

CAVENDISH CAMPGROUND

20 SITE EXPANSION

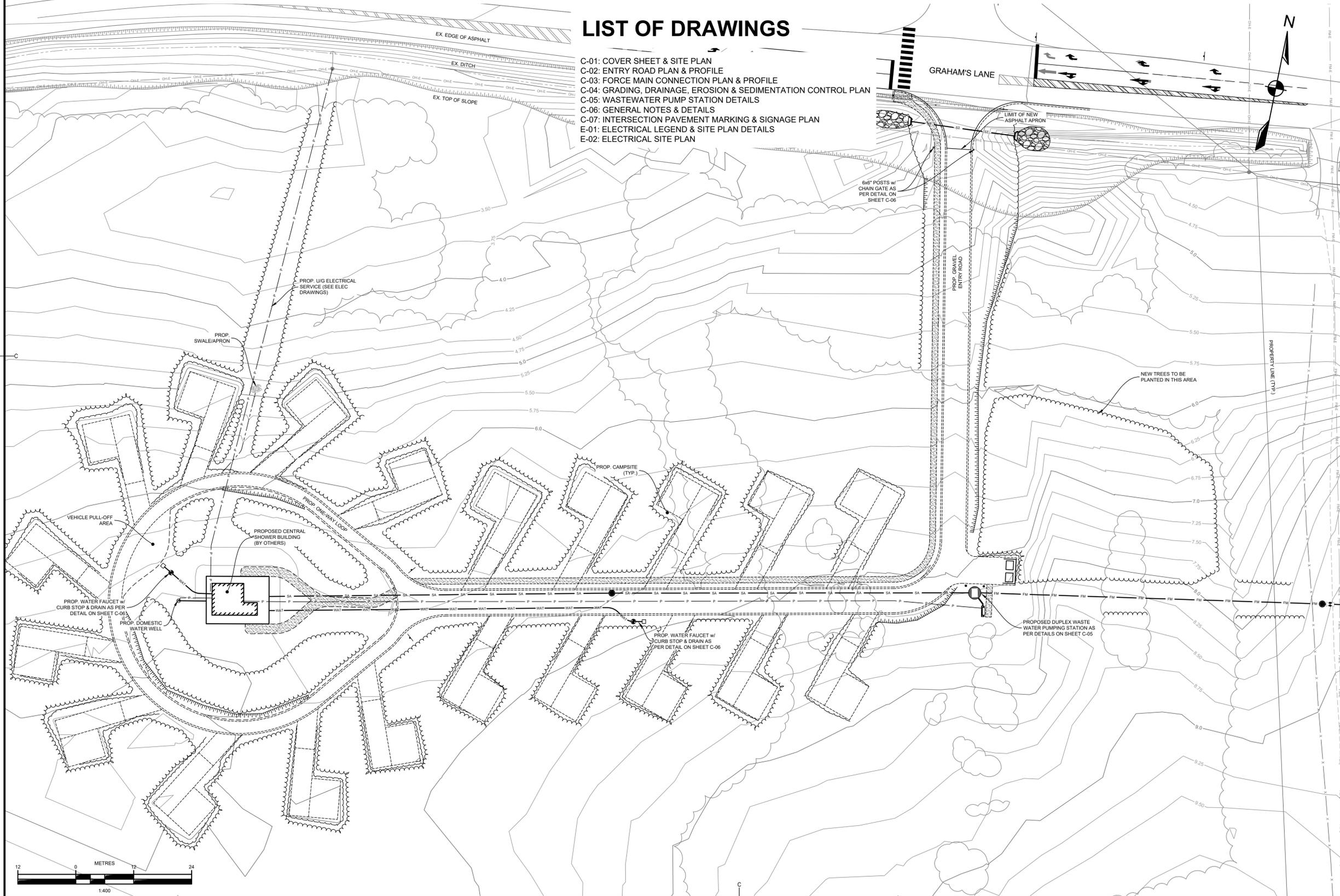


THE ASSOCIATION OF
 PROFESSIONAL ENGINEERS
 OF THE PROVINCE OF
 PRINCE EDWARD ISLAND
 VALID FOR THE YEAR 2020

 E. Teasdale
 No. 1443
 DATE: APR. 27, 2021
 LICENSED
 PROFESSIONAL ENGINEER
 PROVINCE OF
 PRINCE EDWARD ISLAND

LIST OF DRAWINGS

- C-01: COVER SHEET & SITE PLAN
- C-02: ENTRY ROAD PLAN & PROFILE
- C-03: FORCE MAIN CONNECTION PLAN & PROFILE
- C-04: GRADING, DRAINAGE, EROSION & SEDIMENTATION CONTROL PLAN
- C-05: WASTEWATER PUMP STATION DETAILS
- C-06: GENERAL NOTES & DETAILS
- C-07: INTERSECTION PAVEMENT MARKING & SIGNAGE PLAN
- E-01: ELECTRICAL LEGEND & SITE PLAN DETAILS
- E-02: ELECTRICAL SITE PLAN



revisions	date
4	ISSUED FOR TENDER 27-APR-21
3	ISSUED FOR FINAL APPROVAL 01-APR-21
2	ISSUED FOR 90% REVIEW 08-MAR-21
1	ISSUED FOR 66% REVIEW 22-FEB-21
0	ISSUED FOR PRELIM. COORDINATION 28-JAN-21

project CAVENDISH CAMPGROUND EXPANSION

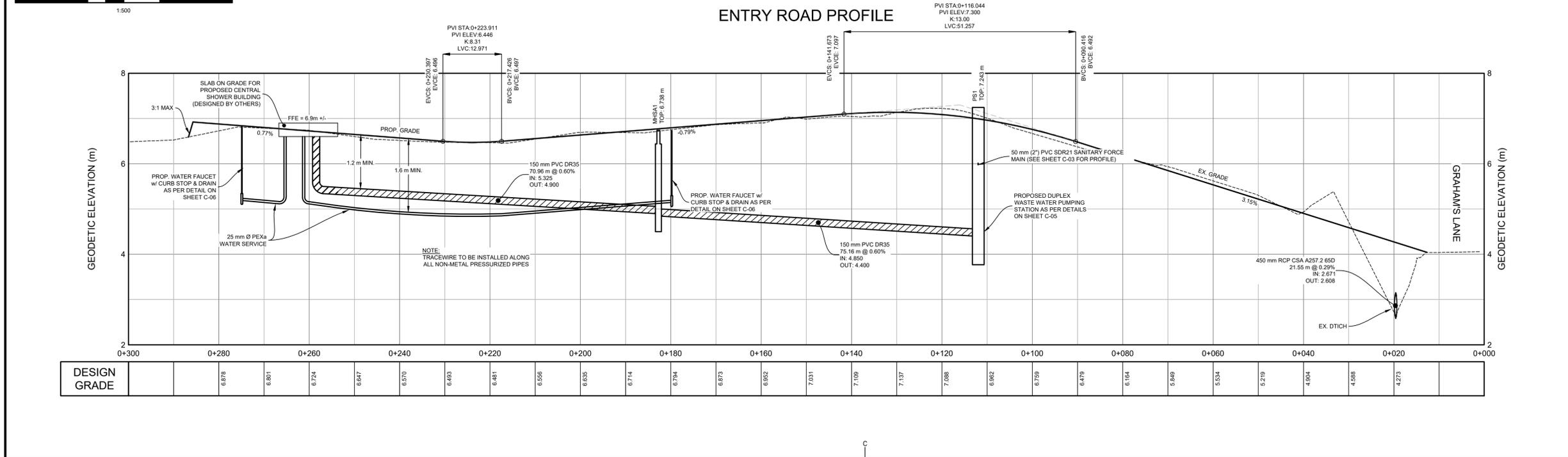
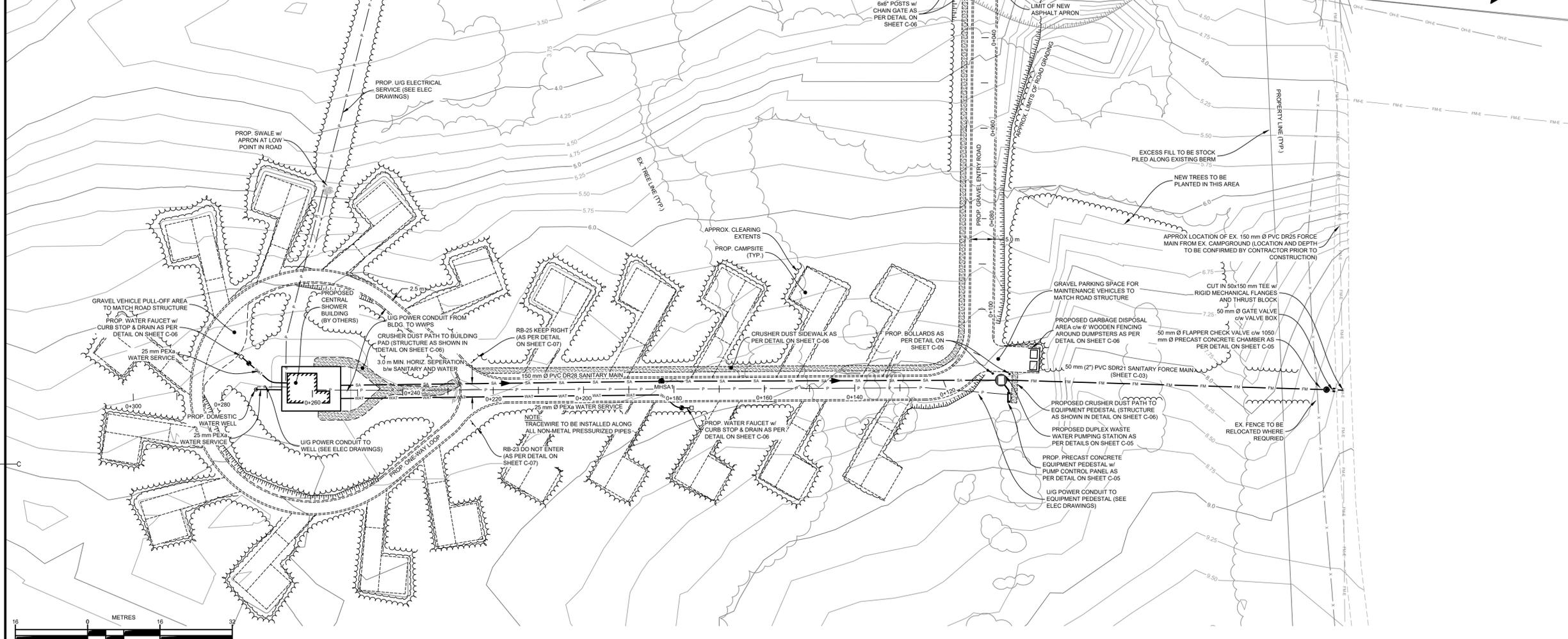
drawing desin

COVER SHEET & SITE PLAN

designed	JJW	conqu
date	FEB. 17, 2021	
drawn	JJW	desin
date	FEB. 17, 2021	
approved	EPT	approv
date	MAR. 31, 2021	
Tender	JONATHAN BAND	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number	2156	no. du projet
drawing no.	C-01	no. du dessin

LEGEND

EXISTING		PROPOSED	
	VERTICAL PROFILE		PROPOSED
	WATER PIPE		WATER PIPE
	SANITARY PIPE		SANITARY PIPE
	STORM PIPE		STORM PIPE
	FORCE MAIN		FORCE MAIN
	UNDERGROUND POWER		UNDERGROUND POWER
	UNDERGROUND COMM		UNDERGROUND COMM
	UTILITY POLE w/ GUY WIRE		UTILITY POLE w/ GUY WIRE
	WELL		WELL
	STREET SIGN		STREET SIGN
	PUMP STATION		PUMP STATION



Parks Canada
Parcs Canada

KEY PLAN 1:20000

DESIGN POINT
ENGINEERING & SURVEYING

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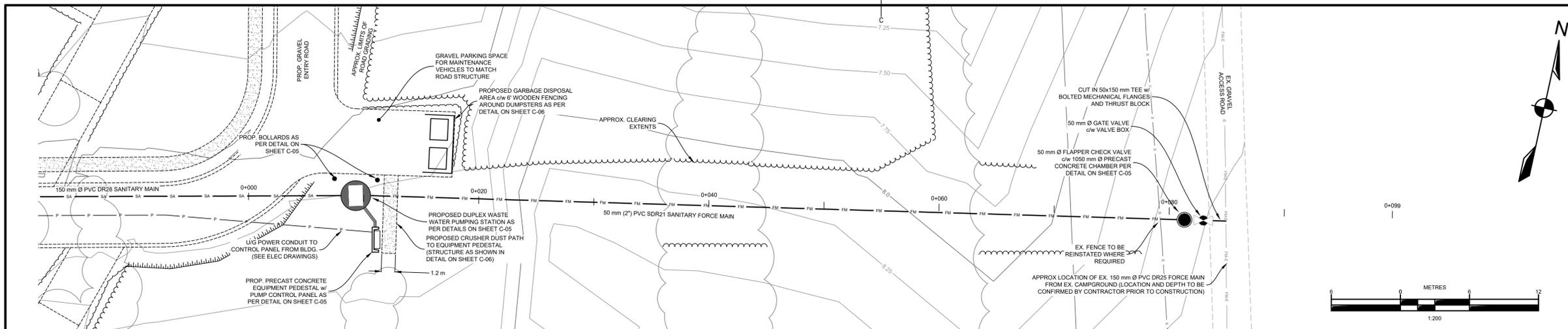
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF PRINCE EDWARD ISLAND

revisions	description	date
4	ISSUED FOR TENDER	27-APR-21
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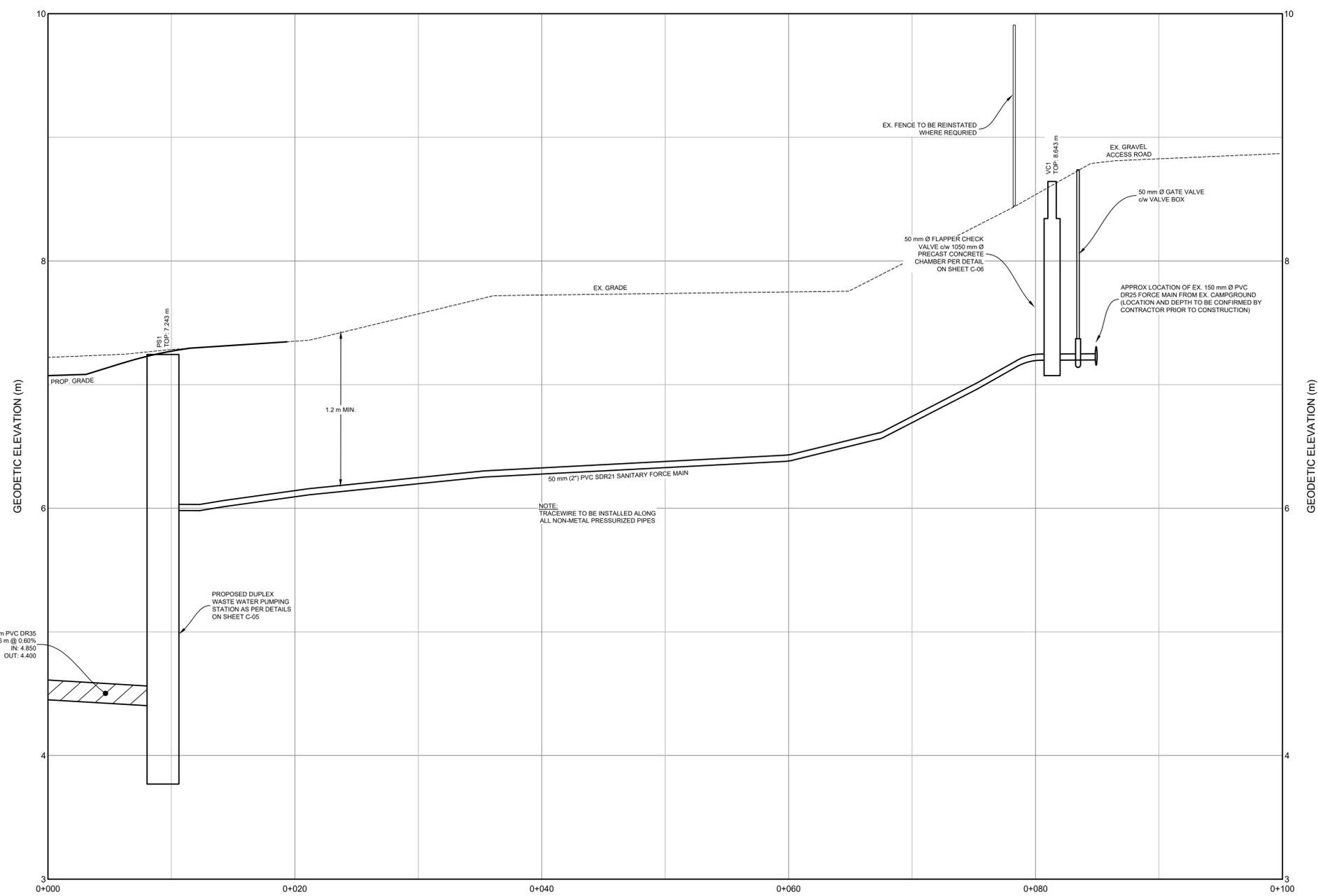
CAVENDISH CAMPGROUND EXPANSION

ENTRY ROAD PLAN AND PROFILE

designed	JJW	conçu
date	FEB. 17, 2021	
drawn	JJW	dessiné
date	FEB. 17, 2021	
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	PWGSC Project Manager	Administrateur de projets TPSCG
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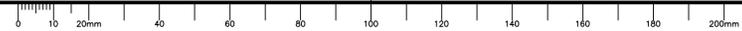


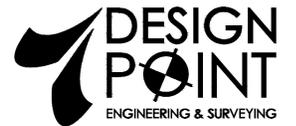
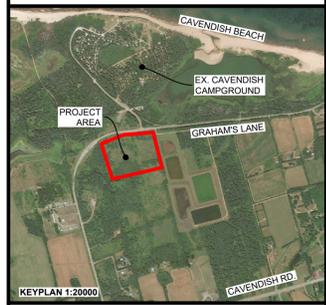
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CAVENDISH CAMPGROUND EXPANSION

FORCE MAIN CONNECTION PLAN & PROFILE

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drawn	JJW	dessiné
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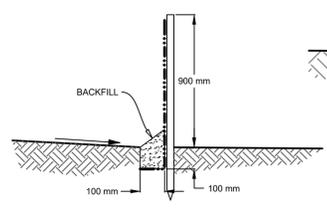
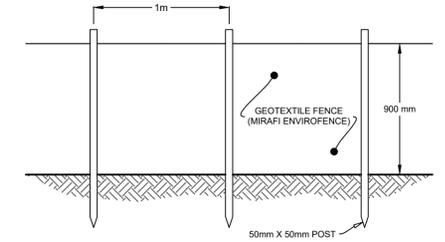
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project CAVDENSH CAMPGROUND EXPANSION

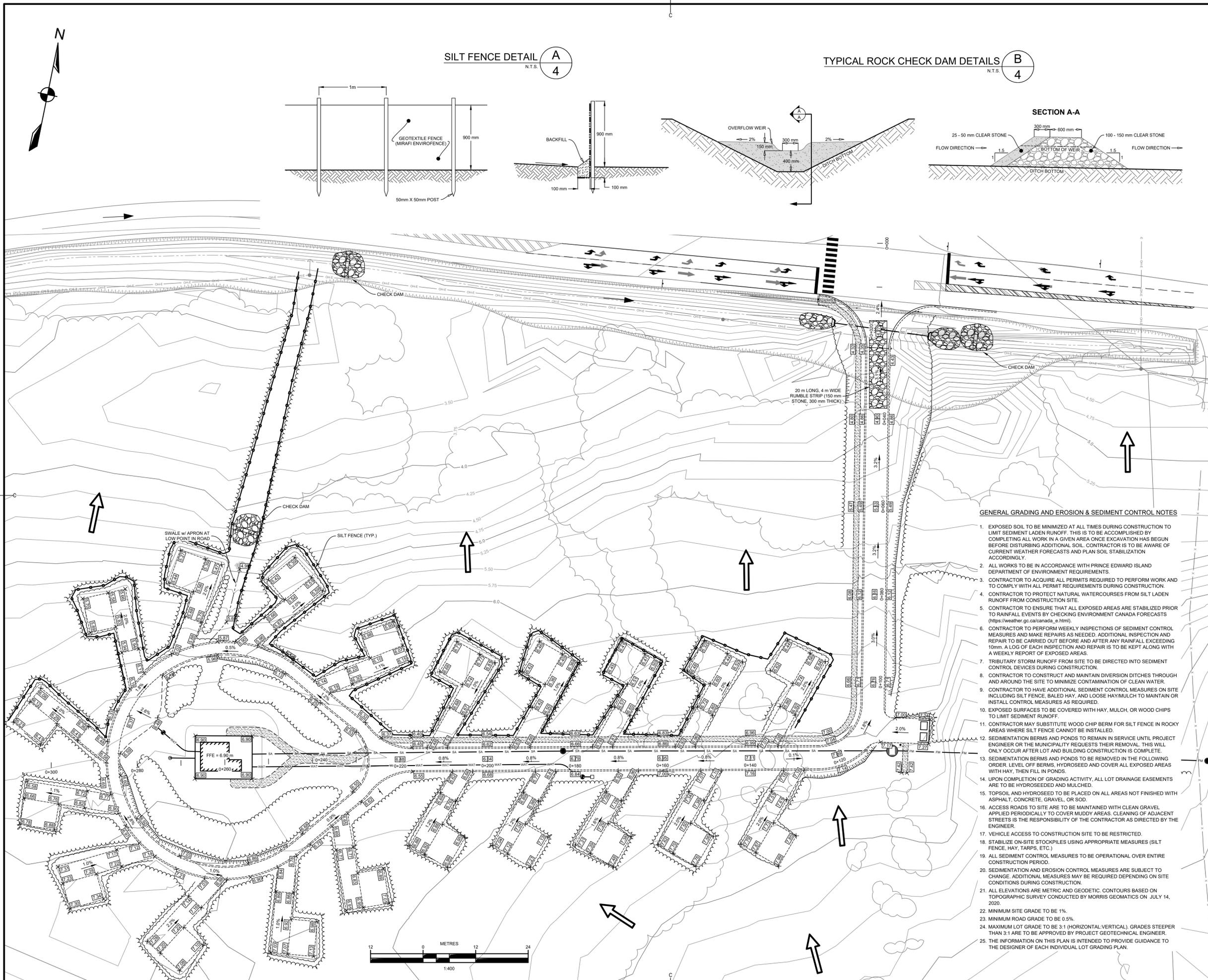
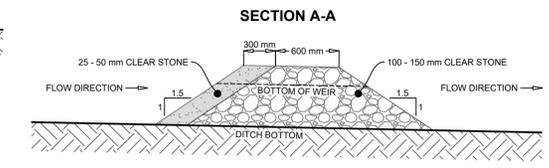
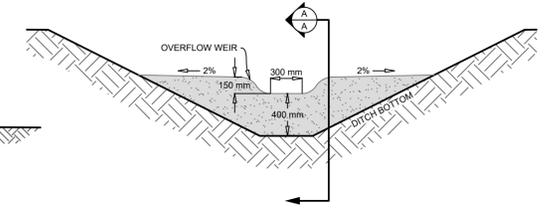
GRADING, DRAINAGE, EROSION & SEDIMENTATION CONTROL PLAN

designed	JJW	conçu
date	FEB. 17, 2021	
drawn	JJW	dessiné
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Tender	JONATHAN BAND	Soumission
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SILT FENCE DETAIL A
N.T.S. 4



TYPICAL ROCK CHECK DAM DETAILS B
N.T.S. 4



GENERAL GRADING AND EROSION & SEDIMENTATION CONTROL NOTES

- EXPOSED SOIL TO BE MINIMIZED AT ALL TIMES DURING CONSTRUCTION TO LIMIT SEDIMENT LADEN RUNOFF. THIS IS TO BE ACCOMPLISHED BY COMPLETING ALL WORK IN A GIVEN AREA ONCE EXCAVATION HAS BEGUN BEFORE DISTURBING ADDITIONAL SOIL. CONTRACTOR IS TO BE AWARE OF CURRENT WEATHER FORECASTS AND PLAN SOIL STABILIZATION ACCORDINGLY.
- ALL WORKS TO BE IN ACCORDANCE WITH PRINCE EDWARD ISLAND DEPARTMENT OF ENVIRONMENT REQUIREMENTS.
- CONTRACTOR TO ACQUIRE ALL PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS DURING CONSTRUCTION.
- CONTRACTOR TO PROTECT NATURAL WATERCOURSES FROM SILT LADEN RUNOFF FROM CONSTRUCTION SITE.
- CONTRACTOR TO ENSURE THAT ALL EXPOSED AREAS ARE STABILIZED PRIOR TO RAINFALL EVENTS BY CHECKING ENVIRONMENT CANADA FORECASTS (https://weather.gc.ca/canada_e.html).
- CONTRACTOR TO PERFORM WEEKLY INSPECTIONS OF SEDIMENT CONTROL MEASURES AND MAKE REPAIRS AS NEEDED. ADDITIONAL INSPECTION AND REPAIR TO BE CARRIED OUT BEFORE AND AFTER ANY RAINFALL EXCEEDING 10mm. A LOG OF EACH INSPECTION AND REPAIR IS TO BE KEPT ALONG WITH A WEEKLY REPORT OF EXPOSED AREAS.
- TRIBUTARY STORM RUNOFF FROM SITE TO BE DIRECTED INTO SEDIMENT CONTROL DEVICES DURING CONSTRUCTION.
- CONTRACTOR TO CONSTRUCT AND MAINTAIN DIVERSION DITCHES THROUGH AND AROUND THE SITE TO MINIMIZE CONTAMINATION OF CLEAN WATER.
- CONTRACTOR TO HAVE ADDITIONAL SEDIMENT CONTROL MEASURES ON SITE INCLUDING SILT FENCE, BALED HAY, AND LOOSE HAY/MULCH TO MAINTAIN OR INSTALL CONTROL MEASURES AS REQUIRED.
- EXPOSED SURFACES TO BE COVERED WITH HAY, MULCH, OR WOOD CHIPS TO LIMIT SEDIMENT RUNOFF.
- CONTRACTOR MAY SUBSTITUTE WOOD CHIP BERM FOR SILT FENCE IN ROCKY AREAS WHERE SILT FENCE CANNOT BE INSTALLED.
- SEDIMENTATION BERMS AND PONDS TO REMAIN IN SERVICE UNTIL PROJECT ENGINEER OR THE MUNICIPALITY REQUESTS THEIR REMOVAL. THIS WILL ONLY OCCUR AFTER LOT AND BUILDING CONSTRUCTION IS COMPLETE.
- SEDIMENTATION BERMS AND PONDS TO BE REMOVED IN THE FOLLOWING ORDER: LEVEL OFF BERMS, HYDROSEED AND COVER ALL EXPOSED AREAS WITH HAY, THEN FILL IN PONDS.
- UPON COMPLETION OF GRADING ACTIVITY, ALL LOT DRAINAGE EASEMENTS ARE TO BE HYDROSEED AND MULCHED.
- TOPSOIL AND HYDROSEED TO BE PLACED ON ALL AREAS NOT FINISHED WITH ASPHALT, CONCRETE, GRAVEL, OR SOD.
- ACCESS ROADS TO SITE ARE TO BE MAINTAINED WITH CLEAN GRAVEL. APPLIED PERIODICALLY TO COVER MUDDY AREAS. CLEANING OF ADJACENT STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- VEHICLE ACCESS TO CONSTRUCTION SITE TO BE RESTRICTED.
- STABILIZE ON-SITE STOCKPILES USING APPROPRIATE MEASURES (SILT FENCE, HAY, TARPS, ETC.).
- ALL SEDIMENT CONTROL MEASURES TO BE OPERATIONAL OVER ENTIRE CONSTRUCTION PERIOD.
- SEDIMENTATION AND EROSION CONTROL MEASURES ARE SUBJECT TO CHANGE. ADDITIONAL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.
- ALL ELEVATIONS ARE METRIC AND GEODETIC. CONTOURS BASED ON TOPOGRAPHIC SURVEY CONDUCTED BY MORRIS GEOMATICS ON JULY 14, 2020.
- MINIMUM SITE GRADE TO BE 1%.
- MINIMUM ROAD GRADE TO BE 0.5%.
- MAXIMUM LOT GRADE TO BE 3:1 (HORIZONTAL:VERTICAL). GRADES STEEPER THAN 3:1 ARE TO BE APPROVED BY PROJECT GEOTECHNICAL ENGINEER.
- THE INFORMATION ON THIS PLAN IS INTENDED TO PROVIDE GUIDANCE TO THE DESIGNER OF EACH INDIVIDUAL LOT GRADING PLAN.



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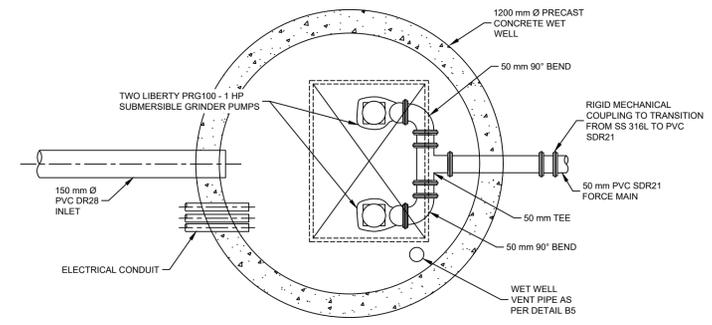
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project: CAVENDISH CAMPGROUND EXPANSION

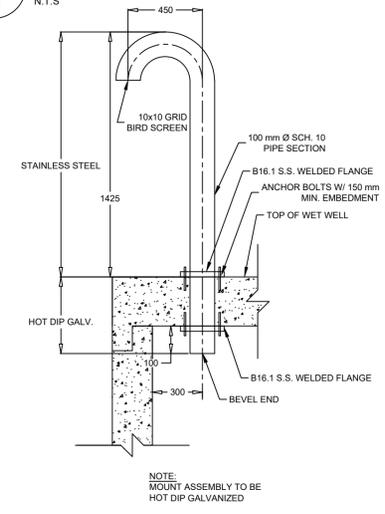
drawing: WASTEWATER PUMP STATION DETAILS

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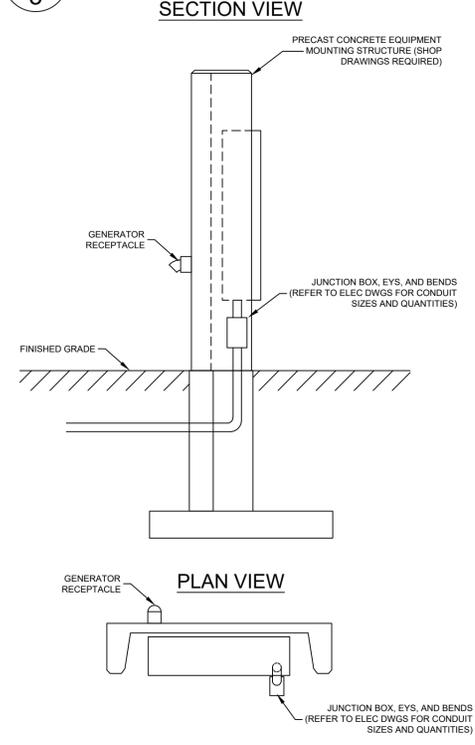
A PLAN - PUMP STATION
5 1:75



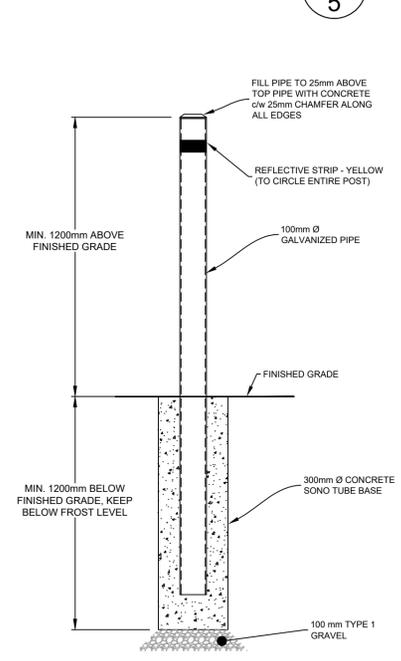
B WET WELL VENT PIPE DETAIL
5 N.T.S.



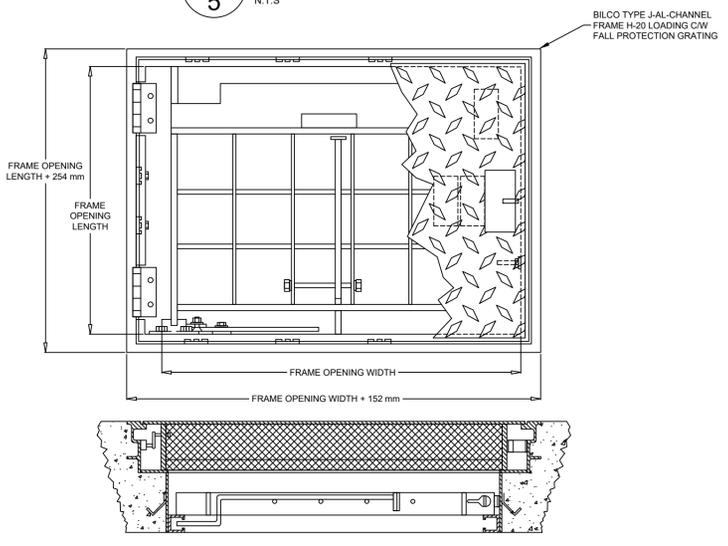
C PRE-CAST CONC. PEDESTAL DETAIL
5 N.T.S.



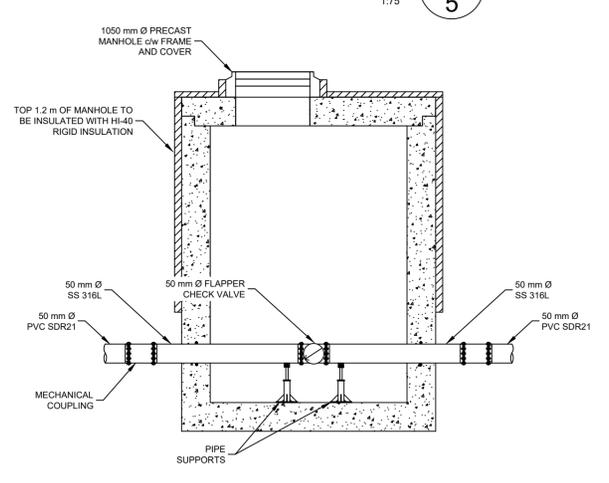
D FIXED BOLLARD DETAILS
5 N.T.S.



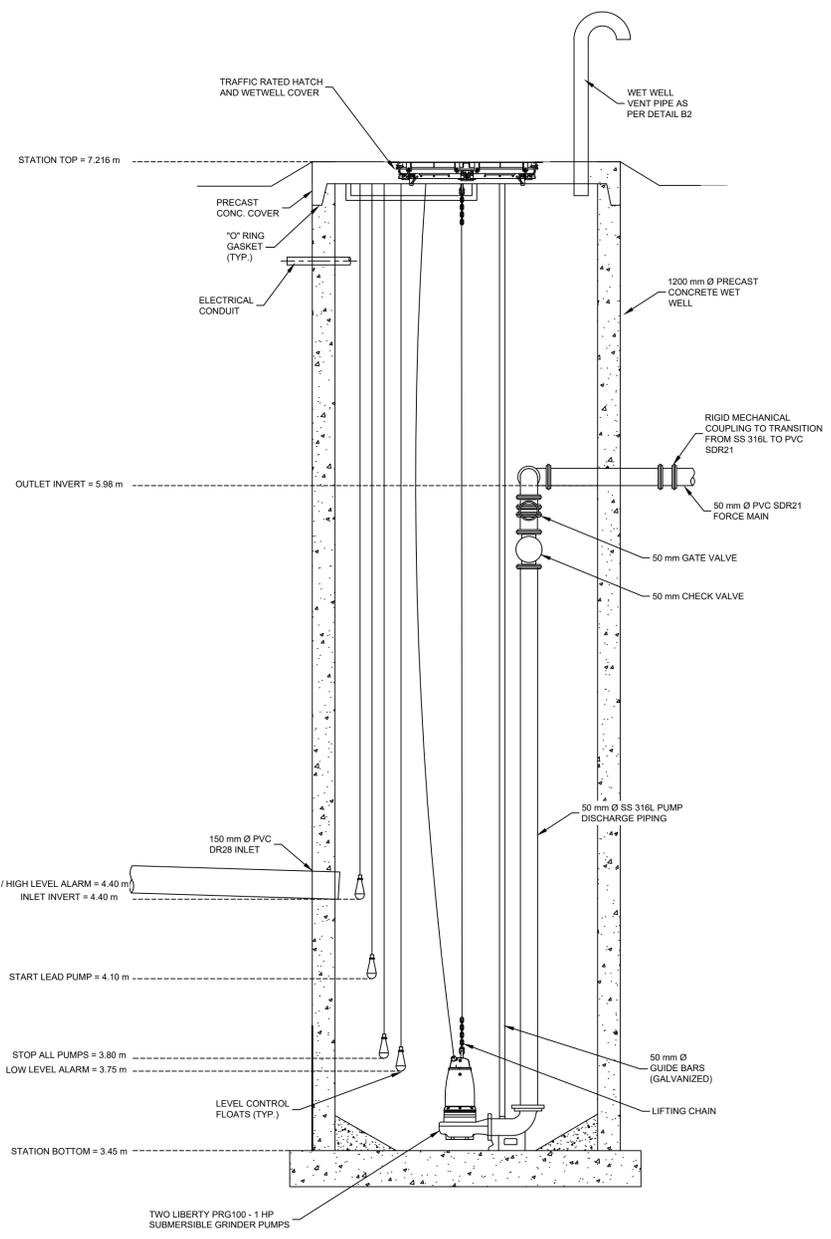
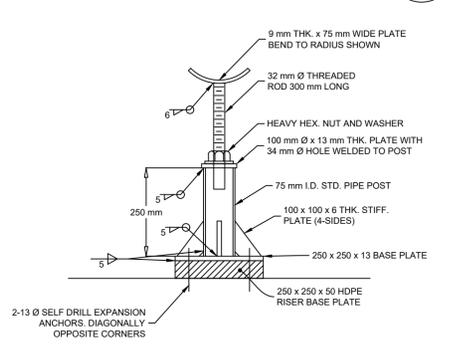
F SAFETY HATCH DETAIL
5 N.T.S.



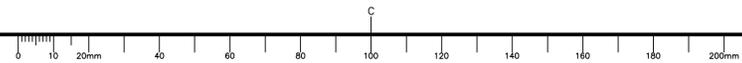
G CHECK VALVE CHAMBER DETAIL
5 1:75

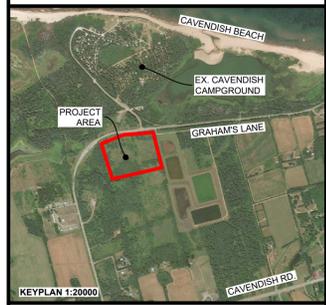


H PIPE SUPPORTS DETAIL
5 N.T.S.



E SECTION - PUMP STATION
5 1:75





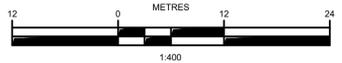
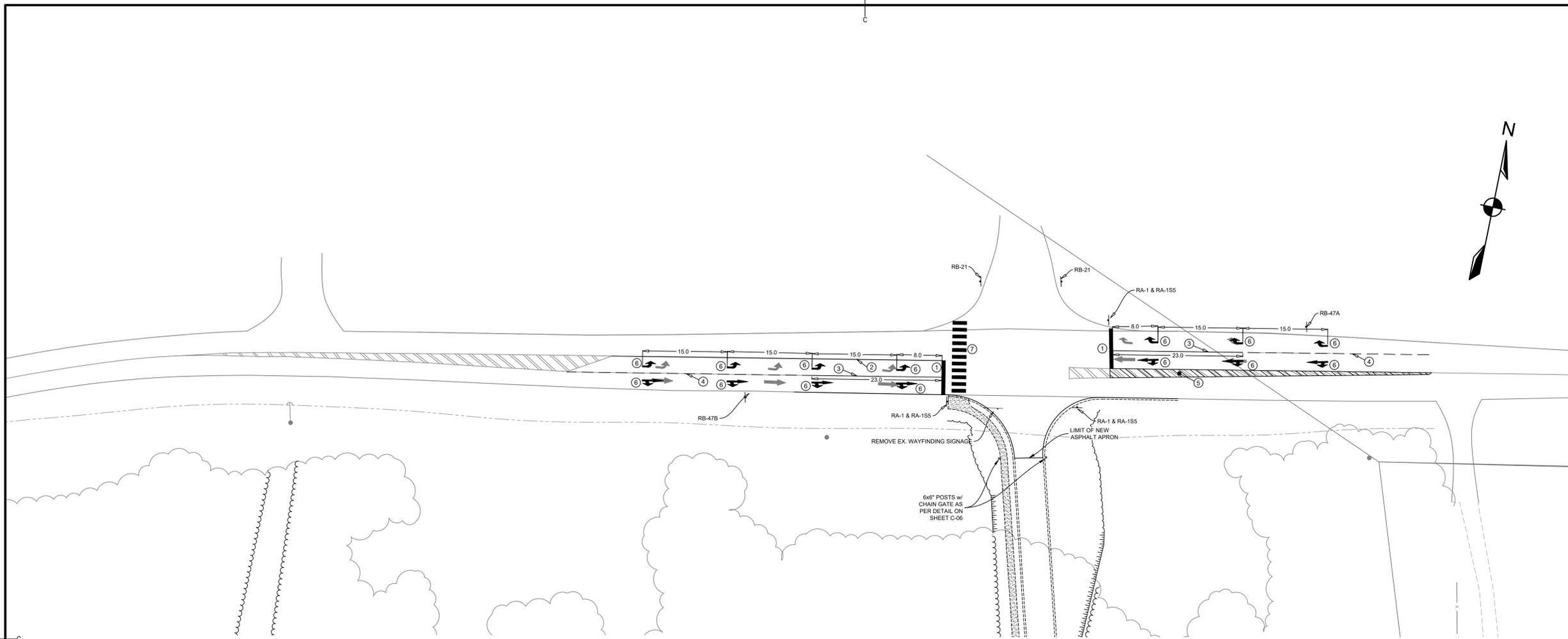
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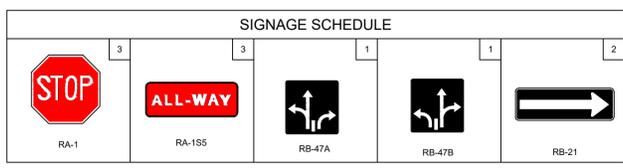
project
project
CAVENDISH CAMPGROUND EXPANSION

drawing
dessin
INTERSECTION PAVEMENT MARKING & SIGNAGE PLAN

designed	JJW	conçu
date	FEB. 17, 2021	
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Tender	JONATHAN BAND	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number	2156	no. du projet
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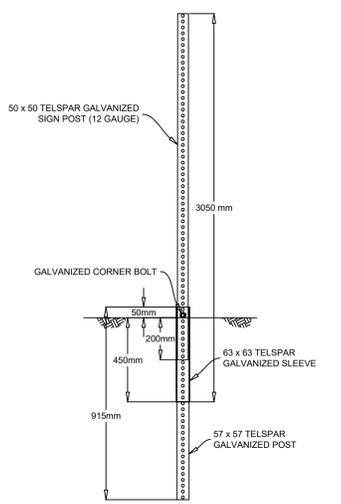
PAVEMENT MARKINGS				
IDENTIFICATION	TYPE	WIDTH	COLOUR	QUANTITY
①	STOP BAR	450 mm	WHITE	12 m
②	SINGLE CENTRELINE	100 mm NOT TO BE PAINTED THROUGH INTERSECTIONS	YELLOW	59 m
③	LANE LINES	100 mm	WHITE	46 m
④	BROKEN LINE 3x3	100 mm	WHITE	78 m
⑤	HATCH	100 mm LANE LINES WITH 450 mm HATCH LINES, 6.0 m SPACING	YELLOW	56 m ²
⑥	ARROW	3/4 TAC SIZE	WHITE	14
⑦	CROSSWALK LINE	200 mm x 2	WHITE	13 m

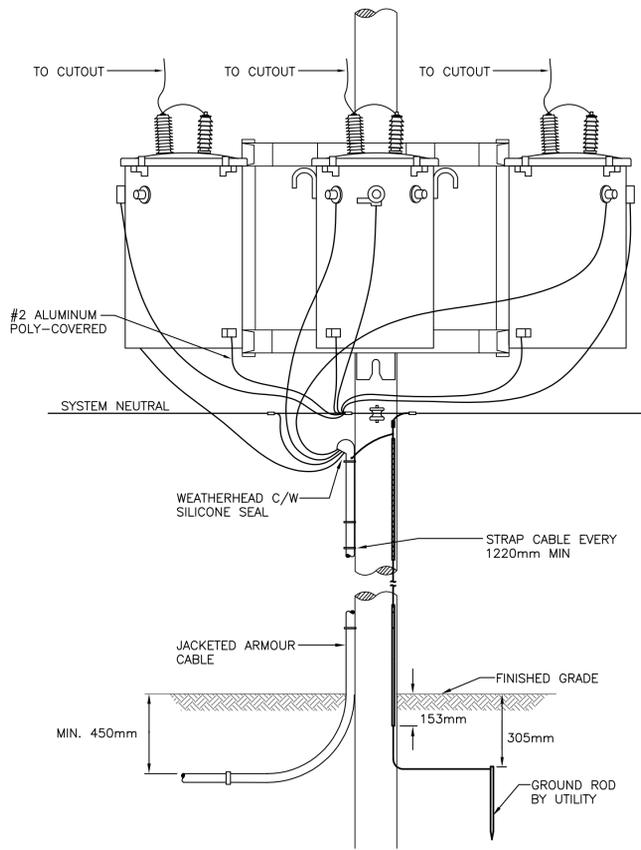


- PAVEMENT MARKING NOTES:**
- ALL LANE MARKINGS SHALL BE ACCORDING TO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCD) USING SIGNS APPROVED FOR USE IN PRINCE EDWARD ISLAND.
 - REMOVE ALL EXISTING PAVEMENT MARKINGS AT INTERSECTIONS AND APPROACHES AND RE-PAIN AS SHOWN, UNLESS OTHERWISE NOTED.
 - ALL MARKINGS DIMENSIONS TO CENTER OF LINES.

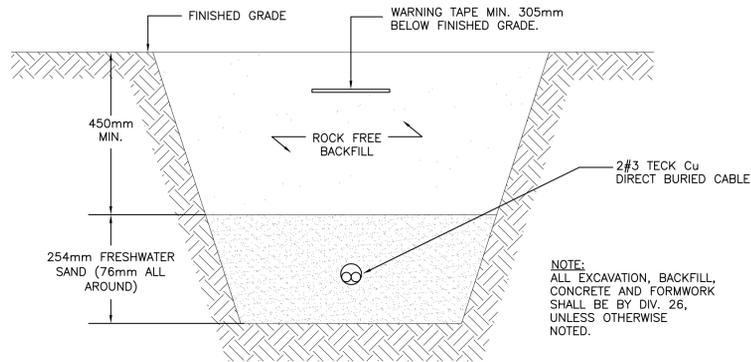
- SIGNAGE NOTES:**
- ALL SIGNS ARE TAC UNLESS OTHERWISE INDICATED ON SIGNAGE SCHEDULE.
 - EXACT LOCATION OF SIGN POSTS TO BE CONFIRMED IN FIELD.
 - ALL SIGNS TO BE MOUNTED ON TELSPAR RURAL SIGN POST

TRAFFIC SIGN POST
N.T.S.
A
7

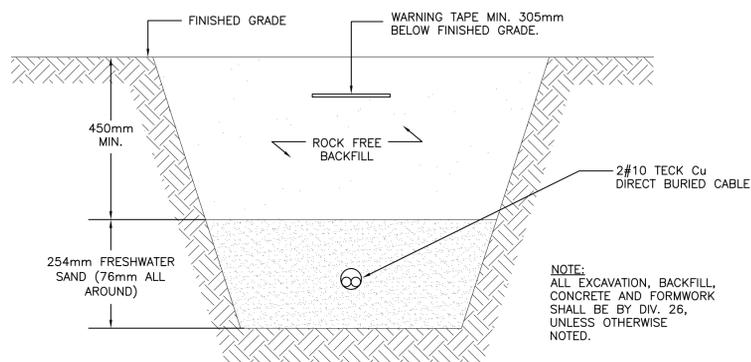




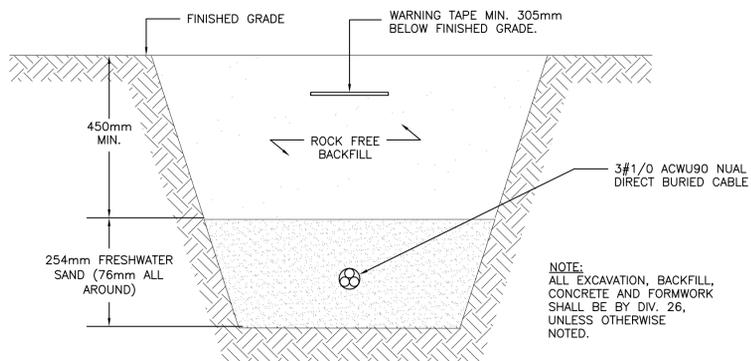
1 THREE PHASE TRANSFORMER SECONDARY SERVICE POLE
E-01 N.T.S.



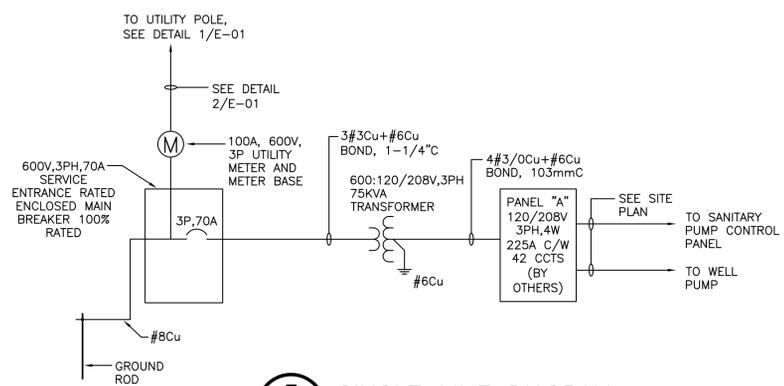
3 UNDERGROUND SANITARY PUMP POWER
E-01 N.T.S.



4 UNDERGROUND WELL PUMP POWER
E-01 N.T.S.

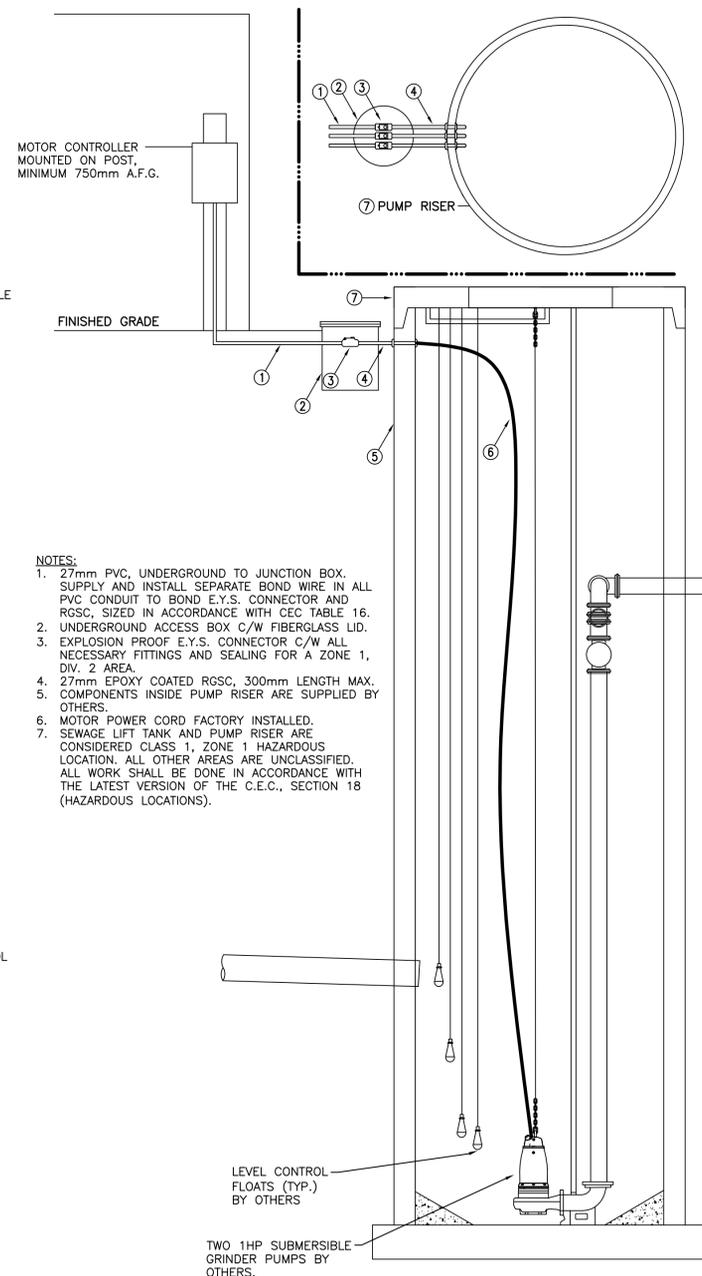


2 UNDERGROUND SECONDARY POWER
E-01 N.T.S.



5 SINGLE LINE DIAGRAM
E-01 N.T.S.

ELECTRICAL LEGEND	
☒	DRY TYPE TRANSFORMER. SEE SINGLE LINE DIAGRAM FOR DETAILS.
—	SURFACE MOUNTED ELECTRICAL PANEL. SEE SINGLE LINE DIAGRAM FOR DETAILS.
☐	SURFACE MOUNTED MAIN BREAKER C/W NEMA TYPE 1 ENCLOSURE. SEE SINGLE LINE DIAGRAM FOR DETAILS.
Ⓜ	ELECTRICAL UTILITY METER BY OTHERS. SEE SINGLE LINE DIAGRAM FOR DETAILS.
⊙	SINGLE PHASE MOTOR, REFER TO CIVIL DRAWINGS FOR DETAILS.
---	INDICATES UNDERGROUND POWER CONDUCTORS, SEE SITE DETAILS
---	INDICATES UNDERGROUND SECONDARY CONDUCTORS, SEE SITE DETAILS

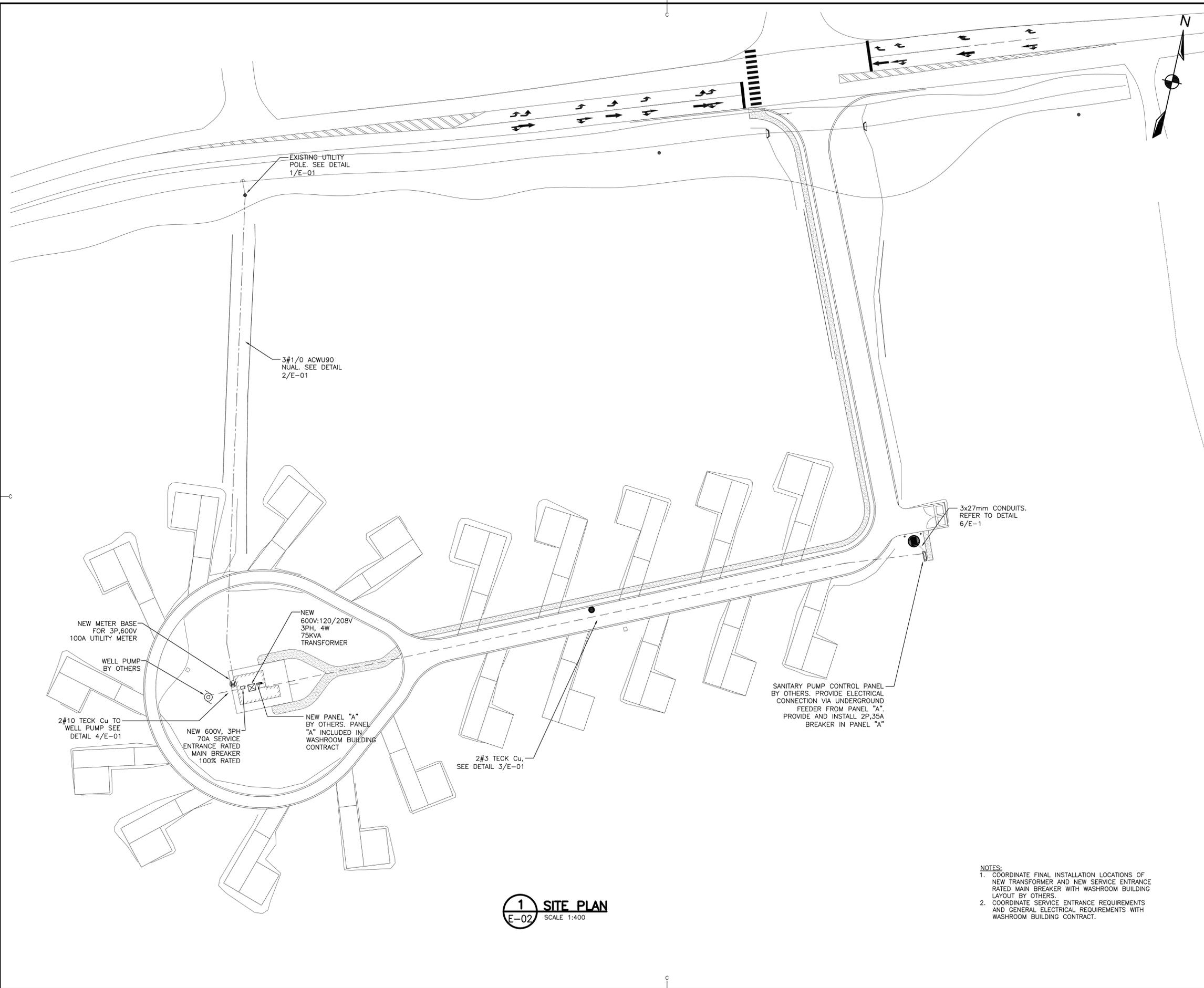


6 ELECTRICAL CONNECTIONS AT SANITARY PUMP RISER
E-01 N.T.S.

revisions	description	date
2	ISSUED FOR TENDER	23-APR-21
1	ISSUED FOR 100% REVIEW	07-APR-21
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project	CAVENDISH CAMPGROUND EXPANSION	project
drawing	ELECTRICAL LEGEND & SITE PLAN DETAILS	dessin

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Tender		Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
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2	ISSUED FOR TENDER	23-APR-21
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0	ISSUED FOR REVIEW	05-MAR-21

project CAVENDISH CAMPGROUND EXPANSION

drawing ELEC
dessin ELECTRICAL
SITE PLAN

designed LPK congru
date MARCH 3, 2021
drawn MAS dessinf
date MARCH 3, 2021
approved DJM approuv
date MARCH 3, 2021

Tender Soumission
PWGSC Project Manager Administrateur de projets TPSGC

project number 21-006
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no. du dessin

