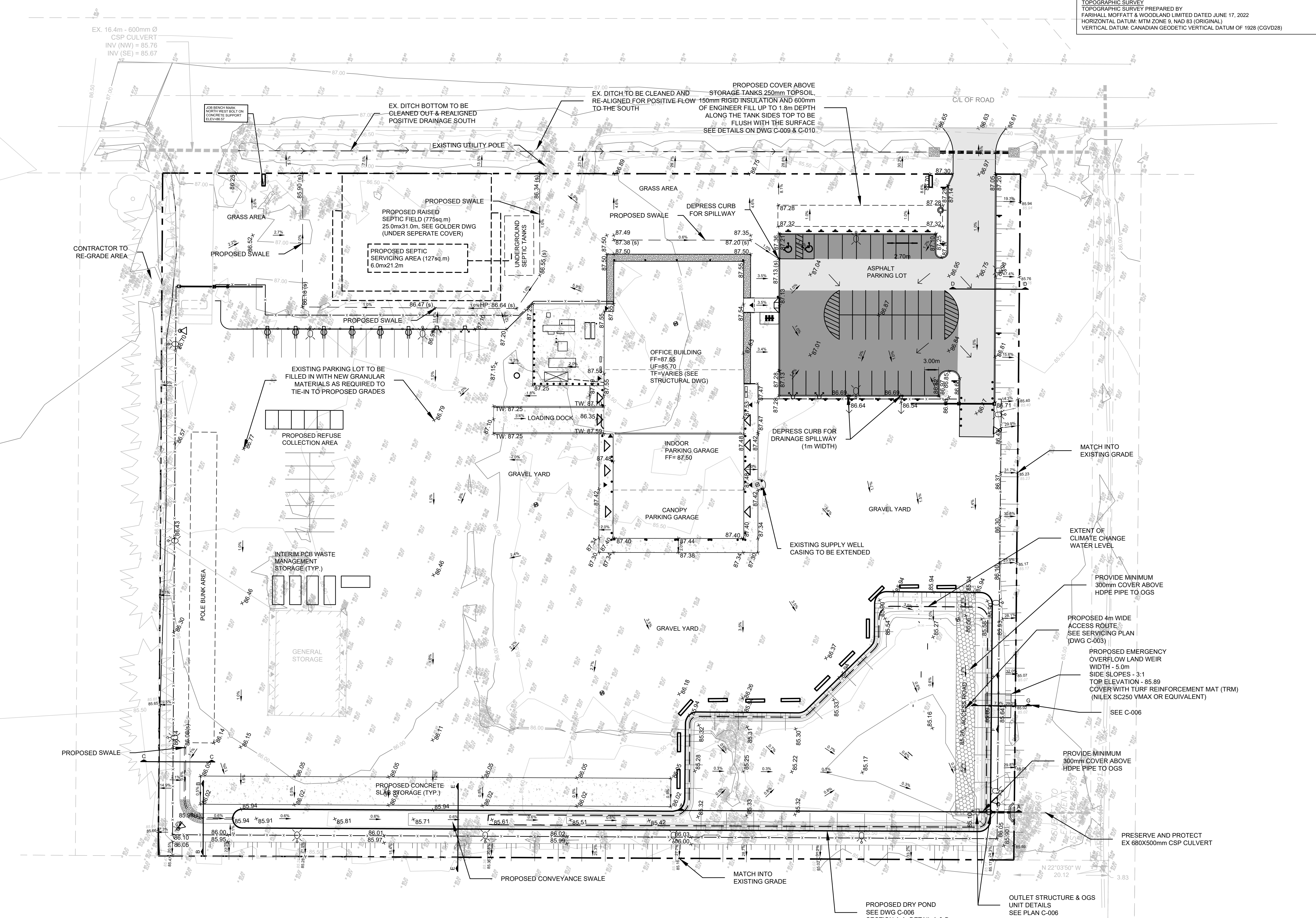
CONSULTANT:
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PROFESSIONAL STAMP
 PROJECT NORTH

PROJECT:
HYDRO ONE OPERATIONS CENTRE, ORLEANS
 3440 FRANK KENNY ROAD

DRAWING:
GRADING PLAN

DESIGN: M.D.	DRAWING #:
DRAWN: G.C.	C-004
CHECKED: D.U.	JLR #:
JLR #: 31500-000	



PLOT DATE: December 21, 2022 10:05:56 AM

D07-12-22-0057

File Location: P:\1310005\1500-000 - HONI Orleans OPD\3-Production1-Civil\31500-000 C DRAINAGE & STORM WATER MANAGEMENT.dwg

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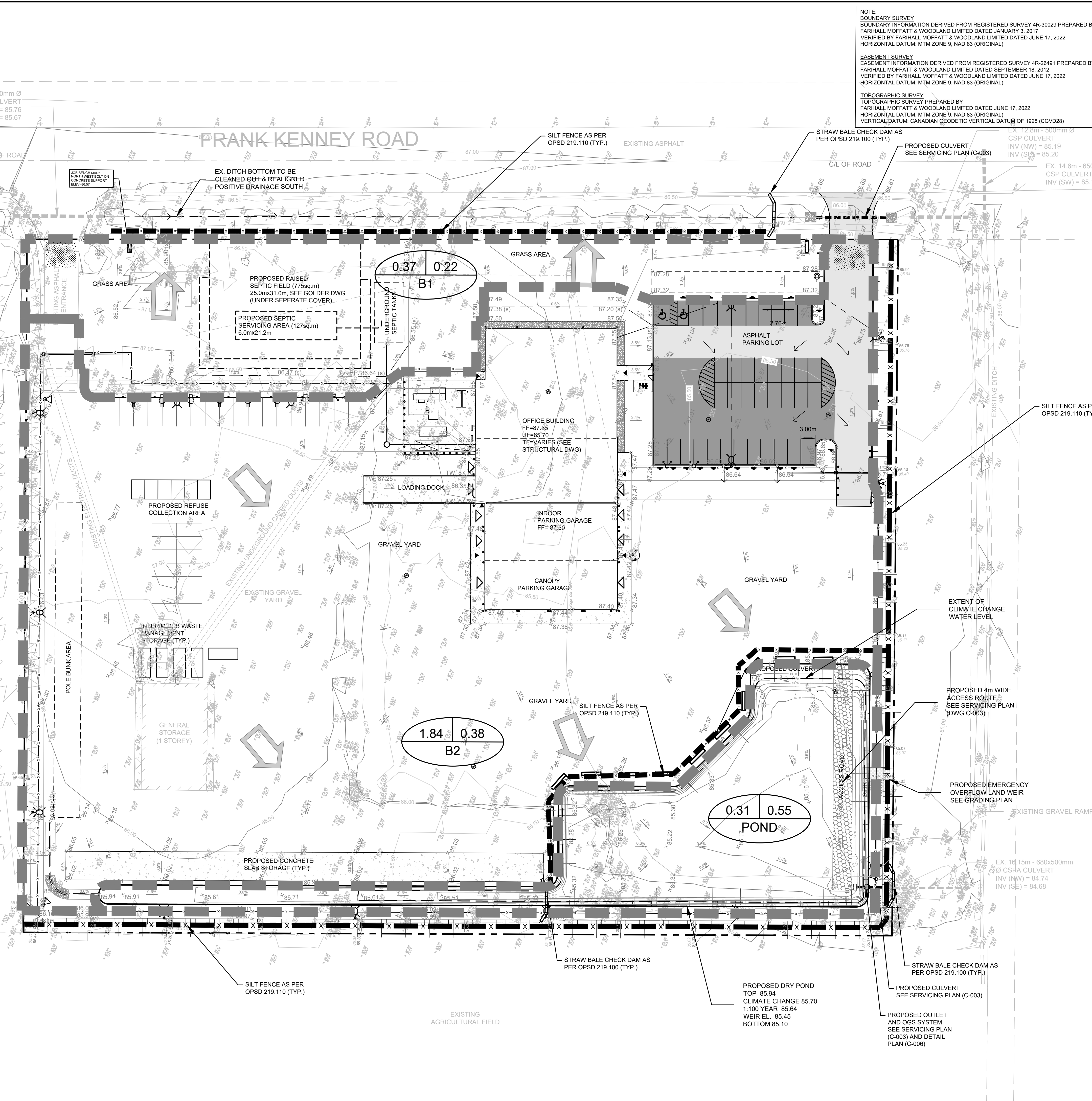
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LEGEND

- PROPOSED LIGHT DUTY SILT FENCE AS PER OPD 219.110
- PROPERTY LINE
- EXISTING CHAIN LINK FENCE
- EXISTING BUILDING
- PROPOSED LIGHT DUTY STRAW BALE BARRIER AS PER OPD 219.100
- DRAINAGE BOUNDARY
- AREA IN HECTARES
- RUNOFF COEFFICIENT
- AREA ID
- DRAINAGE DIRECTION
- PROPOSED MUD MAT
- EXISTING BOREHOLE

- EROSION AND SEDIMENT CONTROL NOTES**
- ALL SEDIMENTATION CONTROL MEASURES ARE TO BE IMPLEMENTED PER OPSS AND OPD. SILT FENCE BARRIER PER OPD 219.110.
 - CONTRACTOR TO ENSURE ALL SEDIMENT AND EROSION CONTROL MEASURES ARE IMPLEMENTED BEFORE WORK AND MAINTAINED DURING THE WORK PHASE TO PREVENT ENTRY OF SEDIMENT INTO THE RECEIVING WATERCOURSES.
 - CONTRACTOR TO ENSURE ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED DAILY AND THEY ARE FUNCTIONING PROPERLY AND ARE BEING MAINTAINED AND/OR UPGRADED AS REQUIRED. IF THE SEDIMENT AND EROSION CONTROL MEASURES ARE NOT FUNCTIONING PROPERLY, NO FURTHER WORK SHALL OCCUR UNTIL THE PROBLEM HAS BEEN ADDRESSED AND RECTIFIED.
 - HYDROSEEDING OF ALL DITCHES IS TO BE PROVIDED IMMEDIATELY FOLLOWING FINAL SHAPING/GRADING.
 - CONTRACTOR TO SUPPLY AND INSTALL STRAW BALE BARRIER (PER OPD 219.100) UPSTREAM OF ALL CULVERT INSTALLATIONS AND SHALL ONLY BE REMOVED ONCE UPSTREAM VEGETATION HAS BEEN ESTABLISHED.
 - CONTRACTOR TO SUPPLY AND INSTALL SILT FENCE BARRIER (PER OPD 219.110) TO ENCLOSE ALL BORROW AND STOCKPILE AREAS RESULTING FROM TOPSOIL STRIPPING ACTIVITIES OR ANY EXCAVATING ACTIVITIES.
 - CONTRACTOR TO ENSURE ALL STOCKPILED MATERIALS ARE STORED ON A FLAT AREA ARE STABILIZED AND AWAY FROM ANY FLOW PATHS.
 - IF A STOCKPILE IS PLACED IN AREAS WITH POTENTIAL WASH OFF TO A CONVEYANCE SYSTEM, SILT FENCE BARRIERS (PER OPD 219.110) WILL NEED TO BE INSTALLED TO ENCLOSE THE MATERIALS AND PREVENT ANY WASH OFF.
 - CONTRACTOR TO ENSURE ALL PUMPED STORMWATER/GROUNDWATER IS FILTERED THROUGH SEDIMENT DEWATERING BAGS BEFORE ITS RELEASE TO THE RECEIVING STREAM.
 - CONTRACTOR TO ENSURE THAT ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND PROJECT COMPLETION ARE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCES (I.E., PETROLEUM PRODUCTS, SILT, ETC.) FROM ENTERING THE RECEIVING WATERCOURSE.
 - CONTRACTOR TO ENSURE ANY VEHICLE AND EQUIPMENT RE-FUELLING AND MAINTENANCE TO BE CONDUCTED AWAY FROM DRAINAGE CHANNELS AND ANY PART OF EQUIPMENT ENTERING A CHANNEL TO BE FREE OF FLUID LEAKS AND EXTERNALLY CLEANED/DEGREASED TO PREVENT ANY DELETERIOUS SUBSTANCES FROM ENTERING THE RECEIVING WATERCOURSE.
 - ALL SPILL PREVENTION AND CONTINGENCY PLANS SHALL BE MAINTAINED AND MONITORED/RECORDED ON A REGULAR BASIS AS REQUIRED TO ENSURE CONTAMINANTS DO NOT ENTER THE NATURAL ENVIRONMENT.
 - CONTRACTOR TO ANTICIPATE THE USE OF CONSTRUCTION MAT (GEOTERRA OT EQUIVALENT) WITHIN THE PHASE 2 BUILDING SITE AREA.



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CLIENT:

CONSULTANT:

CONSULTANT:

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

HYDRO ONE OPERATIONS CENTRE, ORLEANS

3440 FRANK KENNEY ROAD

DRAWING:

POST DEVELOPMENT DRAINAGE AND EROSION AND SEDIMENT CONTROL PLAN

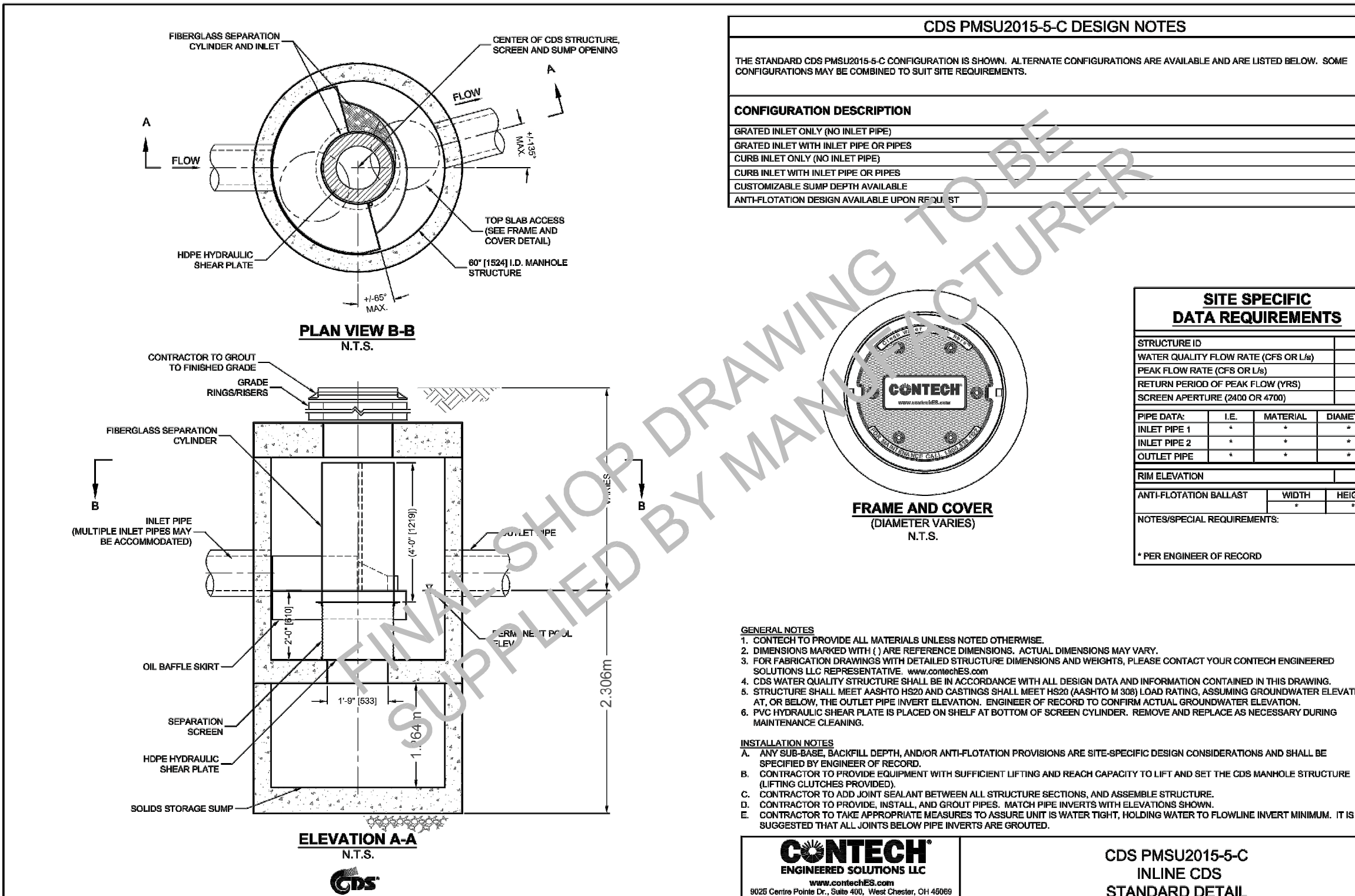
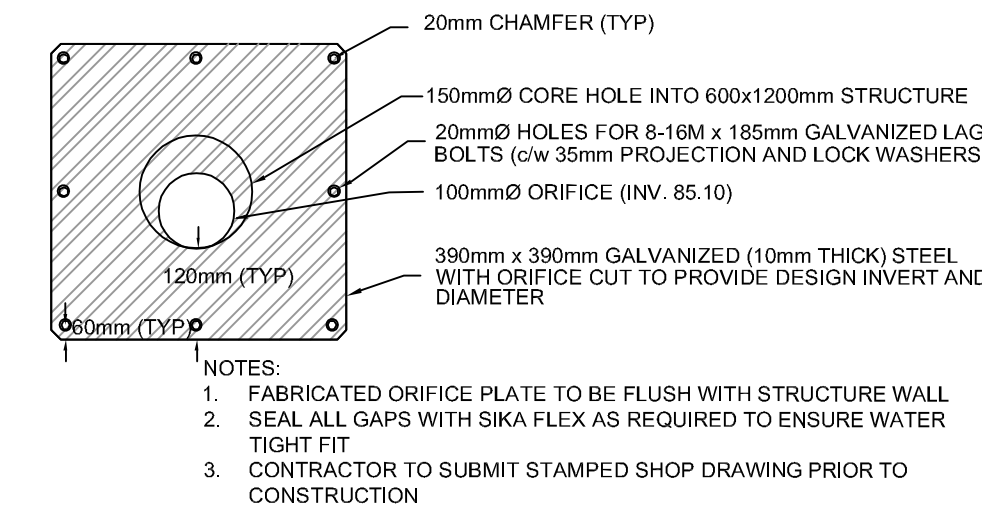
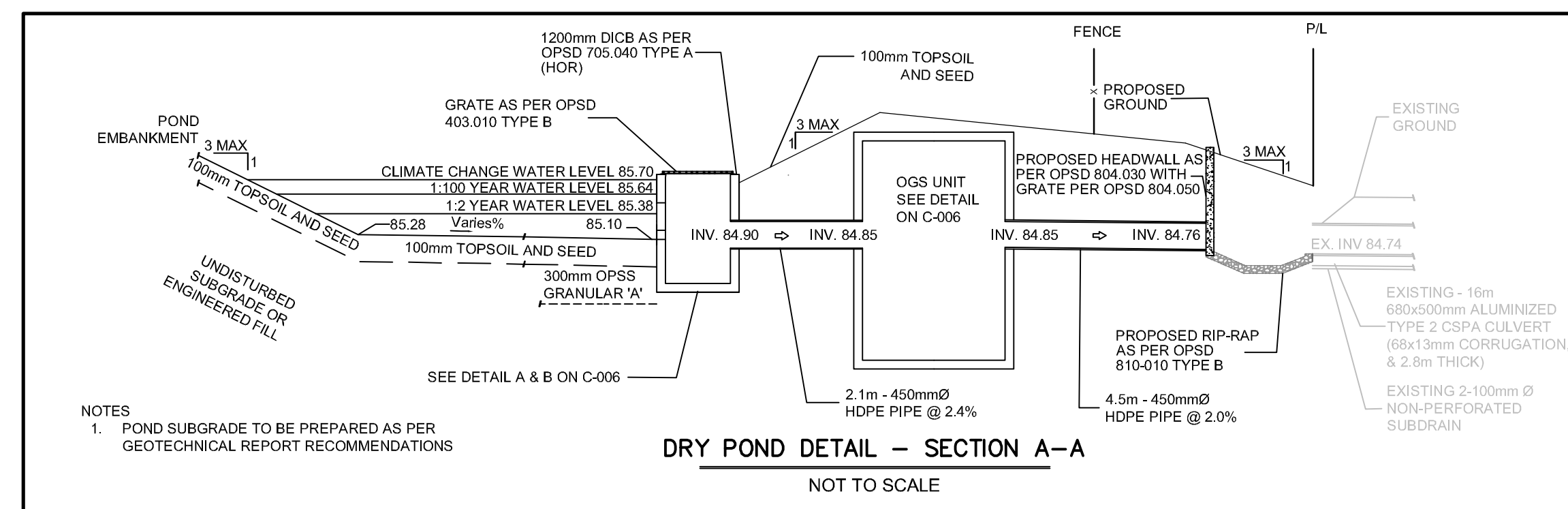
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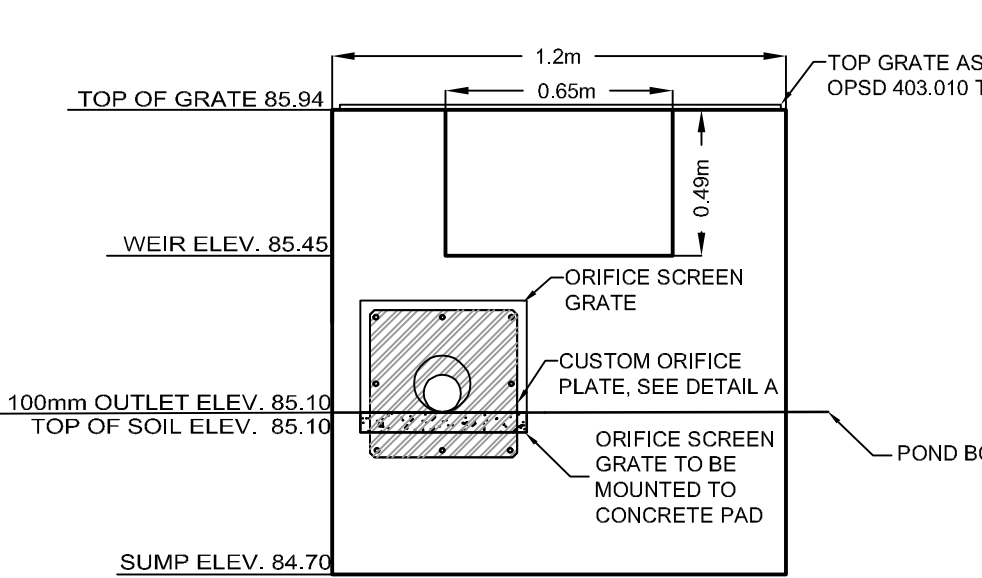
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GENERAL CONSTRUCTION NOTES

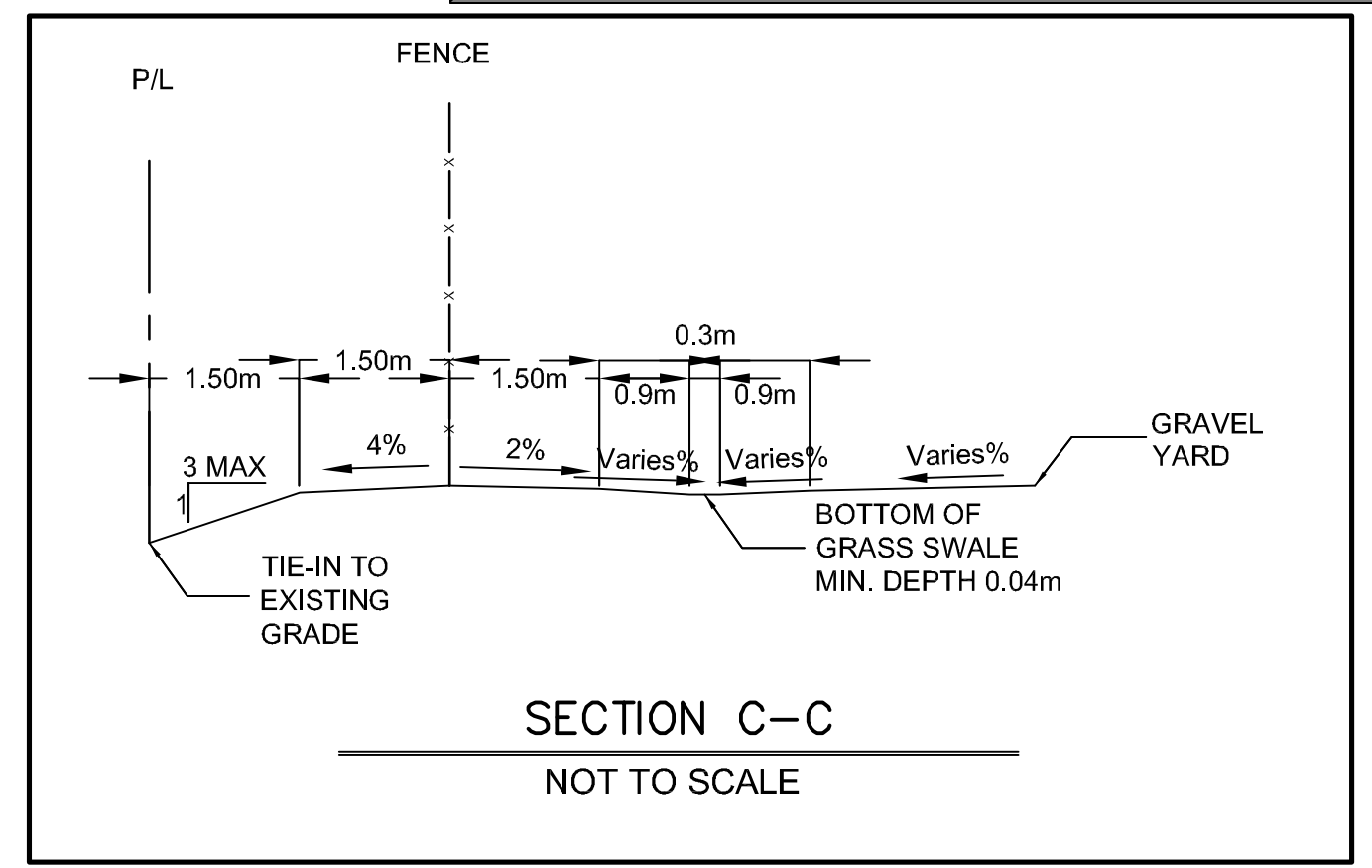
- CONTRACTOR TO CARRY OUT WORKS PER THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS AND SPECIFICATIONS AND PER THE ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR TO READ THE SITE'S SERVICING DESIGN PLAN IN CONJUNCTION WITH THE LATEST SITE SERVICING REPORT, PREPARED BY J.L. RICHARDS & ASSOCIATES LIMITED, FOR THE PROPOSED CONSTRUCTION WORKS.
- ALL SOIL DISPOSAL FROM SITE TO BE COORDINATED WITH THE HYDRO ONE ENVIRONMENTAL TEAM.
- THE NOMINAL DIAMETER OF PIPES ARE REFERRED TO IN PLAN VIEW.
- CONTRACTOR RESPONSIBLE FOR OBTAINING ALL SITE UTILITY LOCATES BEFORE CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION AND ANY ASSOCIATED WORKS TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA.
- SEPTIC SYSTEM (TREATMENT TANKS & LEACHING BED) PER WSP GOLDER'S - NEW SEPTIC DESIGN - TECHNICAL MEMORANDUM (SEPT. 2022).
- ALL CONNECTIONS TO EXISTING WELL TO BE IN ACCORDANCE WITH THE CITY OF OTTAWA DESIGN GUIDELINES. CONTRACTOR TO PROVIDE EXCAVATION BACKFILLING, COMPACTION AND REINSTATEMENTS, IN ACCORDANCE WITH THE LATEST GEOTECHNICAL INVESTIGATION PREPARED BY GOLDER ASSOCIATES FOR THE SITE.
- CONTRACTOR RESPONSIBLE FOR DETERMINING, VIA EXCAVATION, THE EXACT LOCATION AND ELEVATION OF THE EXISTING UNDERGROUND UTILITIES AND STRUCTURES AS REQUIRED FOR ALL PROPOSED CONNECTIONS, RELOCATIONS, AND BLANKINGS.
- FOR ALL PROPOSED CONNECTION POINTS (IF ANY), THE CONTRACTOR IS RESPONSIBLE FOR THE REINSTATEMENT OF ALL SURFACES TO EXISTING CONDITIONS OR BETTER. PAVEMENT STRUCTURE RESTORATION (FRANK KENNEY ROAD) SHALL BE PER CITY OF OTTAWA STANDARDS. THE THICKNESS OF GRANULAR AND ASPHALT LAYERS SHALL MATCH EXISTING.
- CONTRACTOR RESPONSIBLE FOR VERIFYING THAT THE SITE BENCHMARK(S) HAVE NOT BEEN ALTERED OR DISTURBED AND THAT THEIR RELATIVE ELEVATION(S) AND DESCRIPTION(S) AGREE WITH THE INFORMATION DEPICTED ON THE PLAN.
- CONTRACTOR TO MATCH EXISTING ELEVATIONS AT PROPERTY LIMITS AND ENSURE POSITIVE DRAINAGE TOWARDS A SUITABLE OUTLET, WHETHER INDICATED OR NOT ON THE PLANS.
- CONTRACTOR TO PROVIDE ALL PAVEMENT MARKINGS AS SHOWN, INCLUDING HANDICAPPED PARKING SYMBOLS.
- ALL GROUNDWATER PUMPED FROM THE SITE TO BE METERED AND A PERMIT TO TAKE WATER OBTAINED AS APPLICABLE.
- PAVEMENT DESIGN TO BE PER THE SITE'S GEOTECHNICAL INVESTIGATION REPORT (SEPT. 2022), PREPARED BY GOLDER ASSOCIATES LTD. (21493887):
 LIGHT-DUTY PAVEMENT STRUCTURE (CAR PARKING AREAS):
 50 MM - H.L. 3 SURFACE COURSE OR 12.5 SUPERPAVE
 150 MM - BASE - OPSS GRANULAR A
 450 MM - SUBBASE - OPSS GRANULAR B TYPE II
 HEAVY-DUTY PAVEMENT STRUCTURE (ACCESS LANES AND PAVED TRUCK TRAFFIC AREAS):
 40 MM - H.L. 3 SURFACE COURSE OR 12.5 SUPERPAVE
 50 MM - H.L. 8 BINDER COURSE OR 19.0 SUPERPAVE
 150 MM BASE - OPSS GRANULAR A
 450 MM SUBBASE - OPSS GRANULAR B TYPE II
 GRANULAR TRAFFIC AREAS (UNPAVED ACCESS LANES AND TRUCK TRAFFIC AREAS):
 250 MM BASE - OPSS GRANULAR A
 450 MM SUBBASE - OPSS GRANULAR B TYPE II
- CONTRACTOR TO ENSURE ALL PROPOSED PAVEMENT AREAS ARE PREPARED PER THE SITE'S GEOTECHNICAL INVESTIGATION RECOMMENDATIONS AND ALL TOPSOIL AND OTHER UNSUITABLE FILL (FILLS CONTAINING ORGANIC MATTER) ARE EXCAVATED FROM THESE SURFACES.
- CONTRACTOR TO ENSURE PROPOSED PAVEMENT AREAS SUBGRADE HAS BEEN ACCEPTABLY PREPARED, WHERE THE TRENCH BACKFILL AND GRADE RAISE FILL HAVE BEEN ADEQUATELY COMPACTED TO THE REQUIRED DENSITY AND THE SUBGRADE SURFACE NOT DISTURBED BY CONSTRUCTION OPERATIONS OR PRECIPITATION. DEPENDING ON THE ACTUAL CONDITIONS OF THE PAVEMENT SUBGRADE AT THE TIME OF CONSTRUCTION, IT MAY BE NECESSARY TO INCREASE THE THICKNESS OF THE SUBBASE AND/OR TO PLACE A WOVEN GEOTEXTILE BENEATH THE GRANULAR MATERIALS.
- CONTRACTOR TO ENSURE GRANULAR BASE AND SUBBASE MATERIALS ARE UNIFORMLY COMPACTED TO AT LEAST 100% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY USING SUITABLE VIBRATORY COMPACTION EQUIPMENT. THE ASPHALTIC CONCRETE IS TO BE COMPACTED PER TABLE 9 OF OPSS 310.
- REQUIREMENT FOR ADDITIONAL GRANULAR 'B' AND/OR GEOTEXTILE TO BE CONFIRMED ON-SITE BY GEOTECHNICAL ENGINEER
- CURBS TO BE BARRIER TYPE PER CITY OF OTTAWA STANDARD SC1.1.
- THE EXISTING ON-SITE MODULAR OFFICE AND ASSOCIATED SERVICES (WELL, SEPTIC TANK, ETC.) TO REMAIN IN SERVICE UNTIL THE PROPOSED OFFICE IS COMPLETED. ONCE THE NEW OFFICE IS OPERATIONAL, THE CONTRACTOR SHALL COORDINATE THE MODULAR REMOVAL AND COMPLETE THE REMAINING PROPOSED WORKS (FENCE, LANDSCAPE, ETC.).
- CONTRACTOR RESPONSIBLE TO DEVELOP DEMOLITION AND TEMPORARY SERVICING STAGING PLAN FOR APPROVAL BY HONI PRIOR TO CONTRUCTION
- LINE PAINTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 710.
- ASPHALT LINE PAINTING FOR THE PARKING STALLS AS PER OPSS 1716.
- FENCE TO BE IN ACCORDANCE WITH SPECIFICATION, SEE SPECIFICATIONS UNDER SEPARATE COVER FOR DETAILS.
- WHERE POSSIBLE CONTRACTOR TO RE-USE EXISTING ON SITE JERSEY BARRIER
- PROPOSE CONCRETE BARRIERS PER OPSP 911.14
- CONCRETE WALKWAY TO BE INSTALLED IN ACCORDANCE WITH OPSS 351.
- CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH OPSS 353.
- SUBDRAINS SHALL BE COMPLETE WITH FILTER SOCK AND INSTALLED AS PER OPSS 405.
- CULVERTS SHALL BE INSTALLED IN ACCORDANCE WITH OPSS 421.



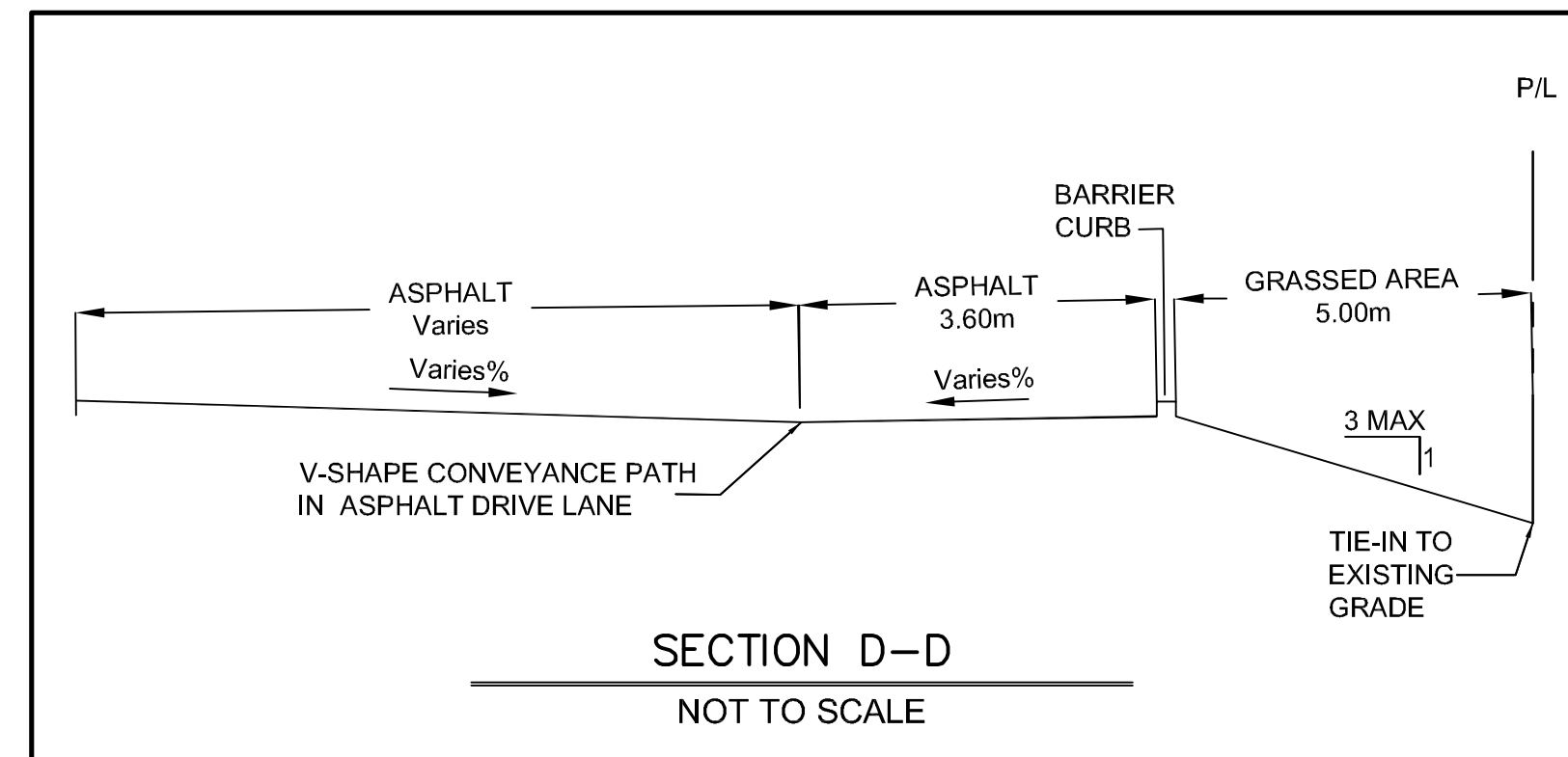
DETAIL A - DRY POND OUTLET STRUCTURE 100mm ORIFICE PLATE DETAIL NOT TO SCALE



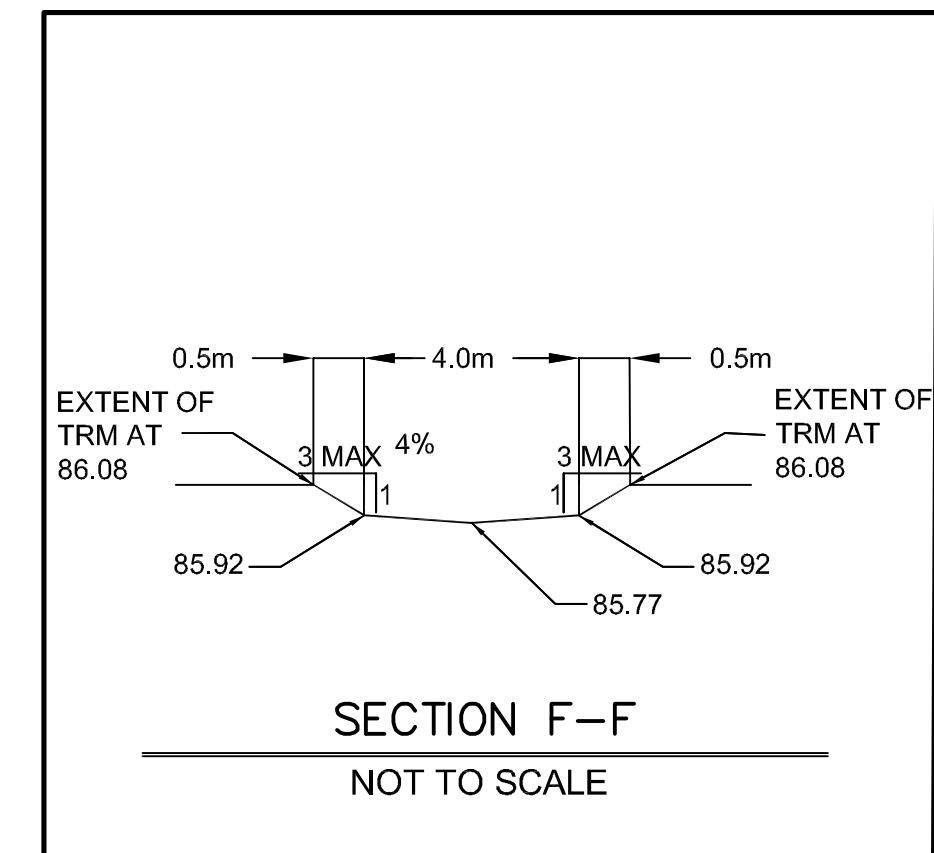
DETAIL B - DRY POND OUTLET STRUCTURE DITCH INLET CATCH BASIN (600mmx1200mm) DETAIL - FRONT VIEW NOT TO SCALE



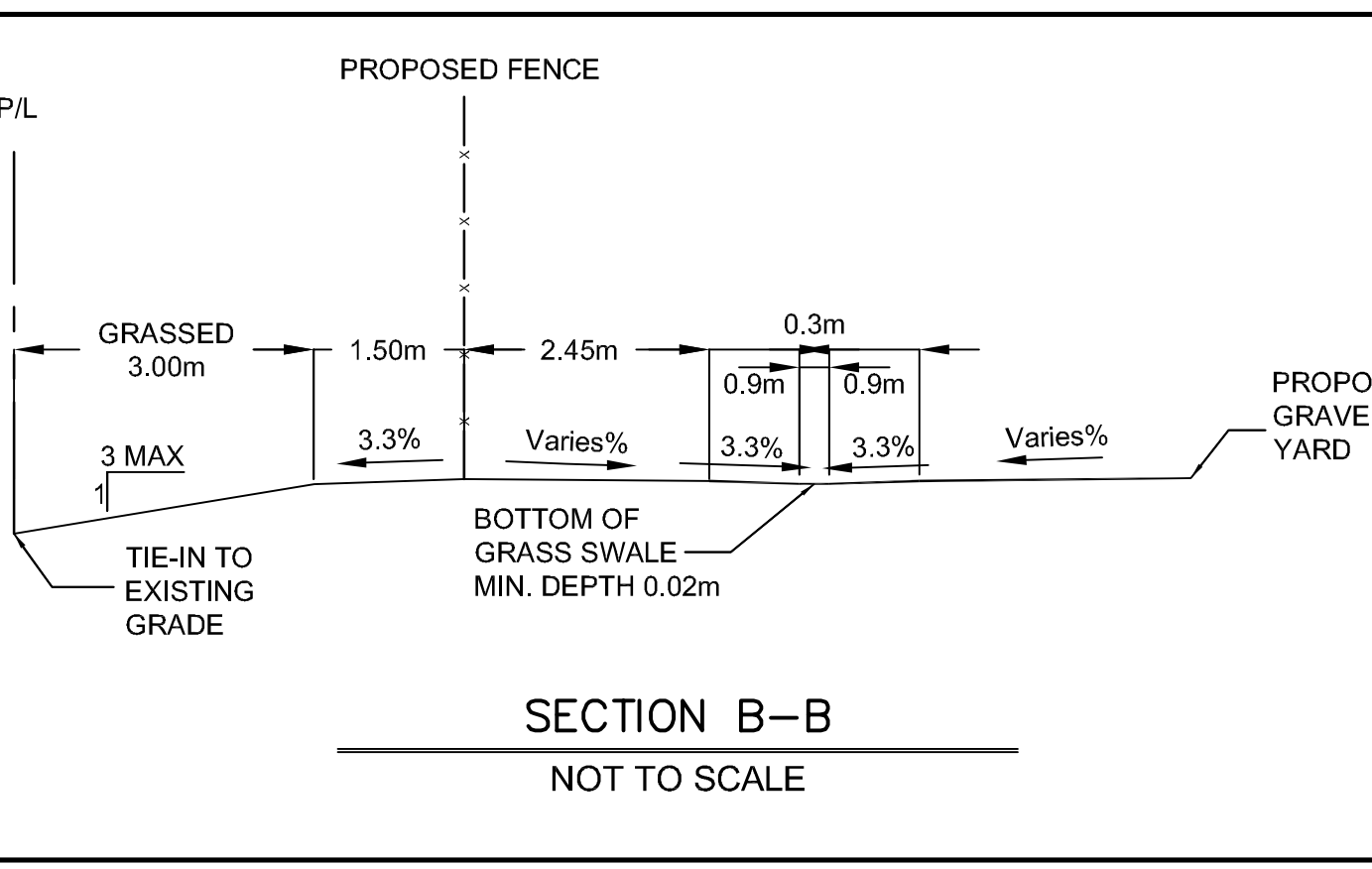
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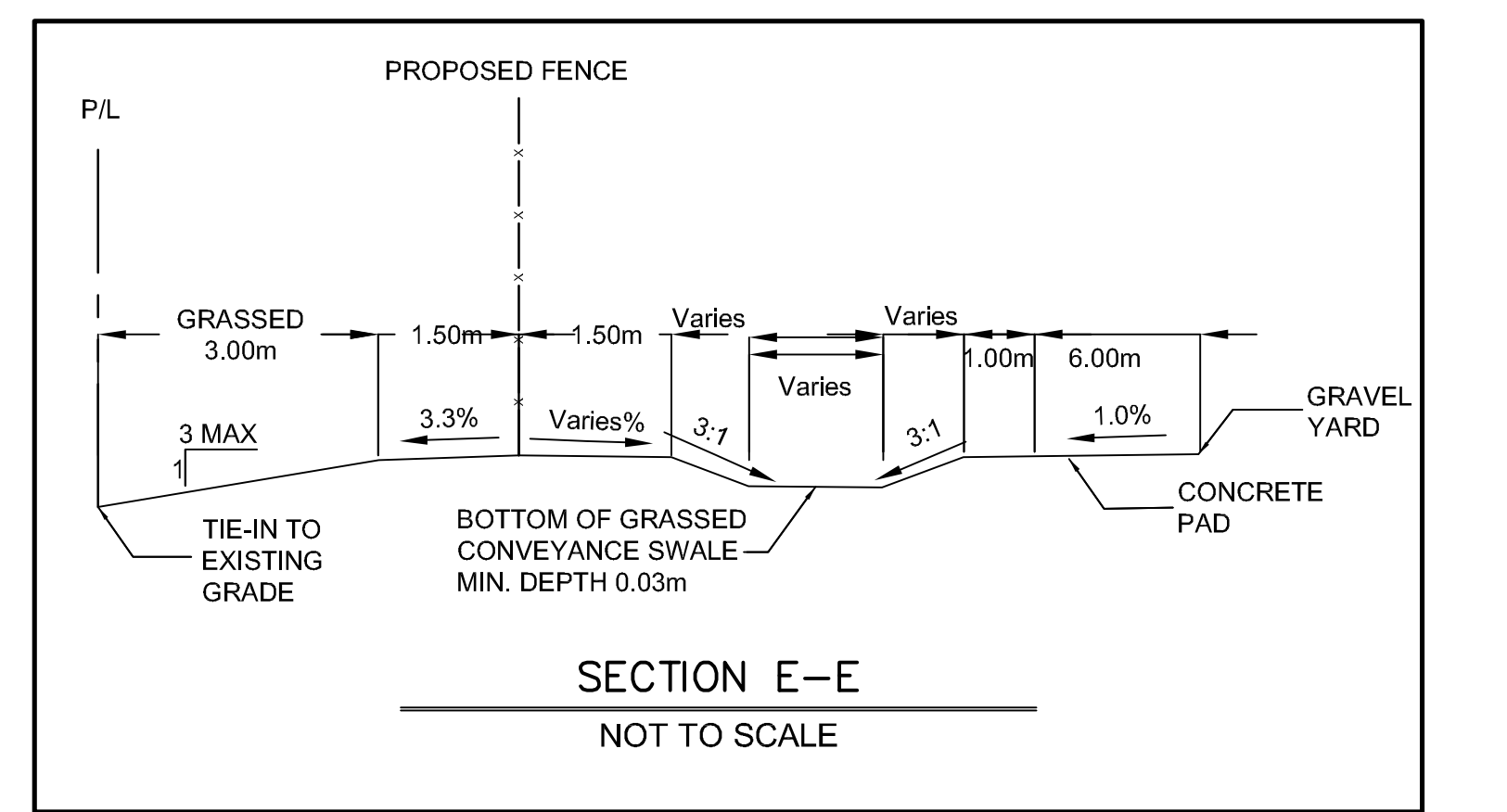
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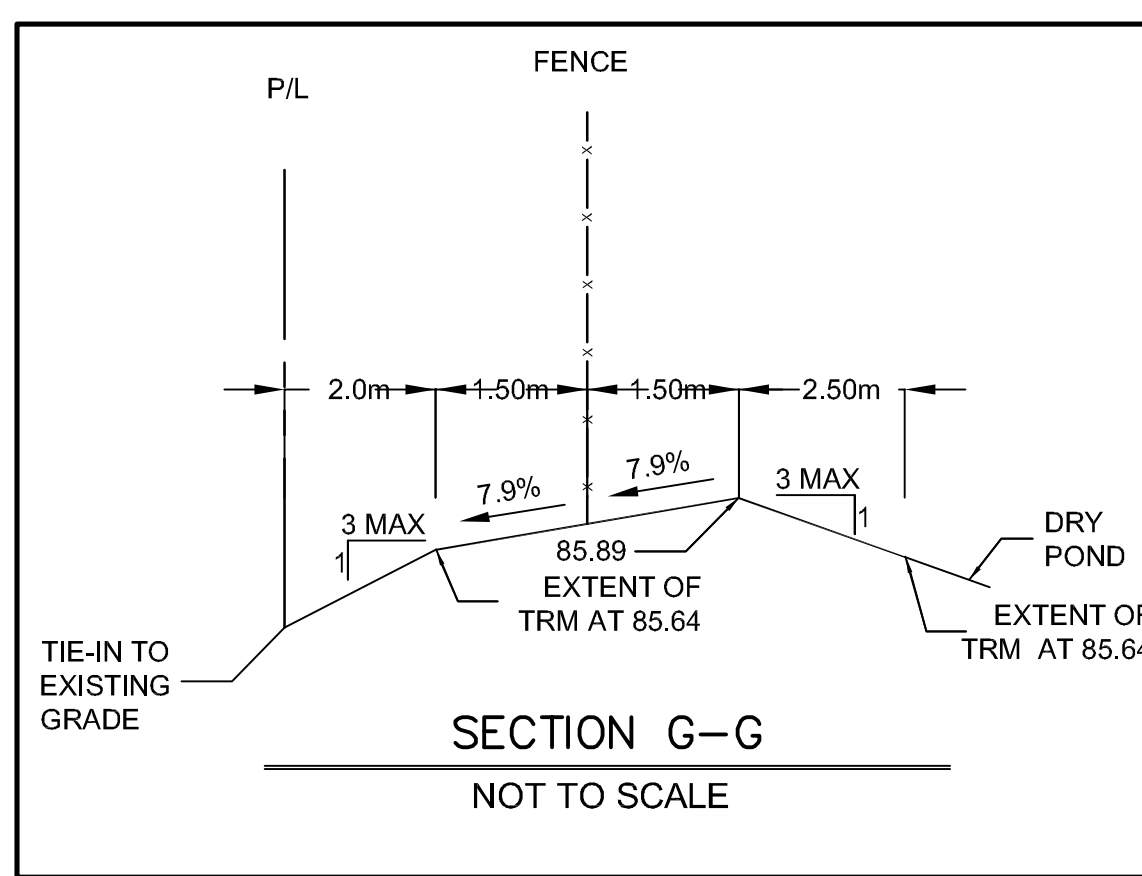
SECTION F-F NOT TO SCALE



SECTION B-B NOT TO SCALE



SECTION E-E NOT TO SCALE



SECTION G-G NOT TO SCALE

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CLIENT:

CONSULTANT:

J.L. Richards ENGINEERS - ARCHITECTS - PLANNERS

PROFESSIONAL STAMP

PROJECT:

HYDRO ONE OPERATIONS CENTRE, ORLEANS

3440 FRANK KENNY ROAD

DRAWING:

DETAILS 1

DESIGN: M.D.

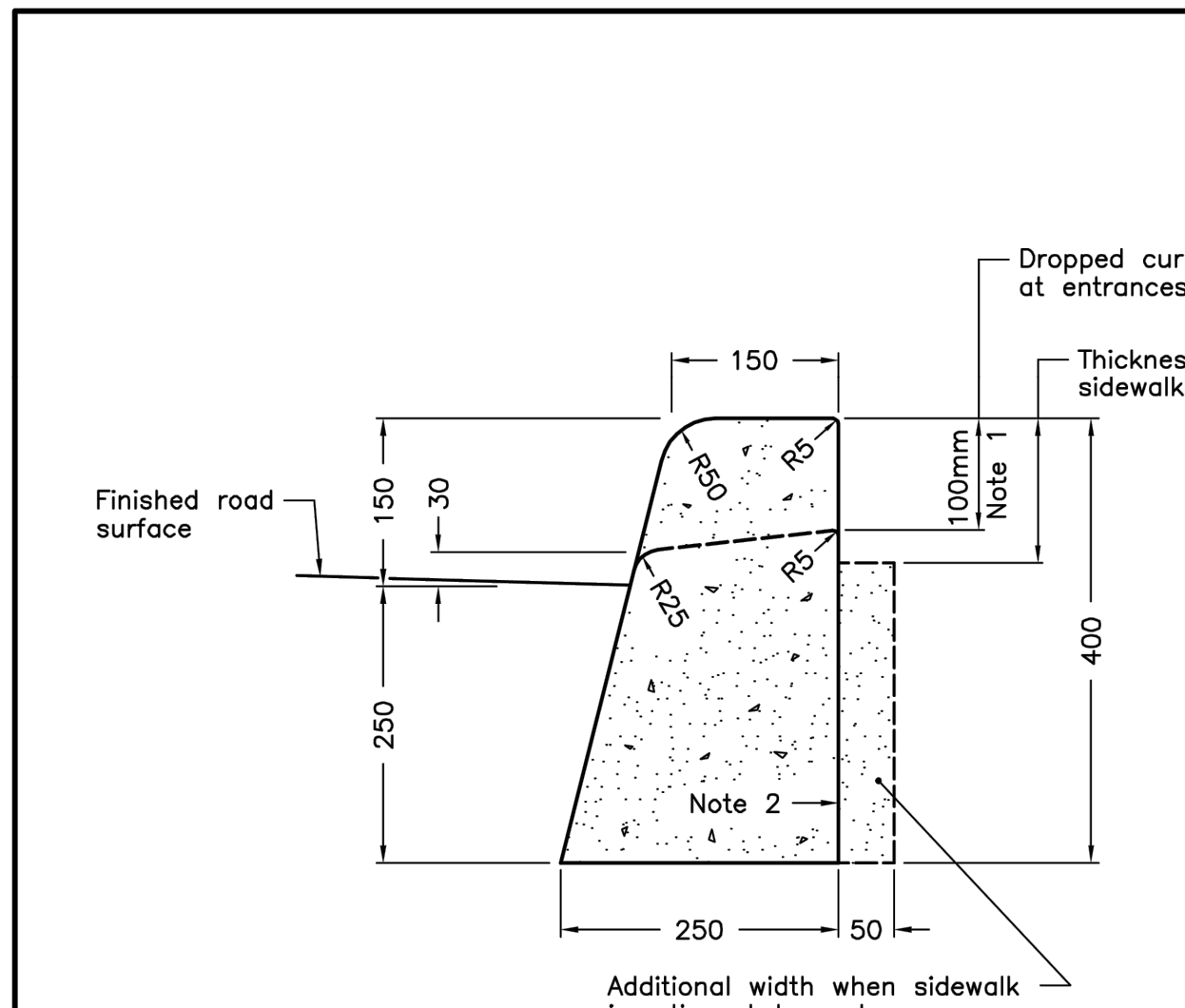
DRAWN: G.C.

CHECKED: D.U.

JLR #: 31500-000

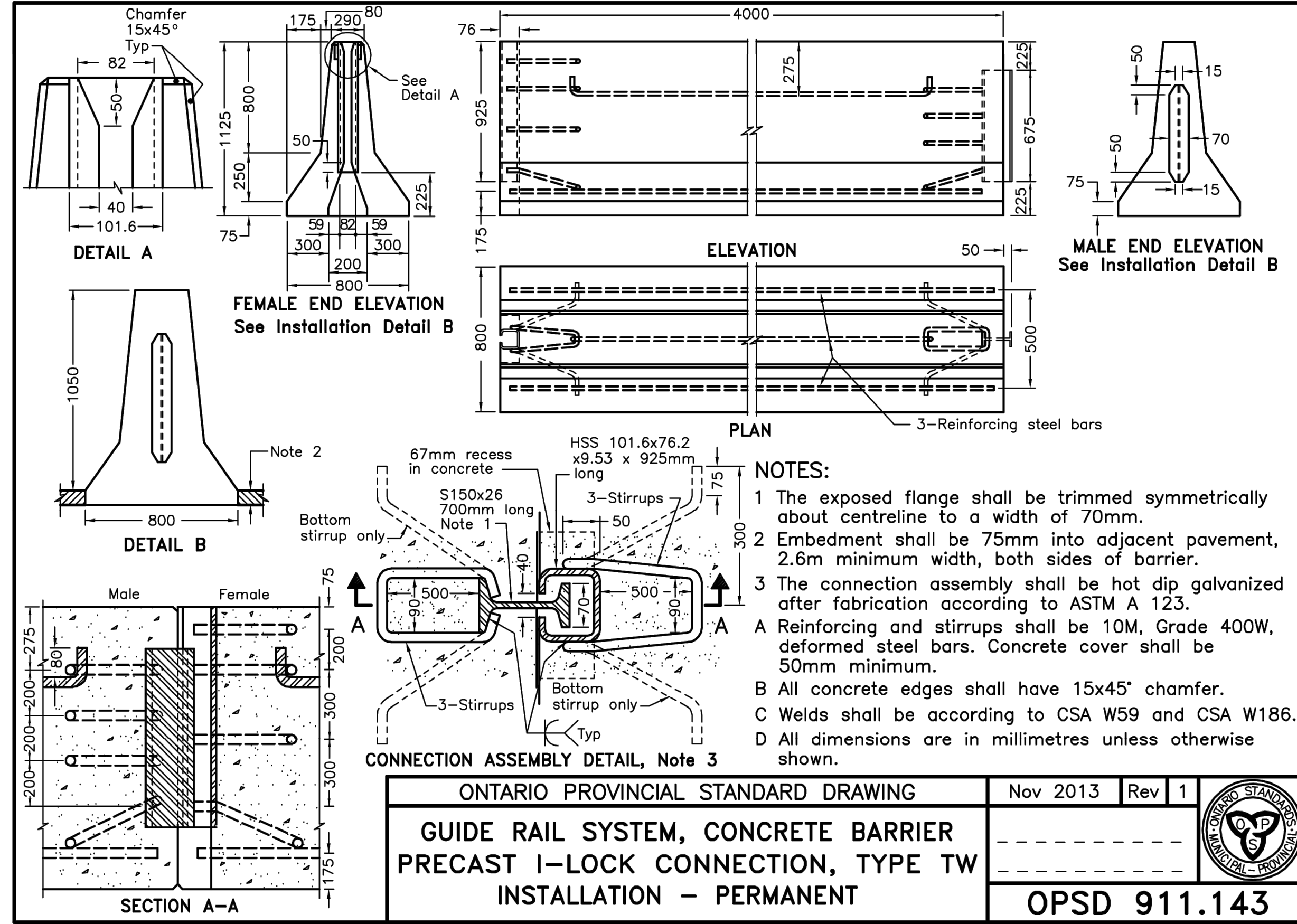
DRAWING #: **C-006**

DATE: December 21, 2022 10:17:00 AM



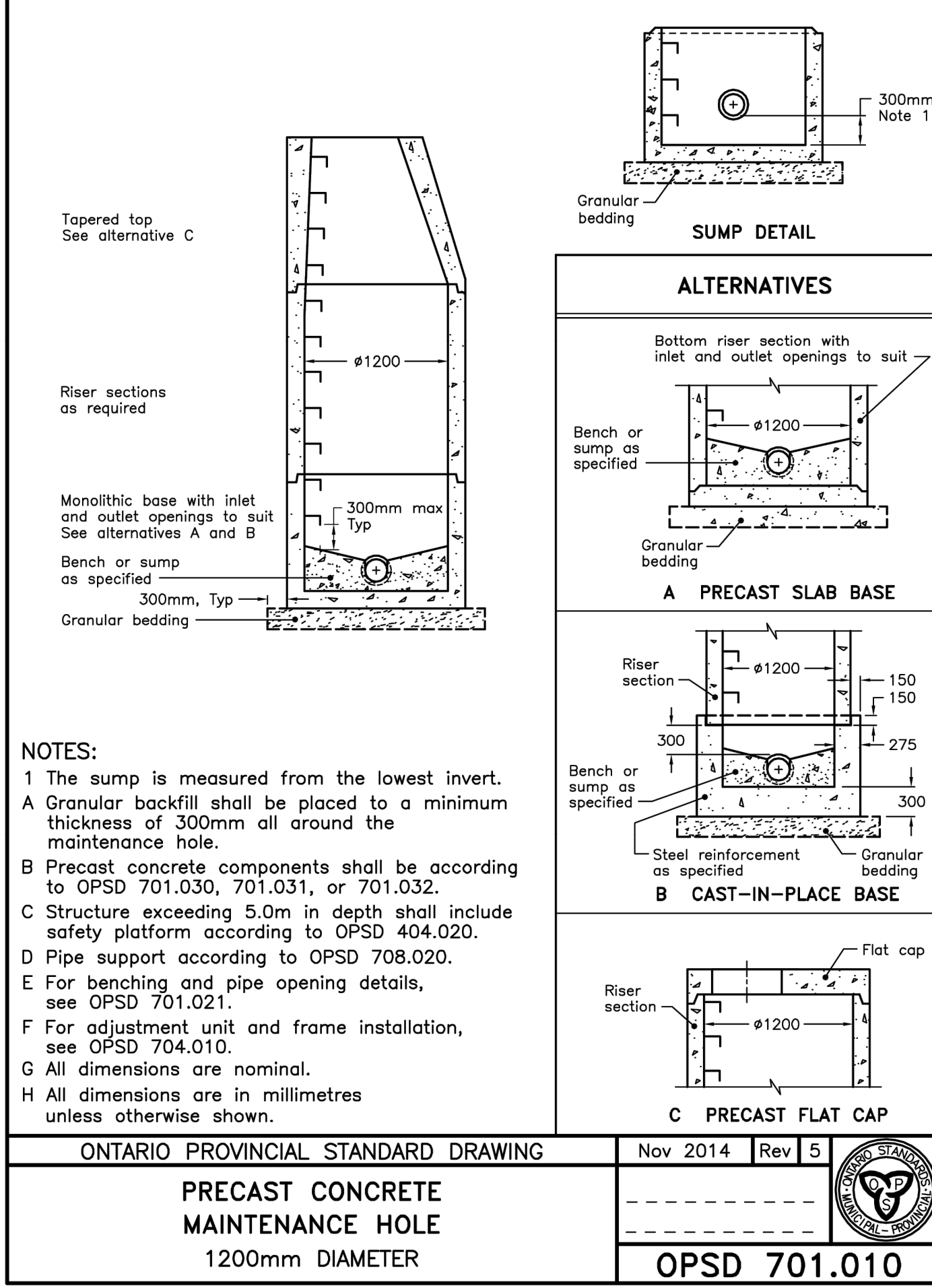
NOTES:
 1 When sidewalk is continuously adjacent, the dropped curb at entrances shall be reduced to 75mm.
 2 For slipforming procedure a 5% batter is acceptable.
 A Treatment at entrances shall be according to OPSD 351.010.
 B Outlet treatment shall be according to the OPSD 610 Series.
 C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
 D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 2
CONCRETE BARRIER CURB		
OPSD 600.		



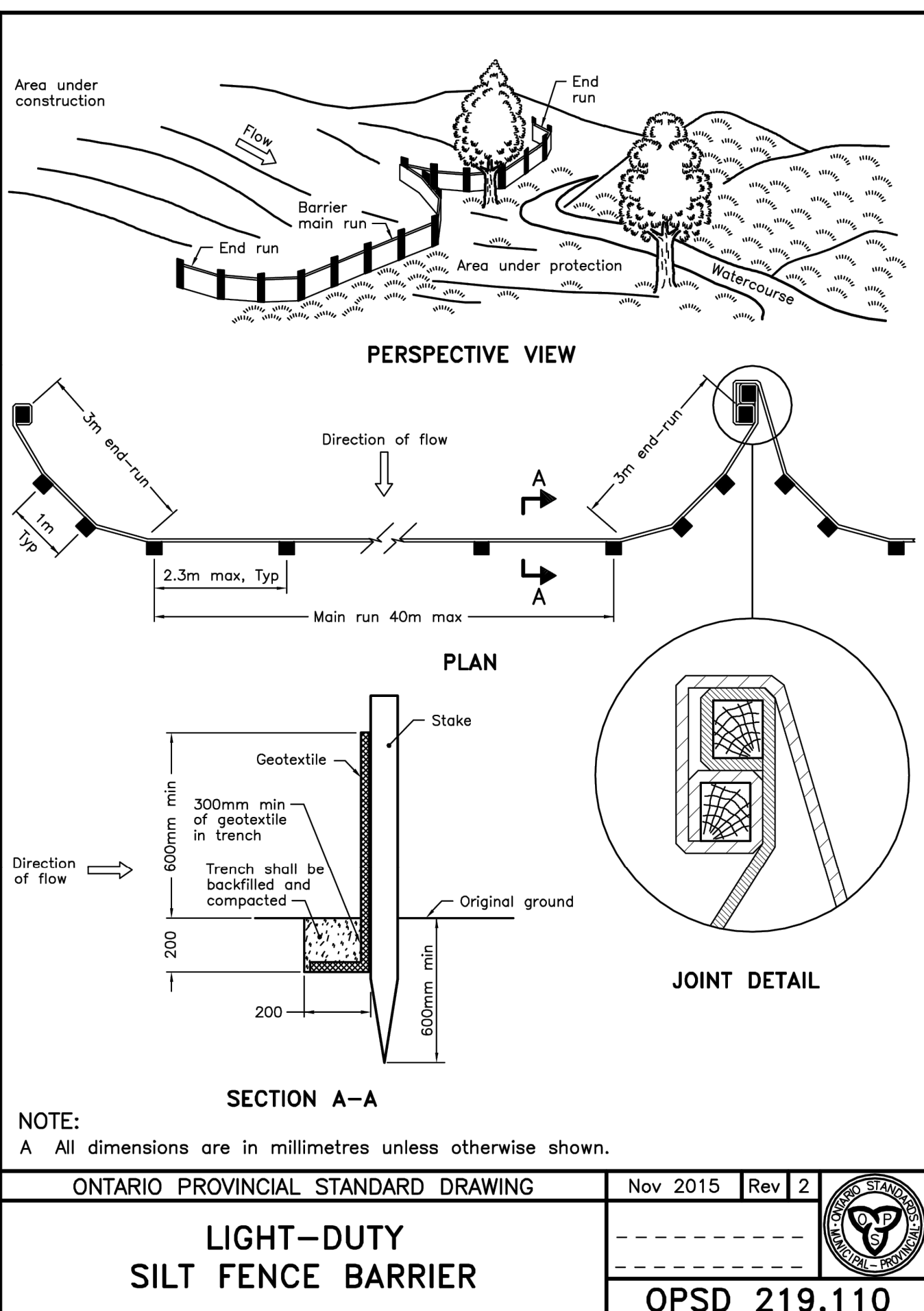
NOTES:
 1 The exposed flange shall be trimmed symmetrically about centreline to a width of 70mm.
 2 Embedment shall be 75mm into adjacent pavement, 2.6m minimum width, both sides of barrier.
 3 The connection assembly shall be hot dip galvanized after fabrication according to ASTM A 123.
 A Reinforcing and stirrups shall be 10M, Grade 400W, deformed steel bars. Concrete cover shall be 50mm minimum.
 B All concrete edges shall have 15x45° chamfer.
 C Welds shall be according to CSA W59 and CSA W186.
 D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2013	Rev 1
GUIDE RAIL SYSTEM, CONCRETE BARRIER PRECAST I-LOCK CONNECTION, TYPE TW INSTALLATION - PERMANENT		
OPSD 911.143		

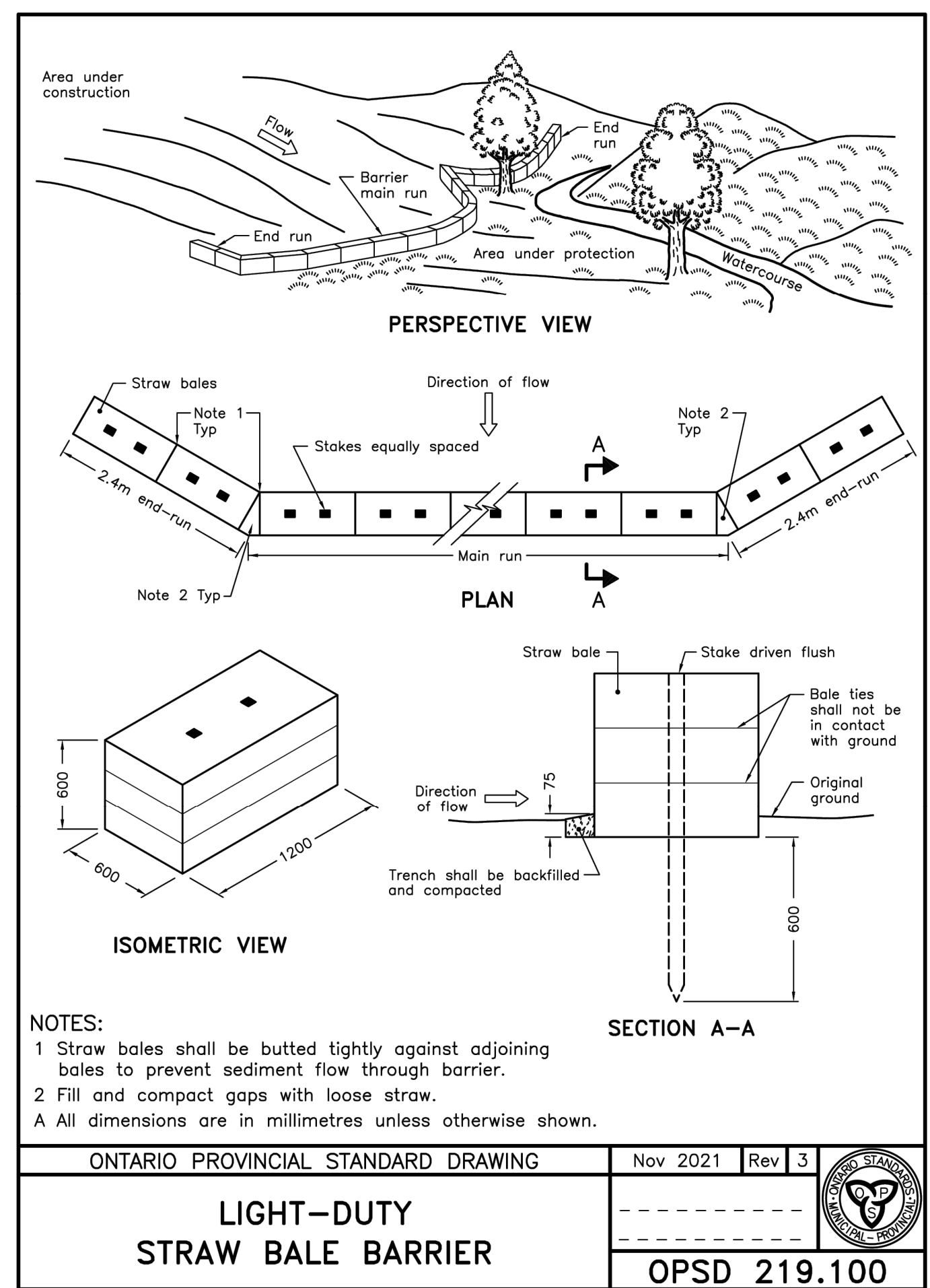


NOTES:
 1 The sump is measured from the lowest invert.
 A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
 B Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
 C Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
 D Pipe support according to OPSD 708.020.
 E For benching and pipe opening details, see OPSD 701.021.
 F For adjustment unit and frame installation, see OPSD 704.010.
 G All dimensions are nominal.
 H All dimensions are in millimetres unless otherwise shown.

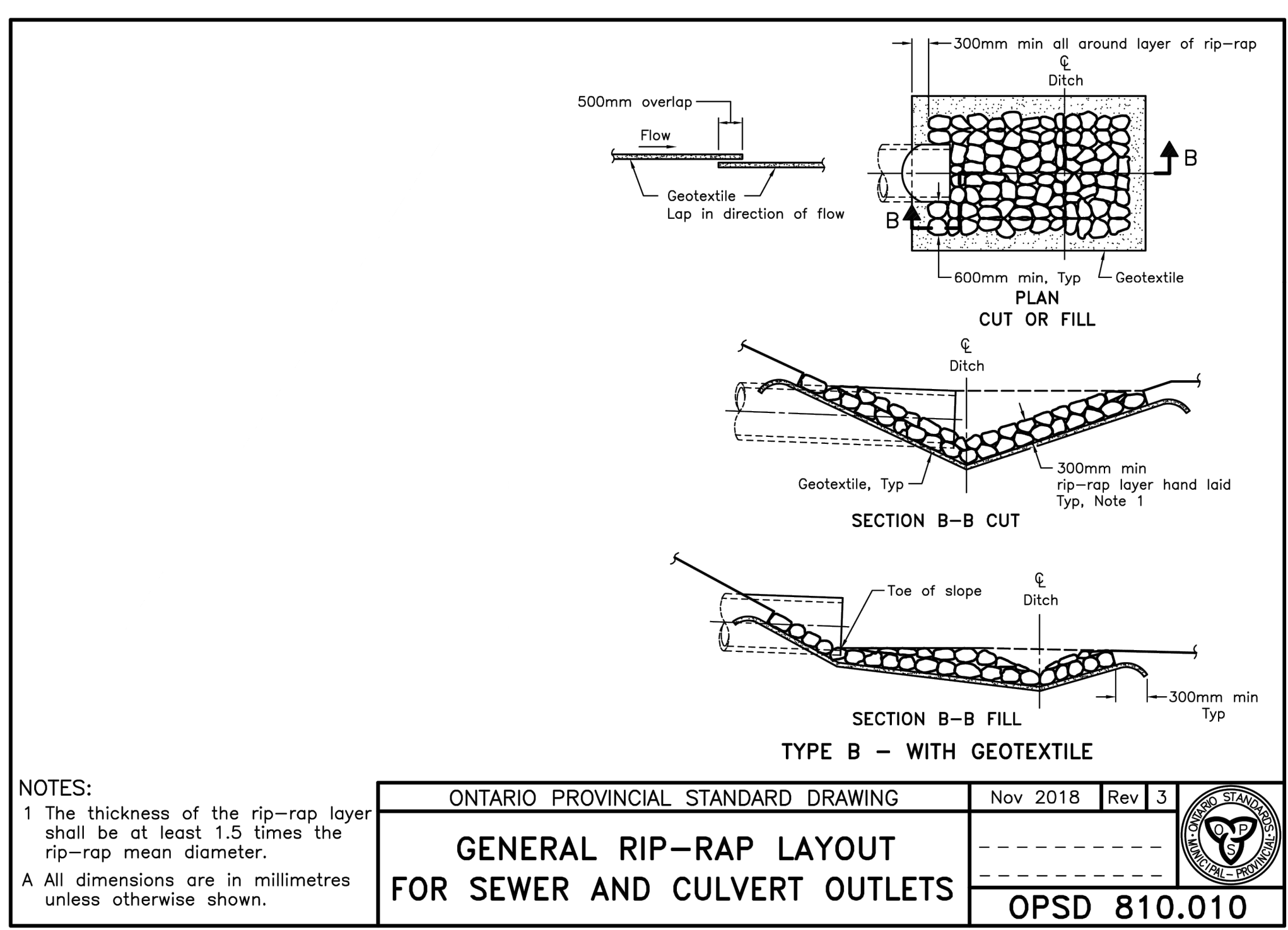
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 5
PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER		
OPSD 701.010		



ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 2
LIGHT-DUTY SILT FENCE BARRIER		
OPSD 219.110		



ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2021	Rev 3
LIGHT-DUTY STRAW BALE BARRIER		
OPSD 219.100		



ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2018	Rev 3
GENERAL RIP-RAP LAYOUT FOR SEWER AND CULVERT OUTLETS		
OPSD 810.010		

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00	ISSUED FOR CLIENT REVIEW	04/04/22

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CLIENT:
hydro one BGIS

CONSULTANT:
JLR J.L. Richards
 ENGINEERS-ARCHITECTS-PLANNERS

CONSULTANT:
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PROJECT:
**HYDRO ONE OPERATIONS CENTRE,
ORLEANS**
 3440 FRANK KENNY ROAD

DRAWING:
DETAILS 2

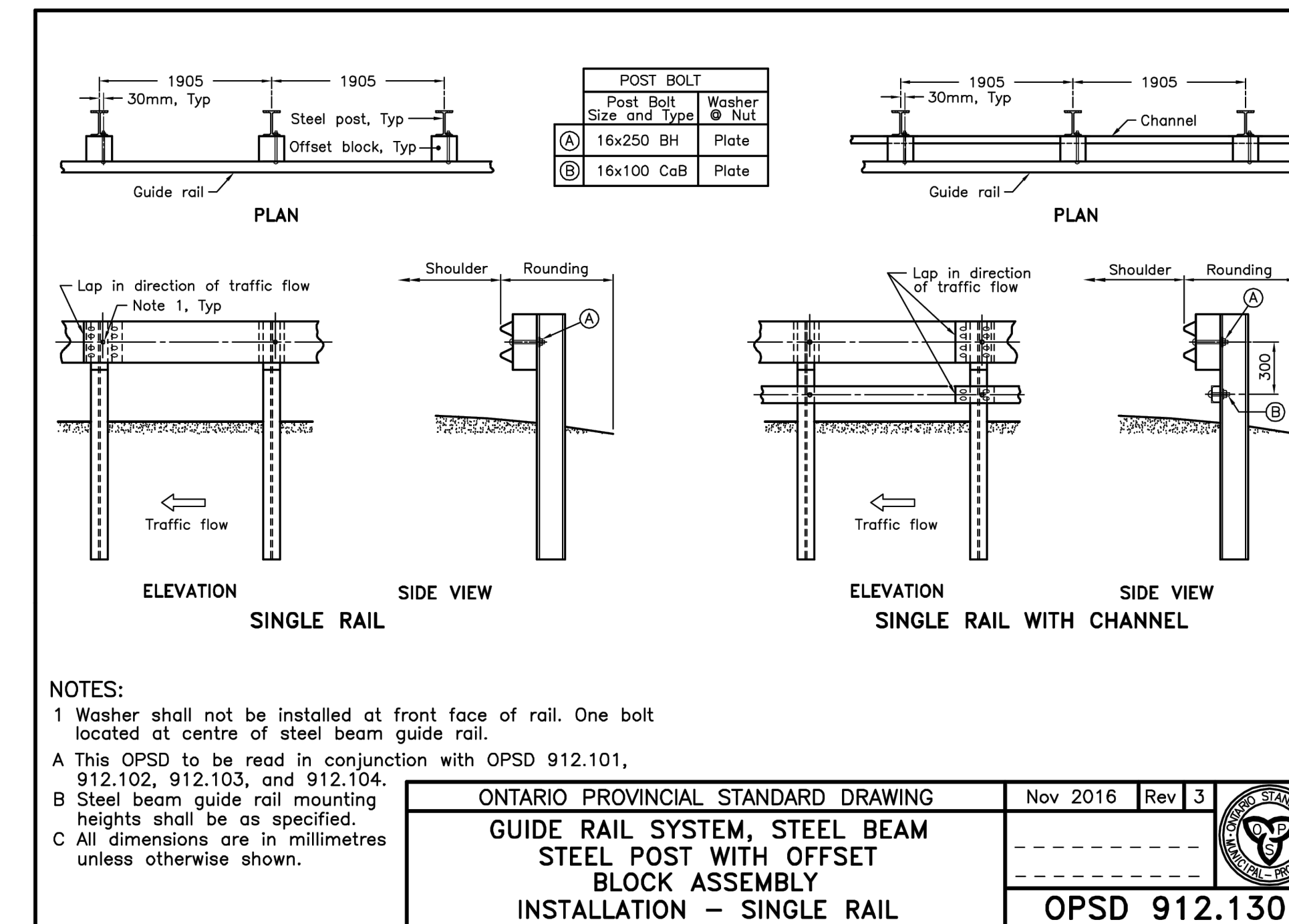
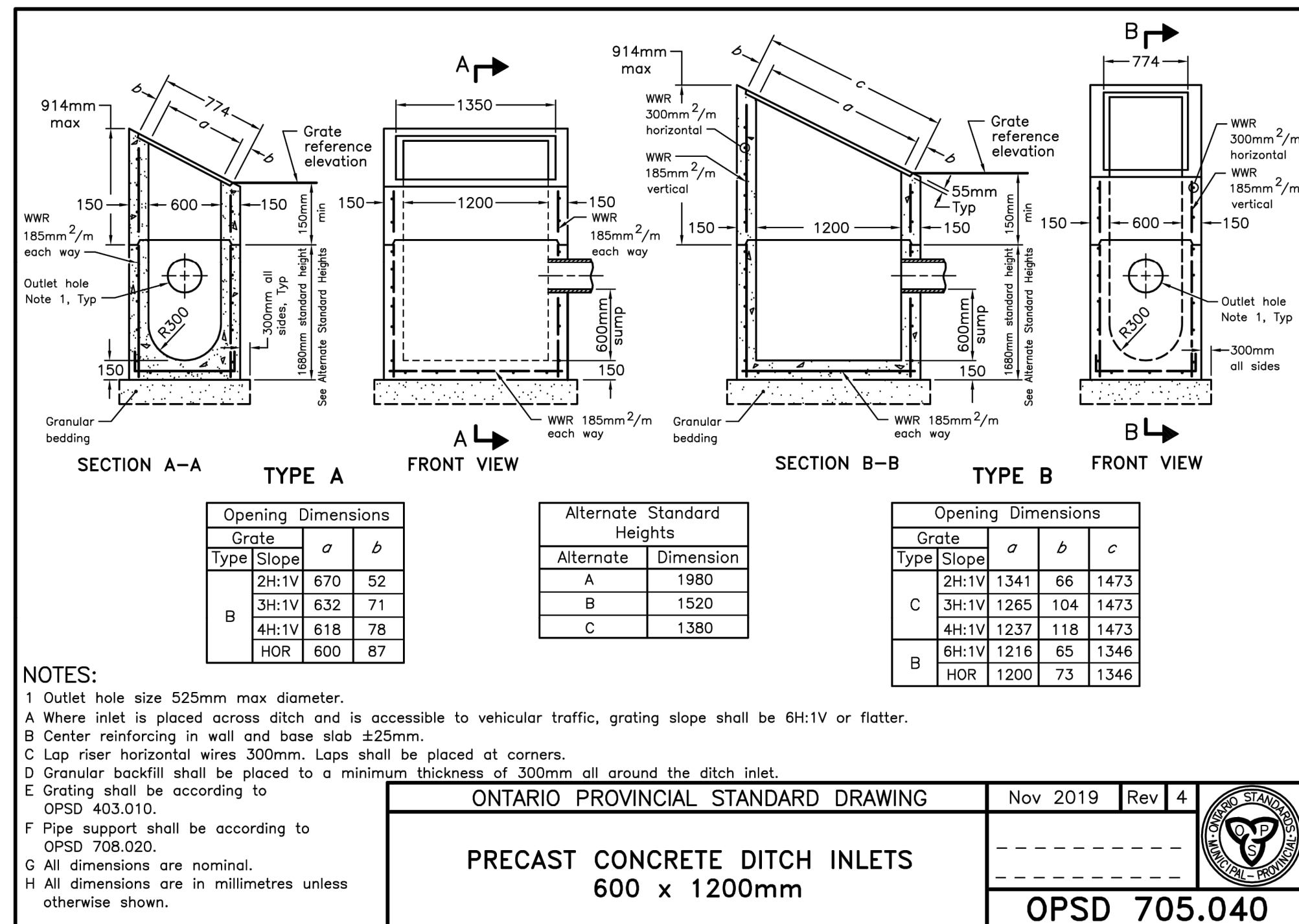
DESIGN: M.D.
 DRAWN: G.C.
 CHECKED: D.U.
 JLR #: 31500-000

C-007

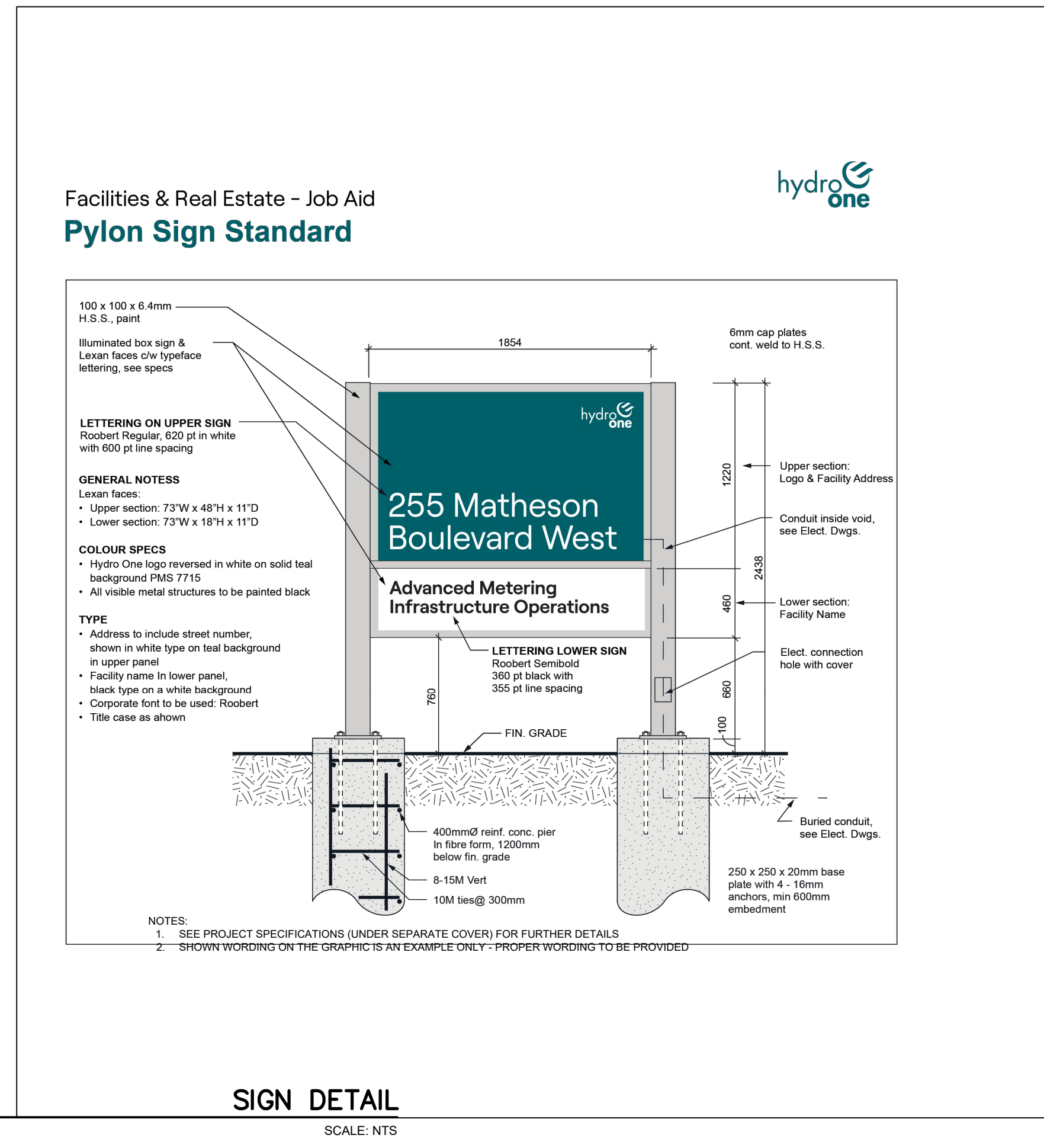
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PLOT DATE: December 21, 2022 10:24 AM



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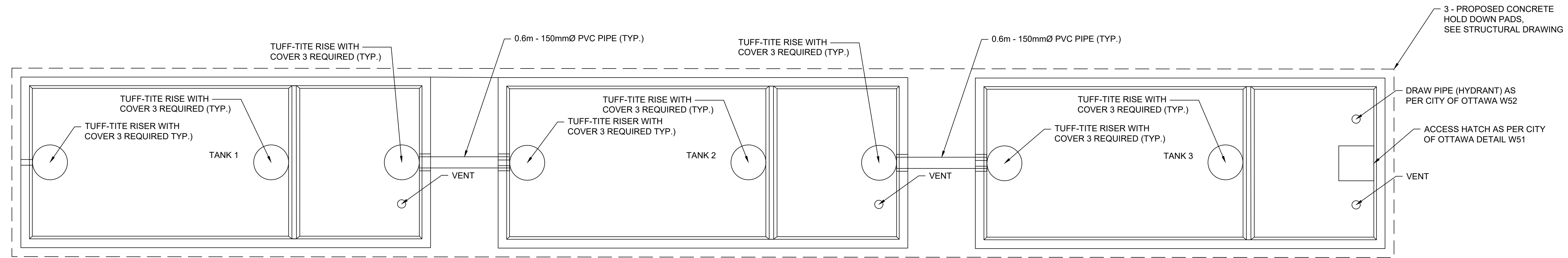
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PROJECT:
HYDRO ONE OPERATIONS CENTRE, ORLEANS
 3440 FRANK KENNY ROAD

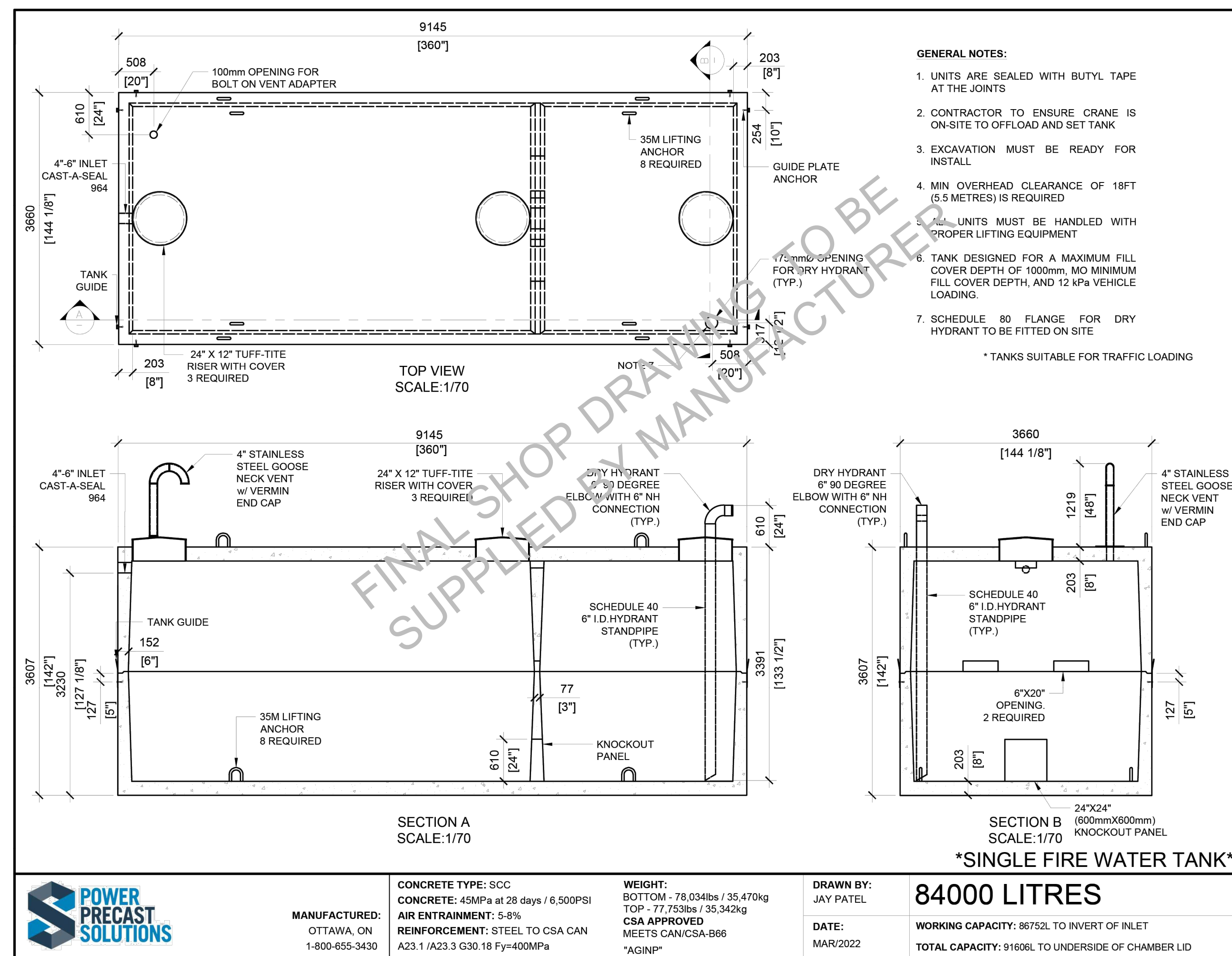
DRAWING:
DETAILS 3

DESIGN:	M.D.	DRAWING #:	C-008
DRAWN:	G.C.		
CHECKED:	D.U.		
JLR #:	31500-000		

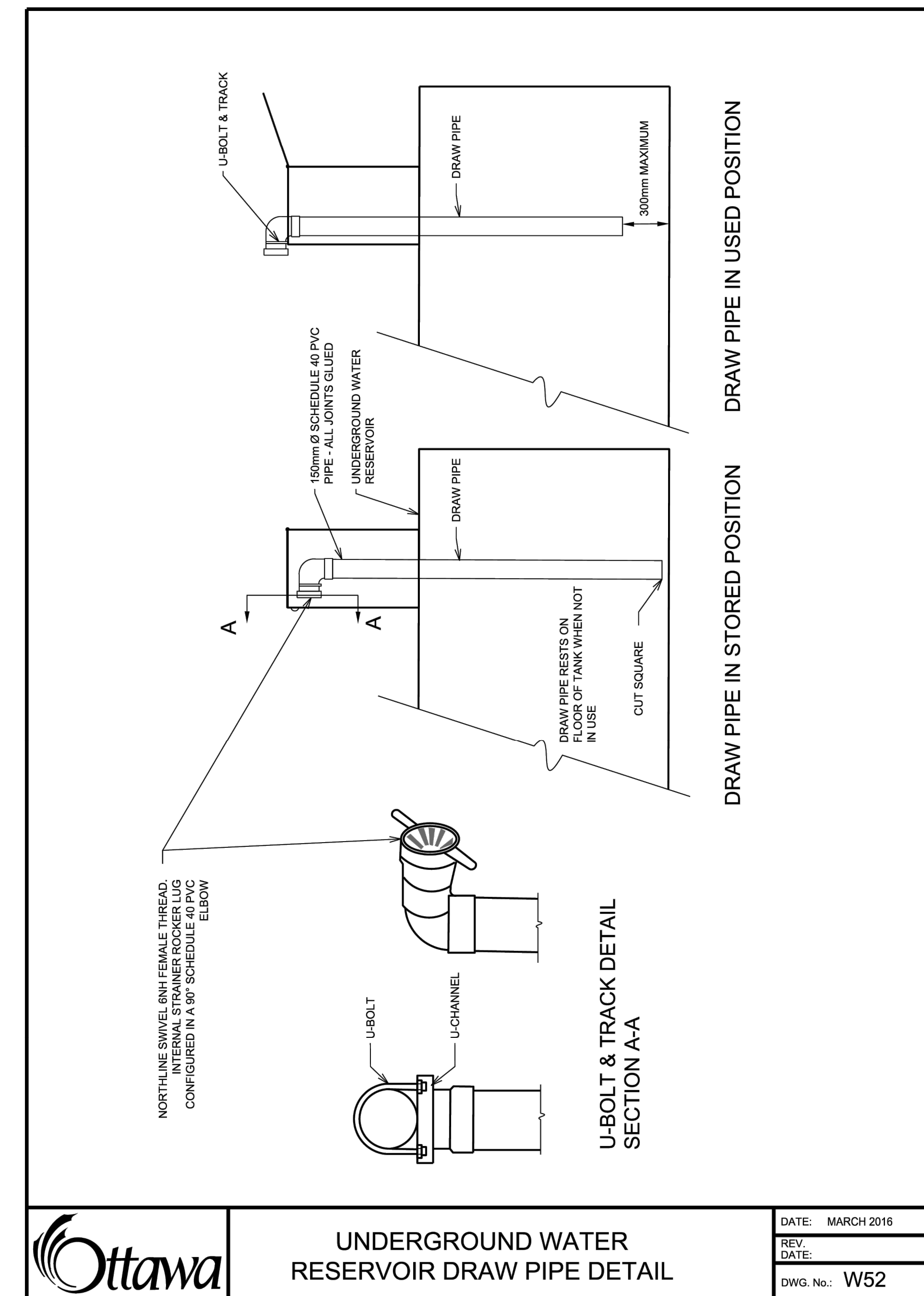
PLOT DATE: December 21, 2022 10:28 AM



END TO END CONNECTION- 3 TANKS
NOT TO SCALE



- GENERAL NOTES:**
1. UNITS ARE SEALED WITH BUTYL TAPE AT THE JOINTS
 2. CONTRACTOR TO ENSURE CRANE IS ON-SITE TO OFFLOAD AND SET TANK
 3. EXCAVATION MUST BE READY FOR INSTALL
 4. MIN OVERHEAD CLEARANCE OF 18FT (5.5 METRES) IS REQUIRED
 5. UNITS MUST BE HANDLED WITH PROPER LIFTING EQUIPMENT
 6. TANK DESIGNED FOR A MAXIMUM FILL COVER DEPTH OF 1000mm, 100 MINIMUM FILL COVER DEPTH, AND 12 KPa VEHICLE LOADING.
 7. SCHEDULE 80 FLANGE FOR DRY HYDRANT TO BE FITTED ON SITE
- * TANKS SUITABLE FOR TRAFFIC LOADING



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HYDRO ONE OPERATIONS CENTRE, ORLEANS

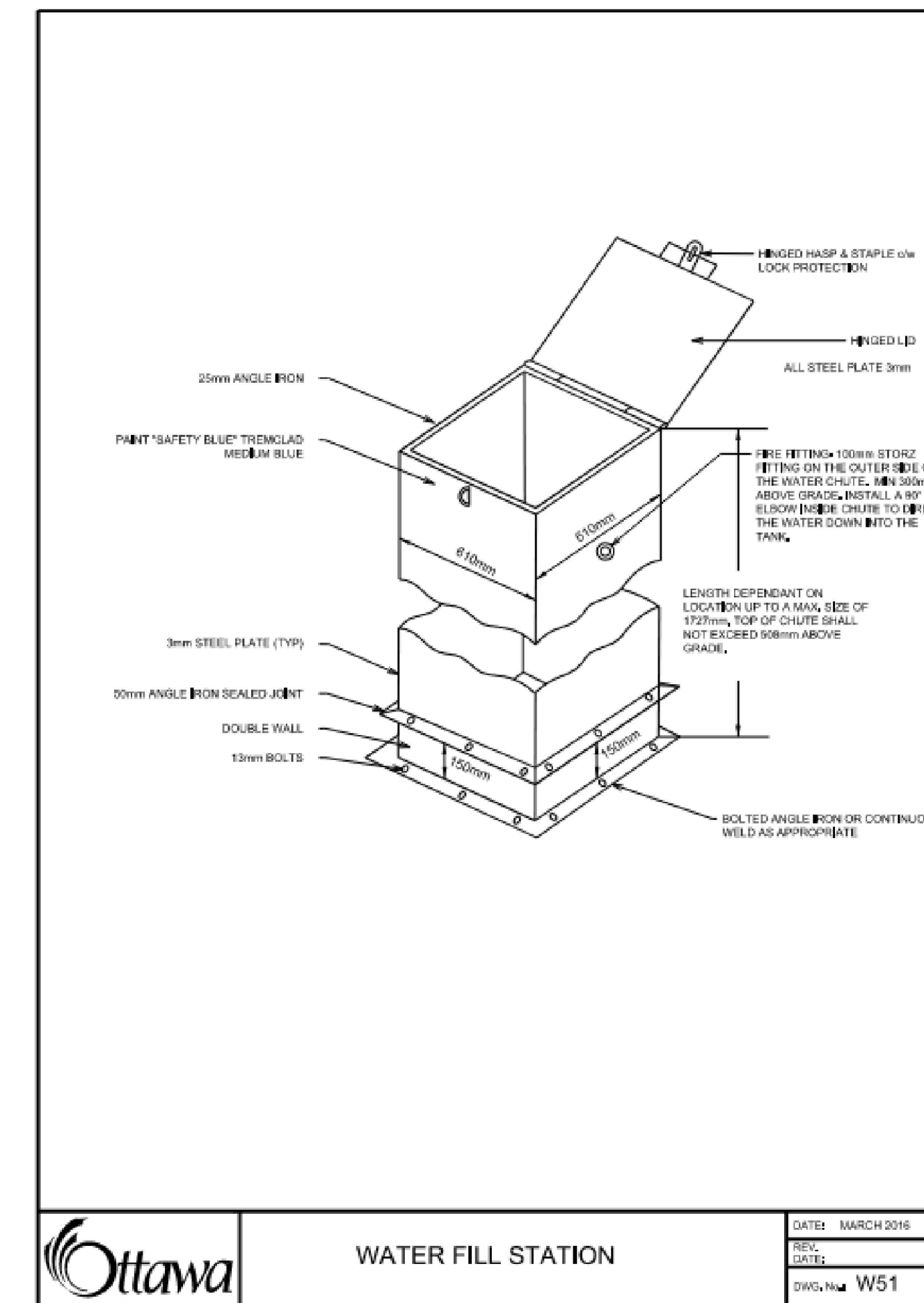
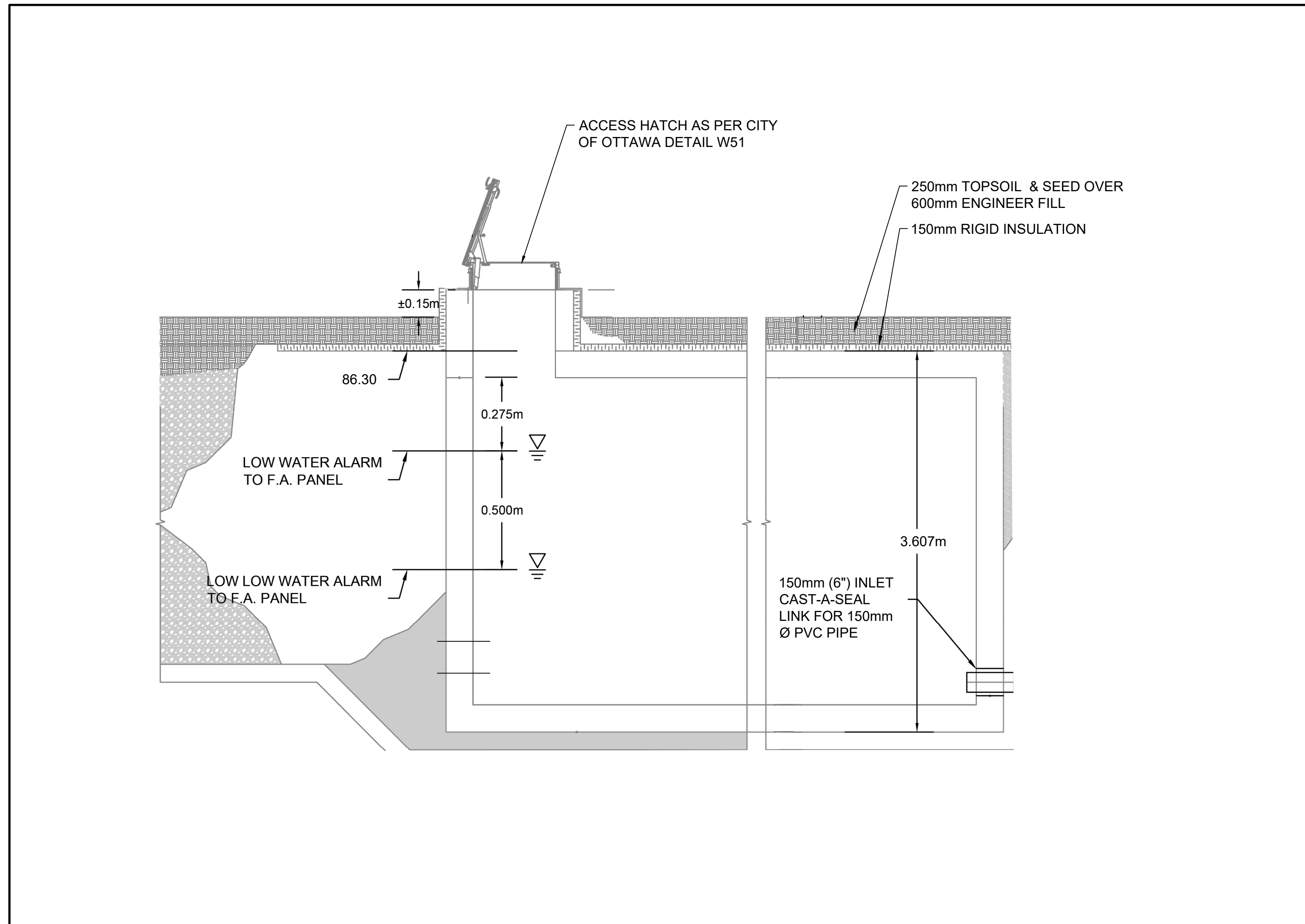
3440 FRANK KENNY ROAD

DRAWING:

TANK DETAILS 1

DESIGN:	M.D.	DRAWING #:	C-009
DRAWN:	G.C.		
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Ottawa WATER FILL STATION
 DATE: MARCH 2016
 REV: 01
 DATE: 01/11/16
 DWG No: W51

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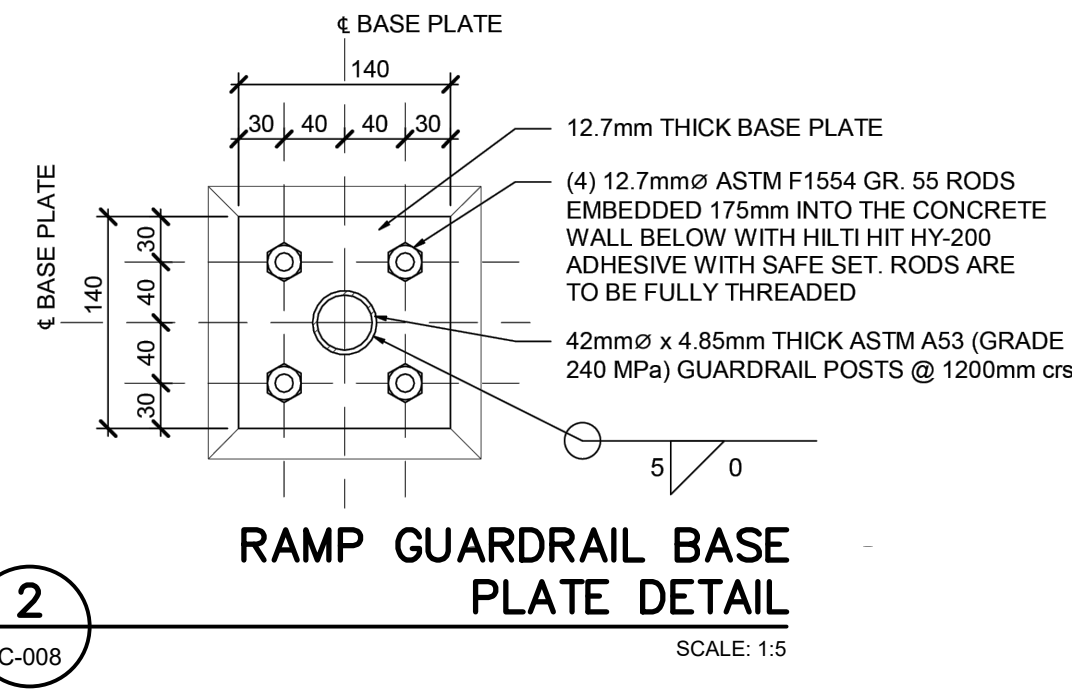
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PROJECT:
HYDRO ONE OPERATIONS CENTRE, ORLEANS
 3440 FRANK KENNY ROAD

DRAWING:
TANK DETAILS 2

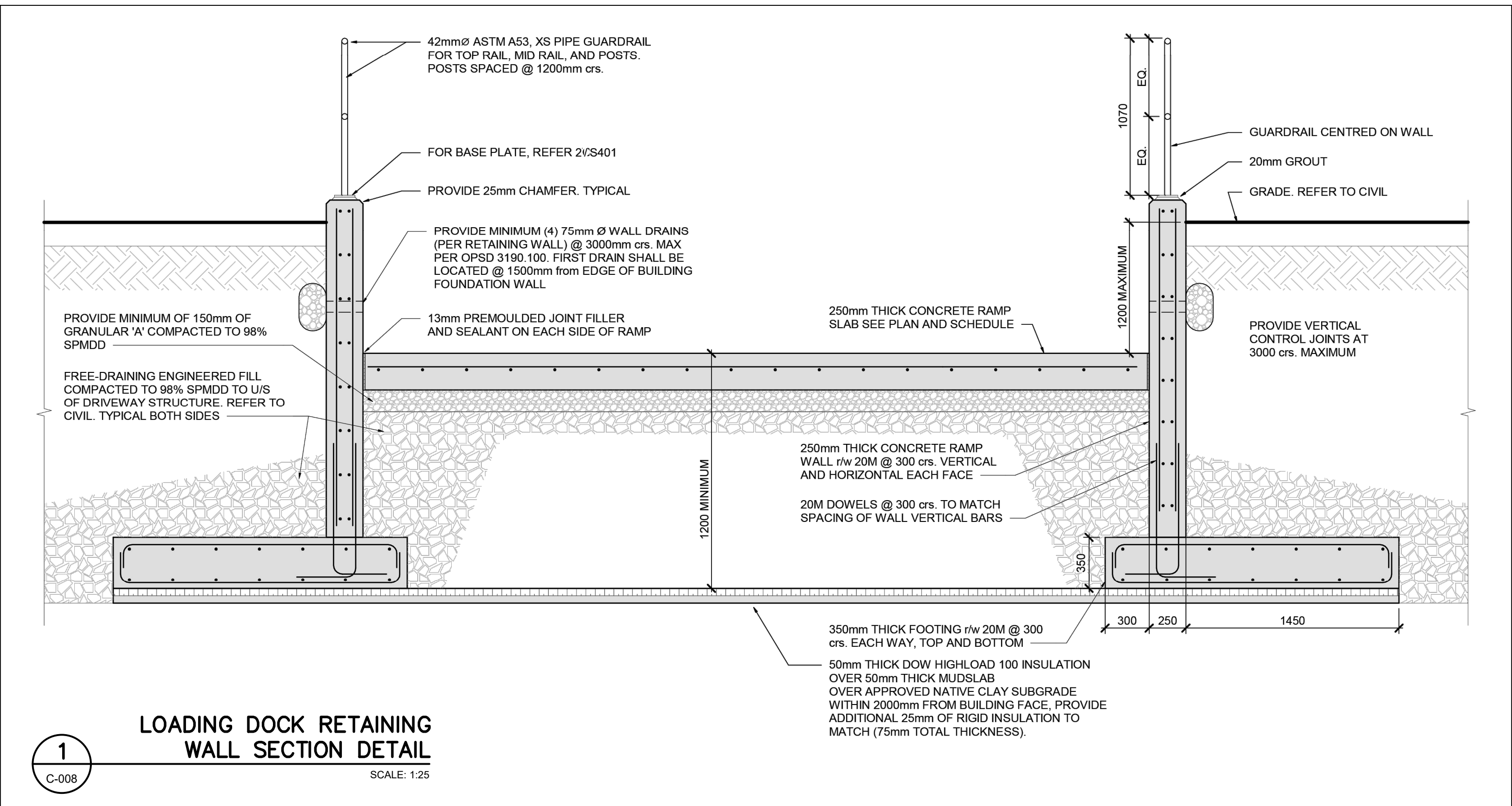
DESIGN: M.D.
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 CHECKED: D.U.
 JLR #: 31500-000
 DRAWING #: **C-010**

PLOT DATE: December 21, 2022 10:39 AM



RETAINING WALL NOTES:

- DESIGN BASED ON CSA S6-19 AND OBC 2012 (AMENDED 2020). LOADING AS FOLLOWS:
 - BACKFILL PRESSURES IN ACCORDANCE WITH GOLDER/WSP GEOTECHNICAL REPORT.
 - LIVE LOAD SURCHARGE PRESSURE: 12 kPa
 - COMPACTION PRESSURES AS PER CSA S6-19.
 - DRAINED BACKFILL CONDITIONS
 - DESIGN FOR SEISMIC PRESSURES AS PER CSA S6-19 AND GOLDER/WSP GEOTECHNICAL REPORT.
 - GUARDRAIL HAS BEEN DESIGNED IN ACCORDANCE WITH OBC 2012, CLAUSE 4.1.5.14 FOR LOCATIONS WITH LIMITED OCCUPANCY WHERE GATHERING OF MANY PEOPLE IS IMPROBABLE.
- FOUNDATIONS SHALL BE FOUNDED ON NATIVE WEATHERED CLAY CRUST WITH A MINIMUM BEARING CAPACITY OF 165 kPa (ULS) AND 125 kPa (SLS).
- CAST-IN-PLACE CONCRETE: CLASS 'C1', MINIMUM SPECIFIED COMPRESSIVE STRENGTH = 35 MPa @ 56 DAYS.
- ALL REINFORCING TO CSA G30.18, GRADE 400W.
- ALL LAP SPLICES SHALL BE CLASS 'B' LAP SPLICES IN ACCORDANCE WITH CSA A23.3-14.
- MINIMUM COVER IS 75mm CAST DIRECTLY AGAINST SOIL AND 60mm EXPOSED TO SALTS AND CHLORIDES.
- STEEL DESIGN IN ACCORDANCE WITH CSA S16-14.



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HYDRO ONE OPERATIONS CENTRE, ORLEANS

3440 FRANK KENNY ROAD

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LOADING DOCK DETAILS

DESIGN: M.D.
DRAWN: G.C.
CHECKED: D.U.
JLR #: 31500-000

DRAWING #:
C-011