

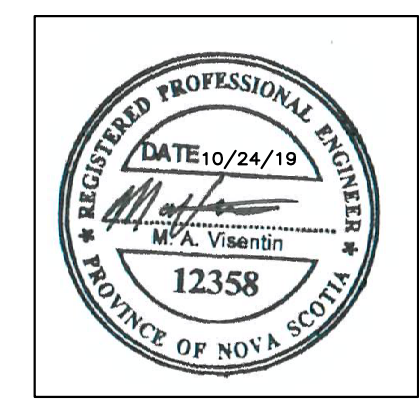
GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
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- X.XXX PROPOSED SPOT ELEVATION
- × X.XXX EXISTING SPOT ELEVATION
- X.XXZ PROPOSED SLOPE



**ENGINEERING SERVICES INC**  
 5209 ST. MARGARET'S BAY RD., SUITE 201  
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KEY PLAN / PLAN CLÉ

No.	Date	Revision	By	Post
4	24/10/2019	ISSUED FOR TENDER	MV	
3	01/10/2019	ISSUED FOR 90% REVIEW	MV	
2	18/09/2019	ISSUED FOR 90% REVIEW	MV	
1	29/08/2019	ISSUED FOR 50% REVIEW	MV	

Date Printed / Date imprimée

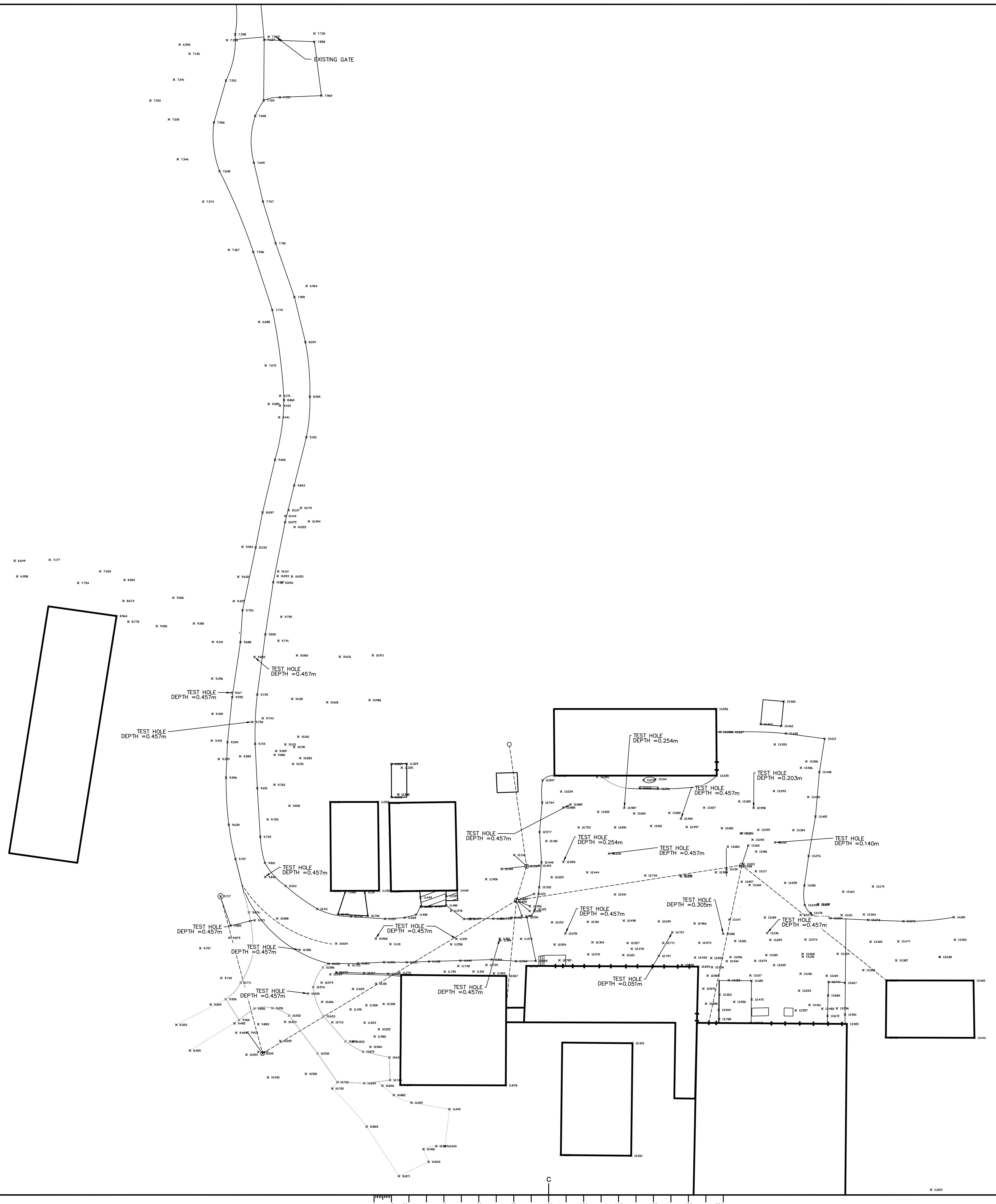
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A	Detail no. / No. du détail	A
B	Location drawing no. / sur dessin no.	B
C	Drawing no. / dessin no.	C

project / projet: NATIONAL RESEARCH COUNCIL CANADA AQUACULTURE RESEARCH STATION SANDY COVE

drawing / dessin: EXISTING SITE PLAN

designed / conçu	MAV	date	29/08/2019	date
drawn / dessiné	JCM	scale	1:250	échelle
checked / vérifié	MAV	sheet	1/3	feuille
approved / approuvé	MAV	W.O.no.		D.T.no.
dwg.no.	C-102	dessin no.	5366	
ACAD file:		fichier CDAO:		

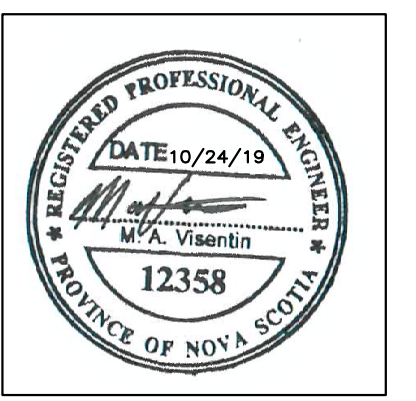


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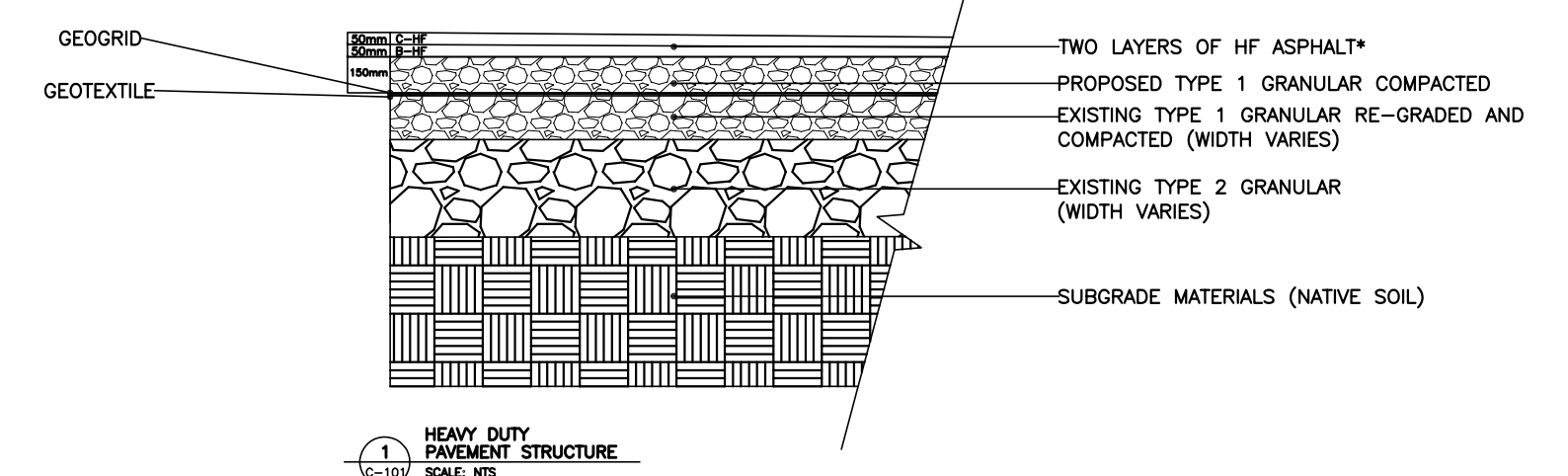
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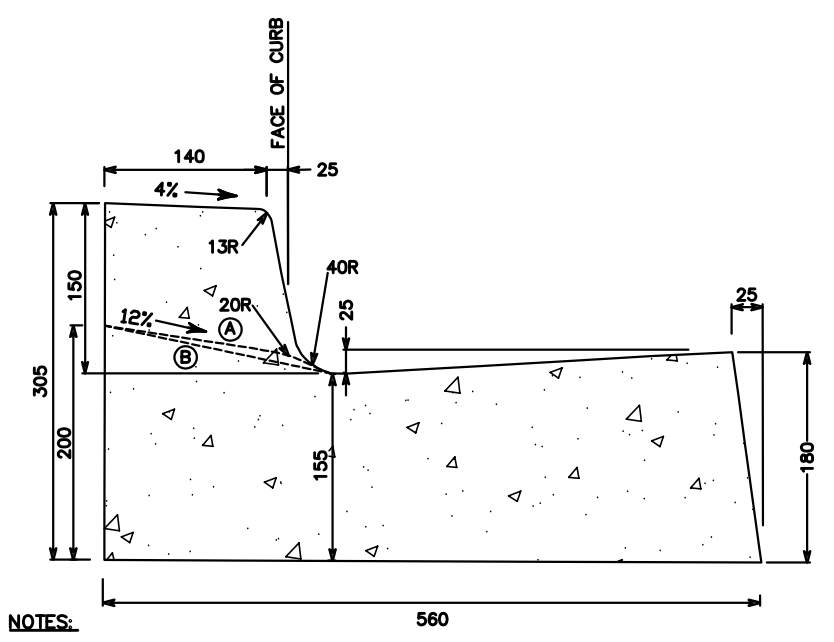
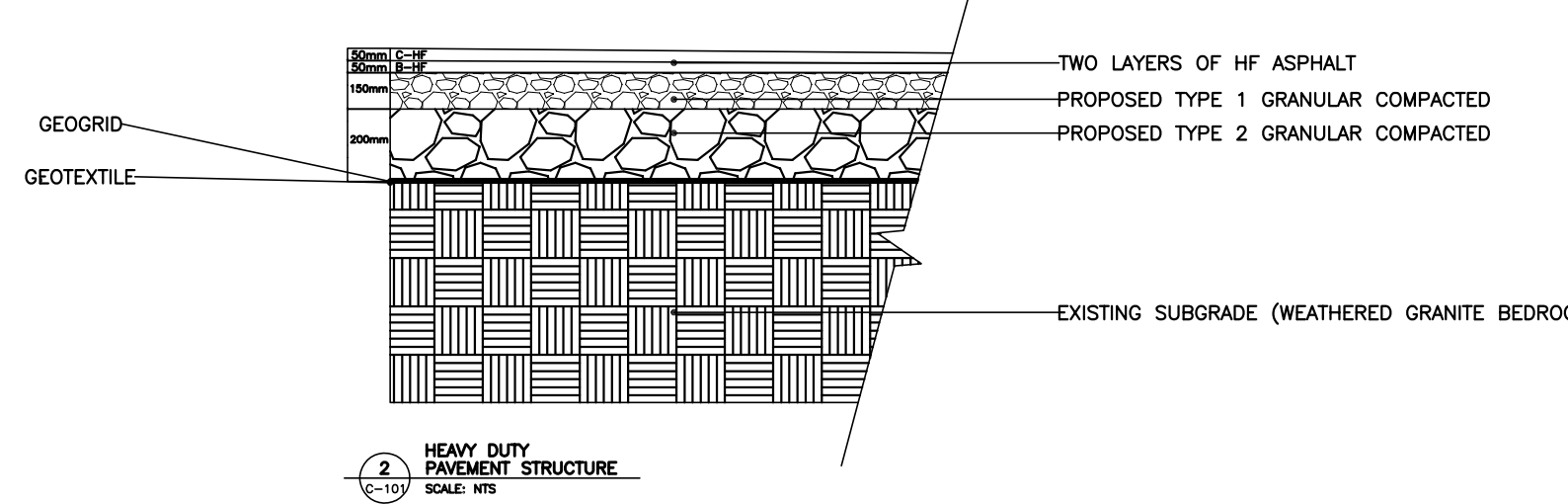


SECTION 1 - PARTIAL DEPTH REHABILITATION - SANDY COVE ROAD



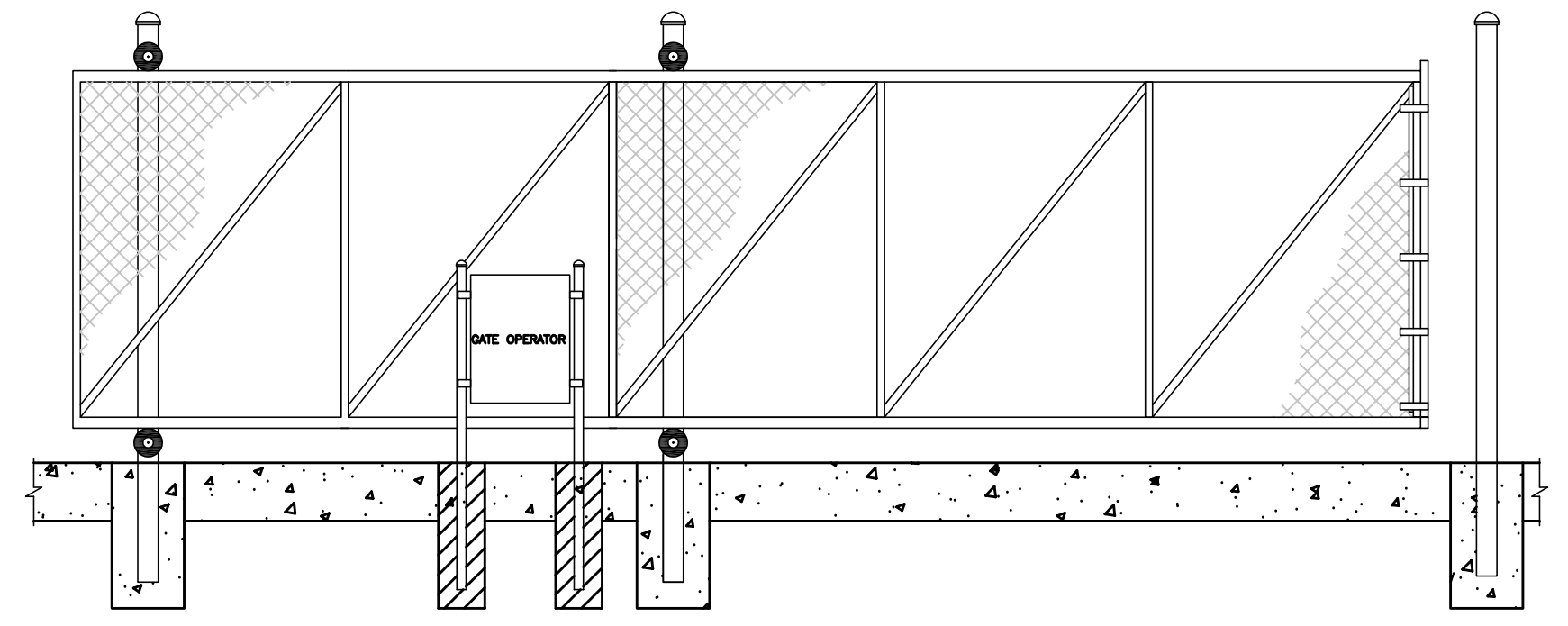
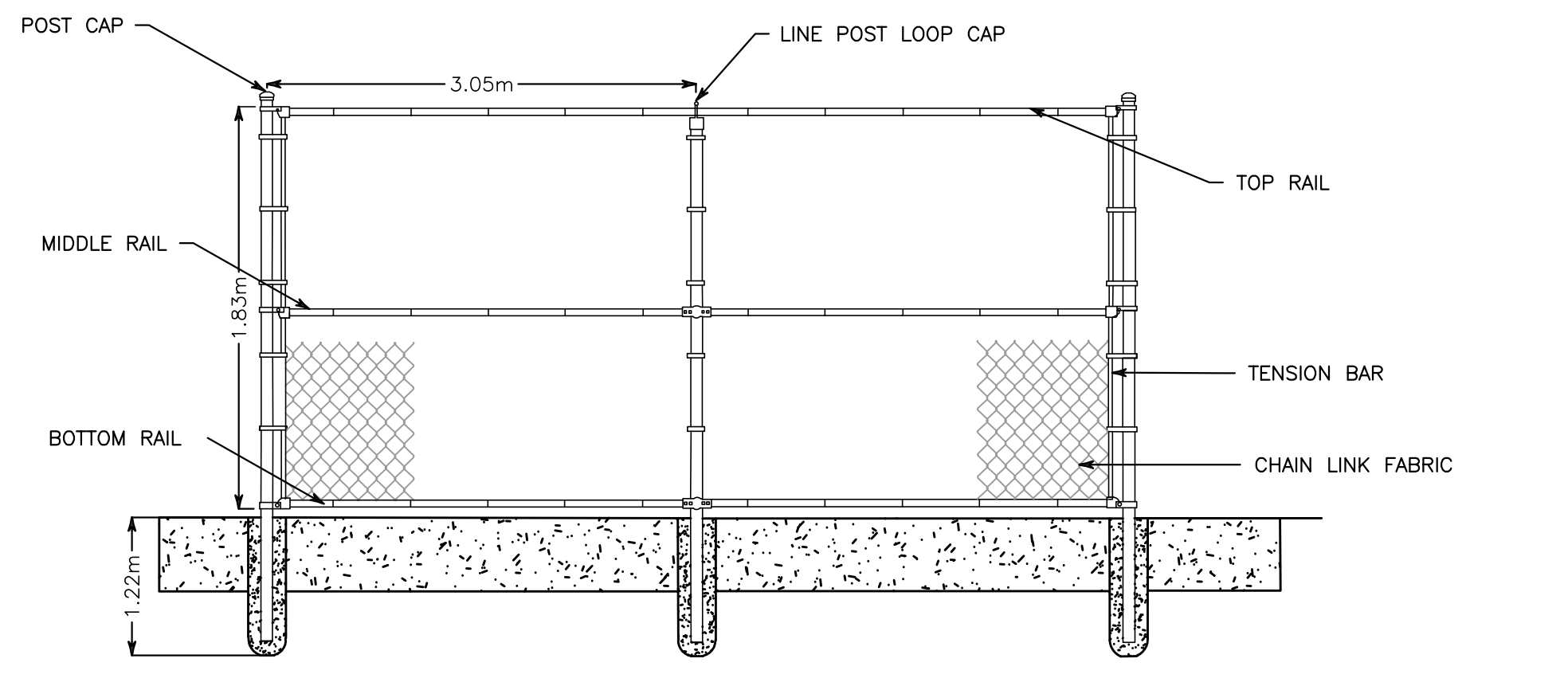
- NOTE:
- STRIP EXISTING ASPHALT
  - RE-GRADE AND SHAPE EXISTING ROAD BASE
  - PROOF ROLL USING FULLY LOADED TANDEM TRUCK. SOFT SPOTS TO BE EXCAVATED FULL DEPTH AND REPLACED WITH 300mm TYPE 2
  - BLENDED EXISTING LANDSCAPING ALONG EXISTING ROADWAY WITH MIN. 150mm x 150mm (WIDTH VARIES DEPENDING ON GRADE CHANGE) TOPSOIL AND HYDRO-SEED.

SECTION 2 - FULL DEPTH REHABILITATION - PARKING LOT AND SANDY COVE ROAD WIDENING SECTIONS



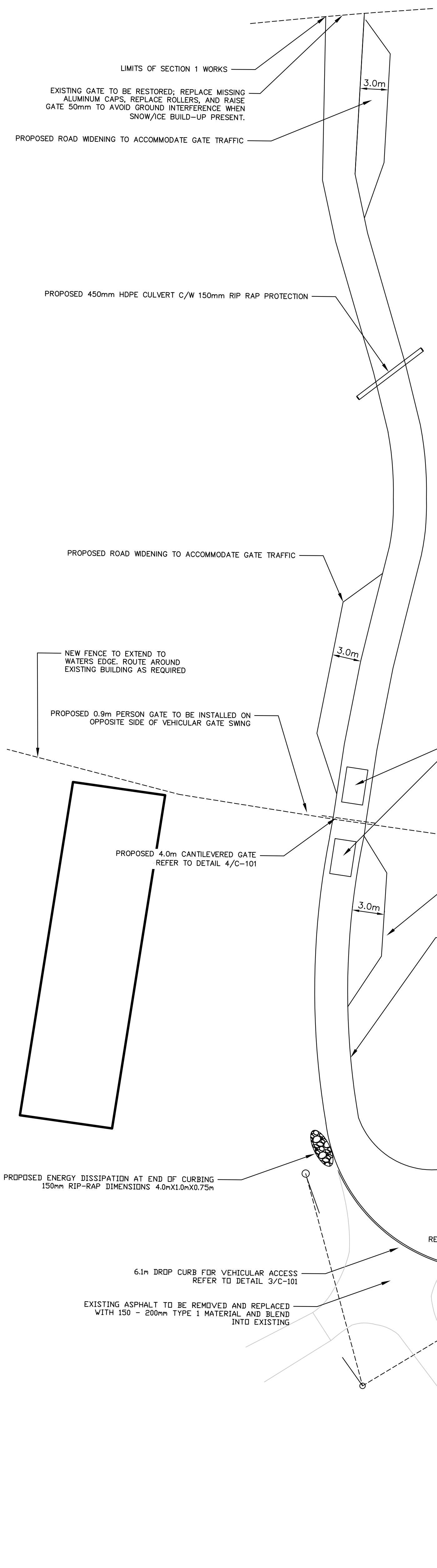
- NOTES:
- LINE "A" INDICATES CURB AT DRIVEWAYS.
  - LINE "B" INDICATES CURB AT PEDESTRIAN RAMPS.

CONC. CURB AND OUTER TYPICAL SECTION W/DROP



TYPICAL FENCE DETAIL

1. GATE MATERIALS STANDARDS
- OUTER FRAME - 2" O.D. SCH. 40 ALUMINUM.
  - INTERNAL FRAME - 1 1/2" O.D. SCH. 40 ALUMINUM.
  - TRUSS WHIP BAR - 1/2" ALUMINUM SQUARE TUBING.
  - FILL - 2" O.D. GALVANIZED FABRIC ATTACHED WITH 2 1/2" O.D. OFFSET BANDS.
  - ROLLER POSTS - 3/4" O.D. GALVANIZED.
  - ROLLERS - MASTER HALCO LOAD MASTER II.
2. OPERATOR - LIFTMASTER SL585UL C/W LIFTMASTER SS03AL SAFETY EDGE.
3. GROUND LOOPS, LOOP CONTROLLER TO BE INSTALLED BY FENCE/GATE CONTRACTOR DURING PHASE 2 OF CONSTRUCTION.
- ACCESS SCHEDULE:
- ENTERING - SWIPE CARD TO ENTER #4.
  - EXITING - FREE EXIT DURING OPERATING HOURS. SWIPE CARD TO EXIT OUTSIDE OF OPERATING HOURS. CONTRACTOR TO COORDINATE ACCESS SCHEDULING WITH FREEDOM SECURITY.
4. CONTRACTOR TO USE THE MOST WEATHER-RESISTANT HARDWARE AVAILABLE (E.G. STAINLESS STEEL) WHEREVER POSSIBLE.
- 4.1. CONTRACTOR TO PROVIDE SPECIFIC MAINTENANCE PROGRAM DOCUMENT OUTLINING BEST MAINTENANCE PRACTICE FOR ENSURING THE LONGEVITY OF THE NEW GATE & HARDWARE.



PROPOSED 1.83m CHAIN-LINK FENCE REFER TO DETAIL 3/C-101

APPROXIMATE LOCATION OF EXISTING TRANSFORMER PAD

PROPOSED LANDSCAPING C/W 100mm TOPSOIL AND SOO

PROPOSED LANDSCAPING C/W 150mm TOPSOIL AND SOO

EXISTING DRILLED WELL

PROPOSED CURB TO DIRECT STORM WATER REFER TO DETAIL 3/C-101 APPROXIMATE LENGTH 45.0m

EXISTING STEPS TO BE TEMPORARILY REMOVED DURING PAVING OPERATIONS. REINSTATE AS PER NBC UPON PAVING COMPLETION. ENSURE RISE OF FIRST STEP MEETS CODE REQUIREMENTS

CONTRACTOR TO ENSURE WATER RUNS AWAY FROM BUILDING, THERE CAN BE NO POOLING

BLEND IN PROPOSED GRADES WITH EXISTING GROUND SURFACE USING TOPSOIL AND HYDROSEED

REMOVE EXISTING CONCRETE PAD AND REPLACE WITH ASPHALT

6.1m DROP CURB FOR VEHICULAR ACCESS REFER TO DETAIL 3/C-101

EXISTING ASPHALT TO BE REMOVED AND REPLACED WITH 150 - 200mm TYPE 1 MATERIAL AND BLENDED INTO EXISTING

PROPOSED ROAD WIDENING TO ACCOMMODATE GATE TRAFFIC

PROPOSED GROUND LOOP SENSORS TO BE INSTALLED DURING PHASE 2. GATE OPEN TIME TO BE CONTROLLED BY A SAFE TIME DELAY UNTIL INSTALLATION OF GROUND LOOPS IMMEDIATELY PRIOR TO PAVING OPERATIONS. COORDINATE OPENING TIME WITH OWNER.

PROPOSED 4.0m CANTILEVERED GATE REFER TO DETAIL 4/C-101

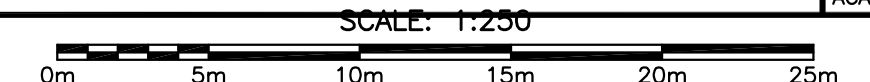
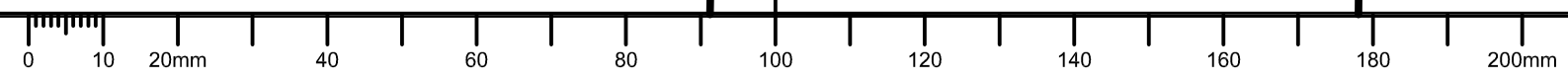
PROPOSED 0.9m PERSON GATE TO BE INSTALLED ON OPPOSITE SIDE OF VEHICULAR GATE SWING

NEW FENCE TO EXTEND TO WATERS EDGE. ROUTE AROUND EXISTING BUILDING AS REQUIRED

PROPOSED 450mm HDPE CULVERT C/W 150mm RIP RAP PROTECTION

EXISTING GATE TO BE RESTORED; REPLACE MISSING ALUMINUM CAPS, REPLACE ROLLERS, AND RAISE GATE 50mm TO AVOID GROUND INTERFERENCE WHEN SNOW/ICE BUILD-UP PRESENT.

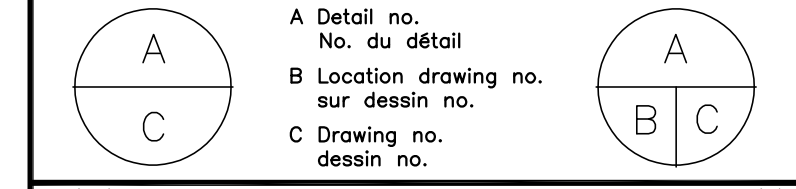
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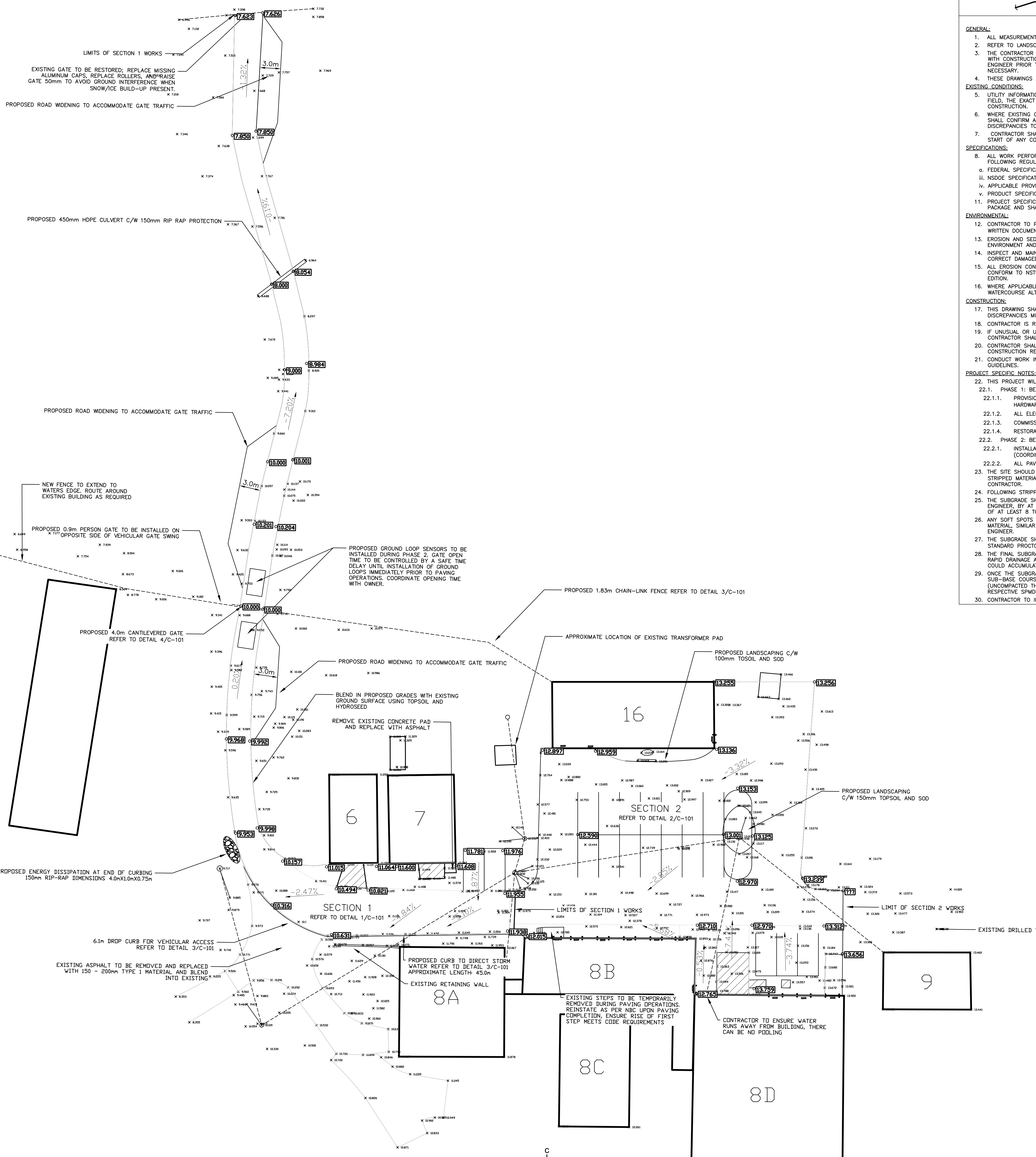
project: NATIONAL RESEARCH COUNCIL CANADA AQUACULTURE RESEARCH STATION SANDY COVE

drawing: PROPOSED SITE PLAN

designed	conçu	date	date
MAV		29/08/2019	
drawn	dessiné	scale	échelle
JCM		1:250	
checked	vérifié	sheet	feuille
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approved	approuvé	W.O.no.	D.T.no.
MAV			

dwg.no. C-102  
 ACAD file: C-102

dessin no. 5366  
 fichier CDAO: 5366



CONSTRUCTION NOTES  
SHEET A0X ONLY

DESIGN NOTES

**GENERAL:**

1. ALL MEASUREMENTS SHOWN IN METRIC UNITS OF METERS UNLESS OTHERWISE SHOW.
2. REFER TO LANDSCAPE OR GRADING PLAN FOR FINISHED GRADES.
3. THE CONTRACTOR SHALL CHECK AND VERIFY ALL PROPOSED DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION. ADJUSTMENTS WILL BE MADE BY THE ENGINEER AS NECESSARY.
4. THESE DRAWINGS ARE NOT AUTHORIZED FOR CONSTRUCTION UNLESS NOTED IN REVISION BLOCK.

**EXISTING CONDITIONS:**

5. UTILITY INFORMATION SHOWN IS APPROXIMATE ONLY. CONTRACTOR SHALL DETERMINE IN THE FIELD, THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
6. WHERE EXISTING CONDITIONS ARE NOT NECESSARILY ACCURATE OR COMPLETE, THE CONTRACTOR SHALL CONFIRM ALL EXISTING DIMENSIONS, ELEVATIONS AND LOCATIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
7. CONTRACTOR SHALL APPLY FOR AND OBTAIN APPROVAL FOR ALL REQUIRED PERMITS PRIOR TO START OF ANY CONSTRUCTION.

**SPECIFICATIONS:**

8. ALL WORK PERFORMED AND MATERIALS SUPPLIED SHALL BE IN ACCORDANCE WITH THE FOLLOWING REGULATORY AGENCIES AND SPECIFICATIONS:
  - i. FEDERAL SPECIFICATIONS AND REGULATIONS SHALL GOVERN FOR THIS PROJECT.
  - ii. NSDSE SPECIFICATIONS AND REGULATIONS.
  - iii. APPLICABLE PROVINCIAL AND FEDERAL SPECIFICATIONS AND REGULATIONS.
  - iv. PRODUCT SPECIFIC MANUFACTURERS INSTALLATION PROCEDURES AND SPECIFICATIONS.
9. PROJECT SPECIFIC WRITTEN SPECIFICATIONS MAY APPLY WHEN THEY FORM PART OF TENDER PACKAGE AND SHALL BE READ IN CONJUNCTION WITH THESE DESIGN PLANS.

**ENVIRONMENTAL:**

10. CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROL PLAN (SITE PLAN DRAWING AND WRITTEN DOCUMENTS) PRIOR TO COMMENCING WORK.
11. EROSION AND SEDIMENT TO BE CONTROLLED ACCORDING TO THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT AND LABOUR - EROSION AND SEDIMENTATION MANUAL.
12. INSPECT AND MAINTAIN EROSION MEASURES DAILY TO ENSURE PROPER OPERATION. IMMEDIATELY CORRECT DAMAGED OR NON-FUNCTIONING DEVICES.
13. ALL EROSION CONTROL DEVICES AND CONSTRUCTION OF ALL SEDIMENT CONTROL BARRIERS TO CONFORM TO NSTIR STANDARD SPECIFICATION FOR CONSTRUCTION AND MAINTENANCE, LATEST EDITION.
14. WHERE APPLICABLE, ALL CULVERT INSTALLATION WORK MUST CONFORM TO THE NOVA SCOTIA WATERCOURSE ALTERATION SPECIFICATIONS (2006).

**CONSTRUCTION:**

15. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ELECTRICAL DRAWINGS. ANY DISCREPANCIES MUST BE BROUGHT TO THE ENGINEERS' ATTENTION IMMEDIATELY.
16. CONTRACTOR IS RESPONSIBLE FOR SETTING GRADES AND LAYOUT CONTROL.
17. IF UNUSUAL OR UNANTICIPATED SITE CONDITIONS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL STOP RELATED WORK AND ADVISE THE ENGINEER IMMEDIATELY.
18. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AT LEAST 48HRS PRIOR TO STARTING ANY CONSTRUCTION RELATED ACTIVITIES.
19. CONDUCT WORK IN ACCORDANCE WITH OCCUPATIONAL HEALTH AND SAFETY REGULATIONS AND GUIDELINES.

**PROJECT SPECIFIC NOTES:**

20. THIS PROJECT WILL BE CONSTRUCTED IN PHASES:
  - 20.1. PHASE 1: BEGINNING UPON AWARDDING OF PROJECT.
    - 20.1.1. PROVISION OF FENCE, SECURITY GATE, AND ALL ASSOCIATED SECURITY/ACCESS HARDWARE (SEE ELECTRICAL DRAWINGS) EXCEPT GROUND LOOP SENSORS.
    - 20.1.2. ALL ELECTRICAL WORK OUTLINED IN ELECTRICAL DRAWINGS (BY ELECTRICAL).
    - 20.1.3. COMMISSIONING OF NEW SECURITY/ACCESS HARDWARE. (BY SECURITY)
    - 20.1.4. RESTORATION OF EXISTING GATE.
  - 20.2. PHASE 2: BEGINNING APRIL/MAY 2020.
    - 20.2.1. INSTALLATION & COMMISSIONING OF GROUND LOOP SENSORS FOR SECURITY GATE (COORDINATE WITH PAVING OPERATIONS).
    - 20.2.2. ALL PAVING OPERATIONS AND REMAINING CIVIL WORK.
21. THE SITE SHOULD BE STRIPPED OF ALL ASPHALT WITHIN THE DEFINED PROJECT BOUNDARIES. ALL STRIPPED MATERIAL (ASPHALT, CONCRETE, ETC.) SHALL BE REMOVED FROM SITE BY THE CONTRACTOR.
22. FOLLOWING STRIPPING, THE SITE SHOULD BE GRADED TO THE SUBGRADE LEVEL AND APPROVED.
23. THE SUBGRADE SHOULD THEN BE PROOF-ROLLED, IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, BY AT LEAST SEVERAL PASSES OF A HEAVY COMPACTOR HAVING A RATED CAPACITY OF AT LEAST 8 TONNES.
24. ANY SOFT SPOTS THUS EXPOSED SHOULD BE REMOVED AND REPLACED BY SELECT FILL MATERIAL, SIMILAR TO THE EXISTING SUBGRADE SOIL AND APPROVED BY THE GEOTECHNICAL ENGINEER.
25. THE SUBGRADE SHOULD THEN BE RECOMPACTED FROM THE SURFACE TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
26. THE FINAL SUBGRADE SHOULD BE CAMBERED OR OTHERWISE SHAPED PROPERLY TO FACILITATE RAPID DRAINAGE AND TO PREVENT THE FORMATION OF LOCAL DEPRESSIONS IN WHICH WATER COULD ACCUMULATE.
27. ONCE THE SUBGRADE HAS BEEN INSPECTED AND APPROVED, THE GRANULAR BASE AND SUB-BASE COURSE MATERIALS SHOULD BE PLACED IN LAYERS NOT EXCEEDING 200 MM (UNCOMPACTED THICKNESS) AND SHOULD BE COMPACTED TO AT LEAST 100% OF THEIR RESPECTIVE SPMDD.
28. CONTRACTOR TO INCLUDE LINE PAINTING FOR 19 PARKING STALLS MEASURING 6.1m x 3m



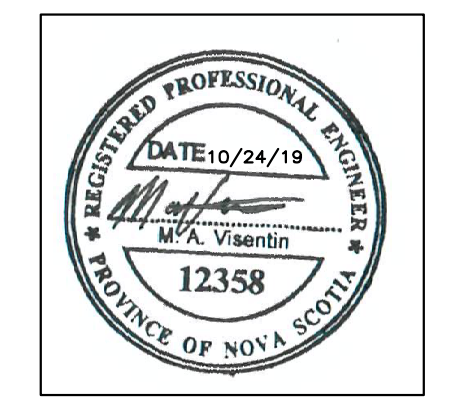
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1	29/08/2019	ISSUED FOR 50% REVIEW	BY: PGT
2	18/09/2019	ISSUED FOR 90% REVIEW	MV
3	01/10/2019	ISSUED FOR 95% REVIEW	MV
4	24/10/2019	ISSUED FOR TENDER	MV

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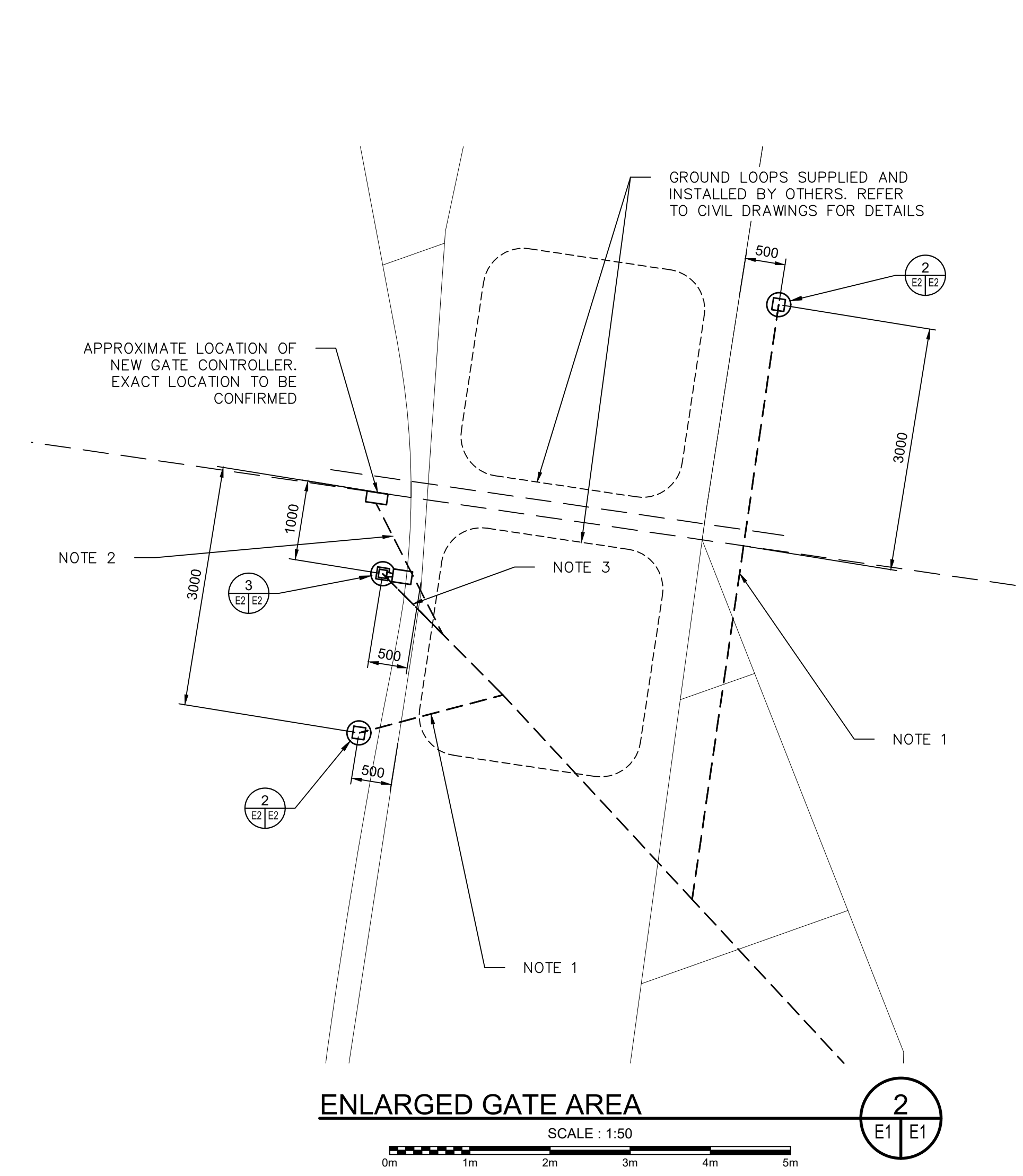
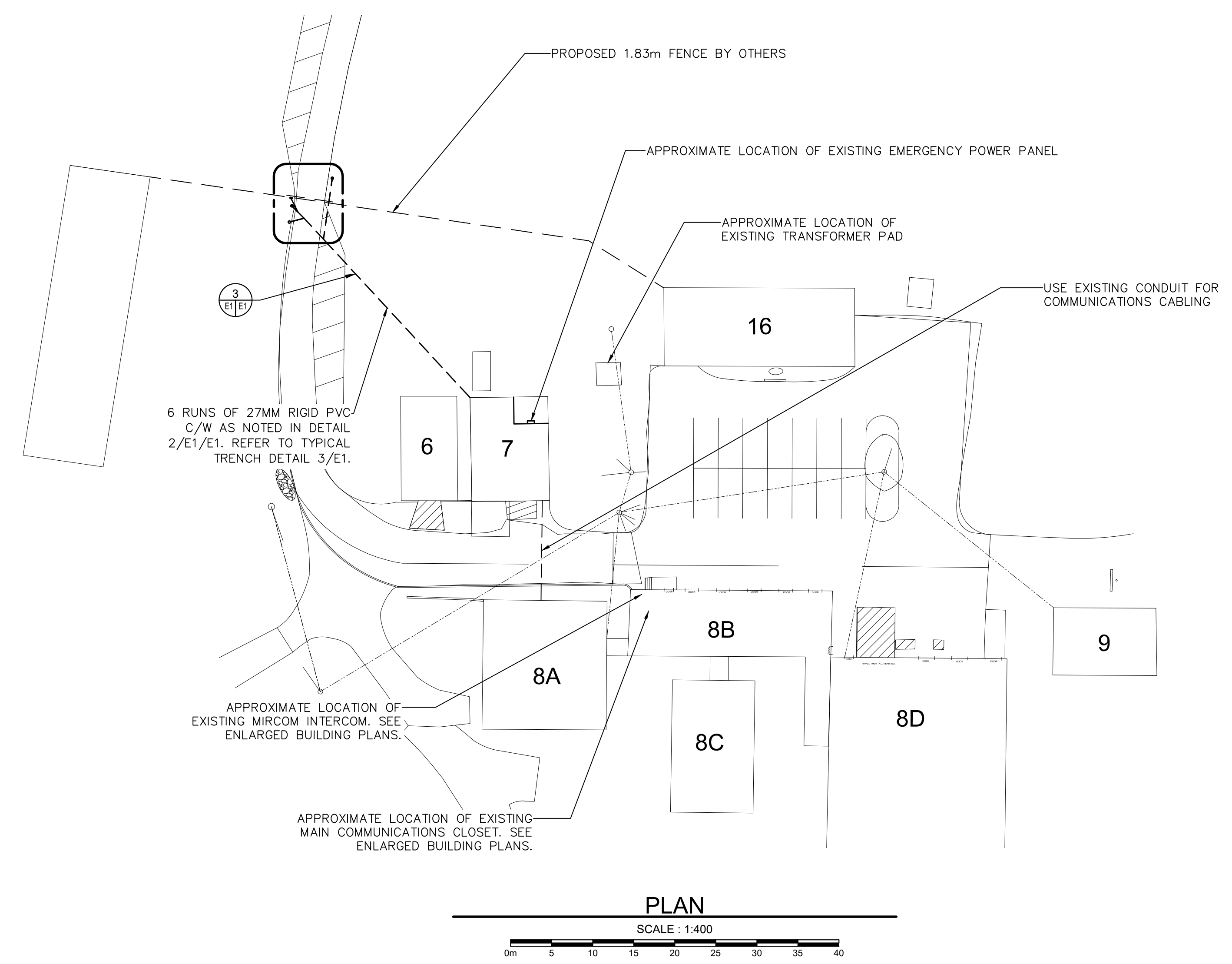
project NATIONAL RESEARCH COUNCIL CANADA AQUACULTURE RESEARCH STATION SANDY COVE project

drawing PROPOSED GRADING PLAN dessin

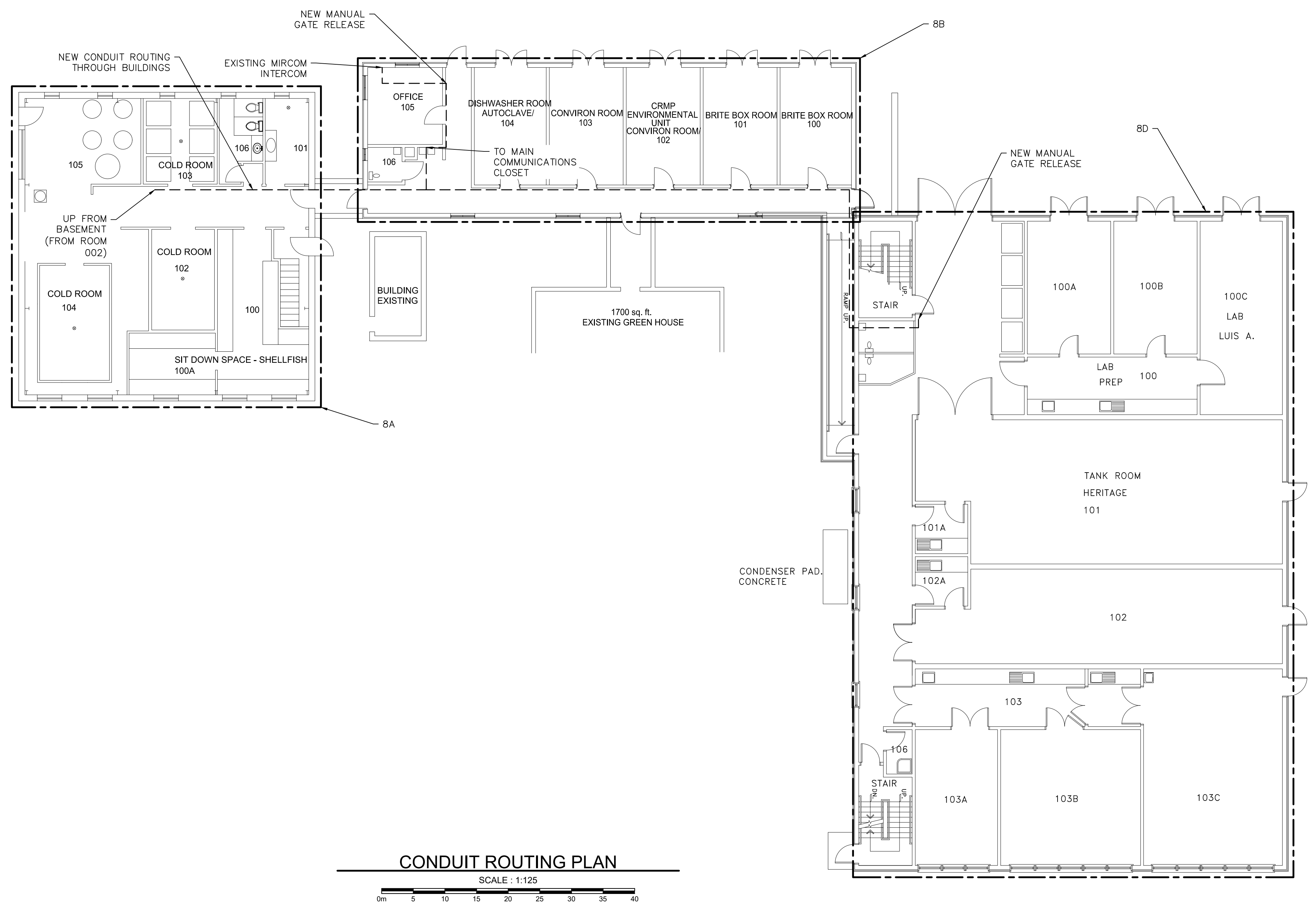
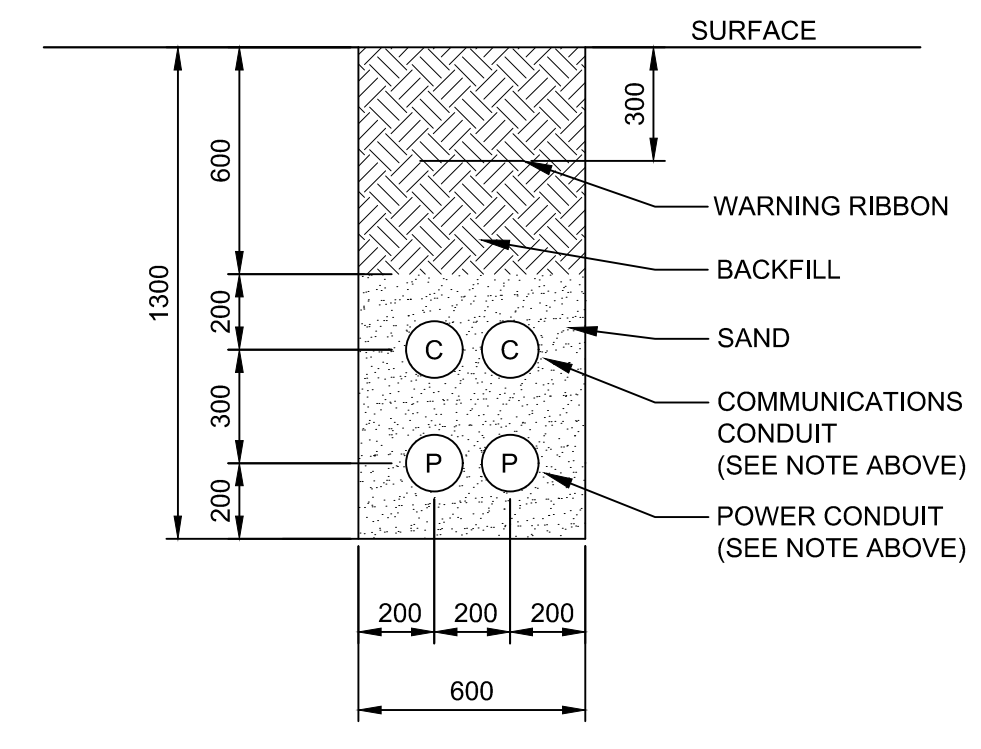
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TRENCH DETAIL IS TYPICAL ONLY. THE NUMBER OF CONDUIT/CABLE RUNS SHOWN MAY NOT MATCH THE NUMBER REQUIRED. REFER TO PLAN NOTES AND TRENCH NOTES FOR EXACT NUMBER OF RUNS REQUIRED.

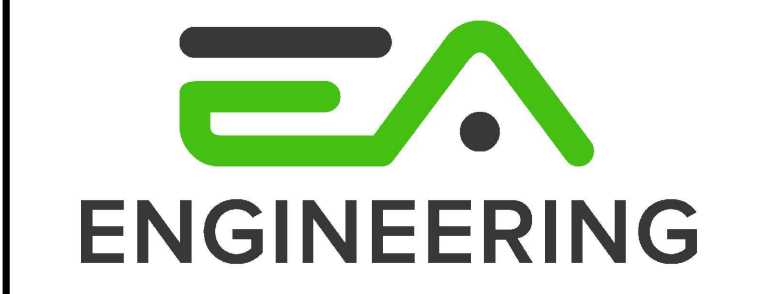


TRENCH NOTES	
1	ONE 27MM RIGID PVC CONDUIT C/W: - ONE RUN OF RS-485 CABLE FOR INTERCOMS. EXTEND CABLE BACK TO EXISTING MIRCOM INTERCOM IN BUILDING 8B OFFICE 105. - TWO RUNS OF 622 SHIELDED CABLE FOR CARD READERS. EXTEND CABLES BACK TO EXISTING CONTROL PANEL IN BUILDING 7.
2	ONE 27MM RIGID PVC CONDUIT C/W 3C#10 PLUS BOND (GATE POWER) AND ONE 27MM RIGID PVC C/W 2C#16 (GATE CONTROL). GATE POWER WIRING TO EXTEND BACK TO EXISTING EMERGENCY POWER PANEL IN BUILDING 7 AND GATE CONTROL WIRING TO EXTEND BACK TO EXISTING CONTROL PANEL IN BUILDING 7.
3	ONE 27MM RIGID PVC CONDUIT C/W 2C#10 PLUS BOND (LIGHT) AND ONE 27MM RIGID PVC C/W ONE CATEGORY 6 CABLE (CAMERA). LIGHT WIRING TO EXTEND BACK TO EXISTING EMERGENCY POWER PANEL IN BUILDING 7 AND CAMERA CABLE TO EXTEND BACK TO EXISTING MAIN COMMUNICATIONS CLOSET IN BUILDING 8B. USE EXISTING CONDUIT BETWEEN BUILDING 7 AND 8A.

**FREEDOM SECURITY SCOPE NOTES**  
 FREEDOM SECURITY TO SUPPLY AND INSTALL NEW ACCESS CONTROL, SECURITY AND COMMUNICATION DEVICES INCLUDING CARD READERS, INTERCOMS AND SECURITY CAMERA.  
 NEW ACCESS CONTROL AND COMMUNICATIONS DEVICES TO WORK WITH EXISTING SYSTEMS. THE GATE SHALL BE ABLE TO BE OPENED FROM BOTH THE SANDY COVE FACILITY AND THE OXFORD ST. HEAD OFFICE.



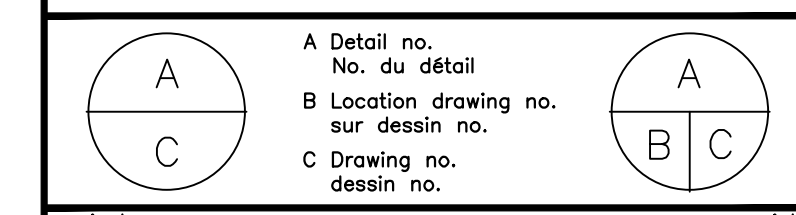
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2	04 11 2019	ISSUED FOR TENDER	NM
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0	06 09 2019	ISSUED FOR 50% REVIEW	NM

Date Printed: 06 09 2019 Date imprimée:

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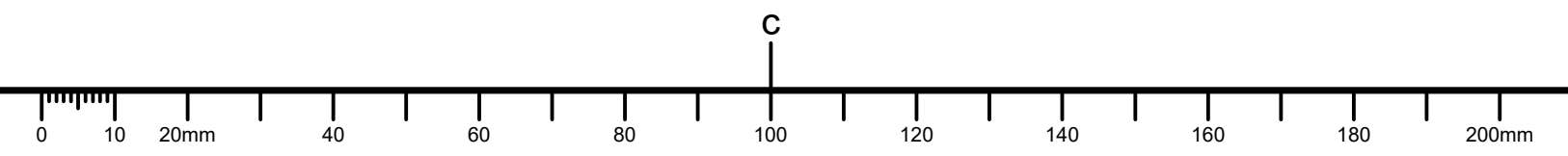


Project: NATIONAL RESEARCH COUNCIL CANADA AQUACULTURE RESEARCH STATION SANDY COVE

Drawing: ELECTRICAL SITE PLAN

designed	conçu	date	2019-09-05	date
drawn	dessiné	scale	AS NOTED	échelle
checked	vérifié	sheet	E1 of/da E2	feuille
approved	approuvé	W.O.no.	5366	D.T.no.
dwg.no.				dessin no.

E1



GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.



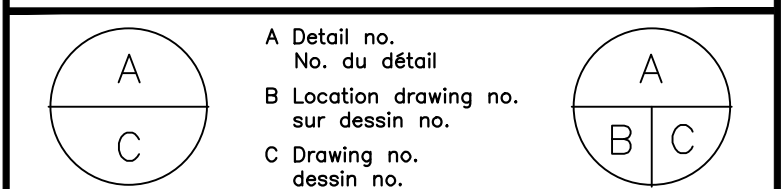
KEY PLAN PLAN CLÉ



2	04 11 2019	ISSUED FOR TENDER	NM
1	18 09 2019	ISSUED FOR 90% REVIEW	NM
0	06 09 2019	ISSUED FOR 50% REVIEW	NM

No. Date Revision By:   
 Date Printed: 06 09 2019 Date imprimée:

- Verify all dimensions and site conditions and be responsible for same.
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.



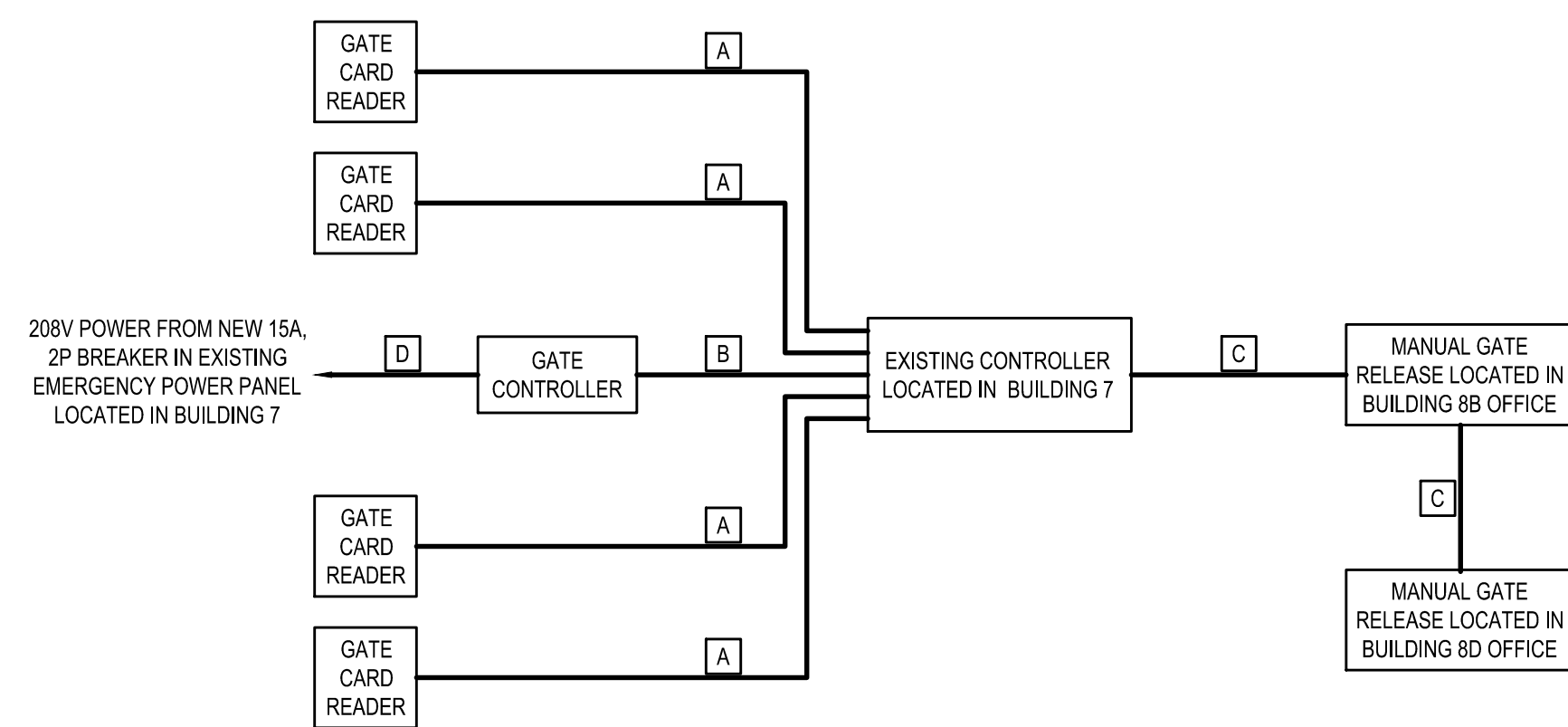
project: NATIONAL RESEARCH COUNCIL CANADA AQUACULTURE RESEARCH STATION SANDY COVE

drawing: ELECTRICAL DETAILS

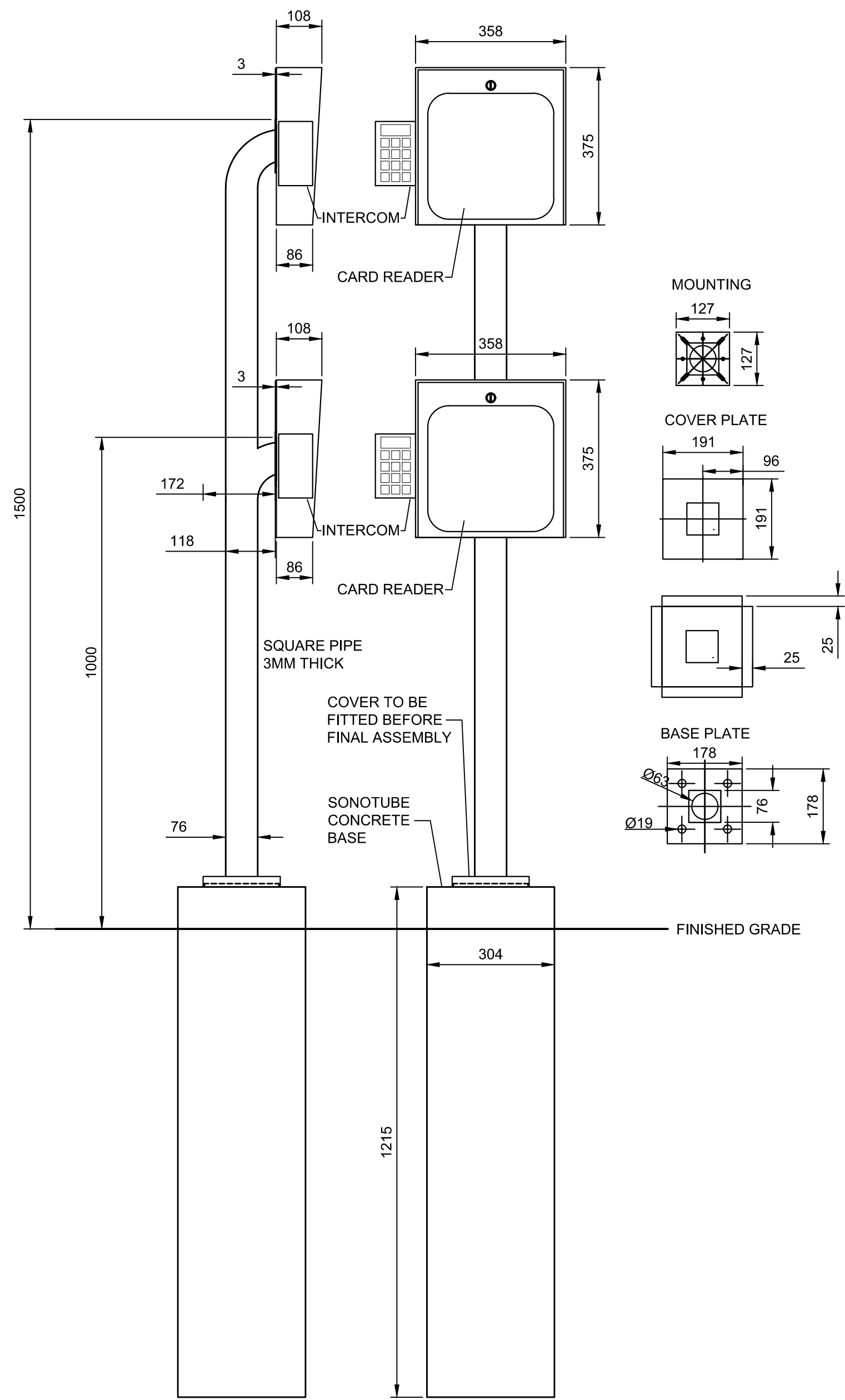
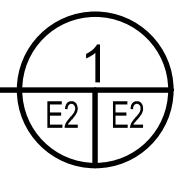
designed	CM	conçu	date	2019-09-05	date
drawn	NM	dessiné	scale	AS NOTED	échelle
checked		vérifié	sheet	E2 of/du E2	feuille
approved	CM	approuvé	W.O.no.	5366	D.T.no.
dwg.no.	E2	dessin no.			

ITEM	DESCRIPTION
A	ONE RUN OF 622 SHIELDED CABLE.
B	ONE RUN OF 2C#16 AWG, SHIELDED.
C	ONE RUN OF 2C#16 AWG, SHIELDED.
D	ONE RUN OF 3C#10 AWG, CU IN 27MM RIGID PVC.

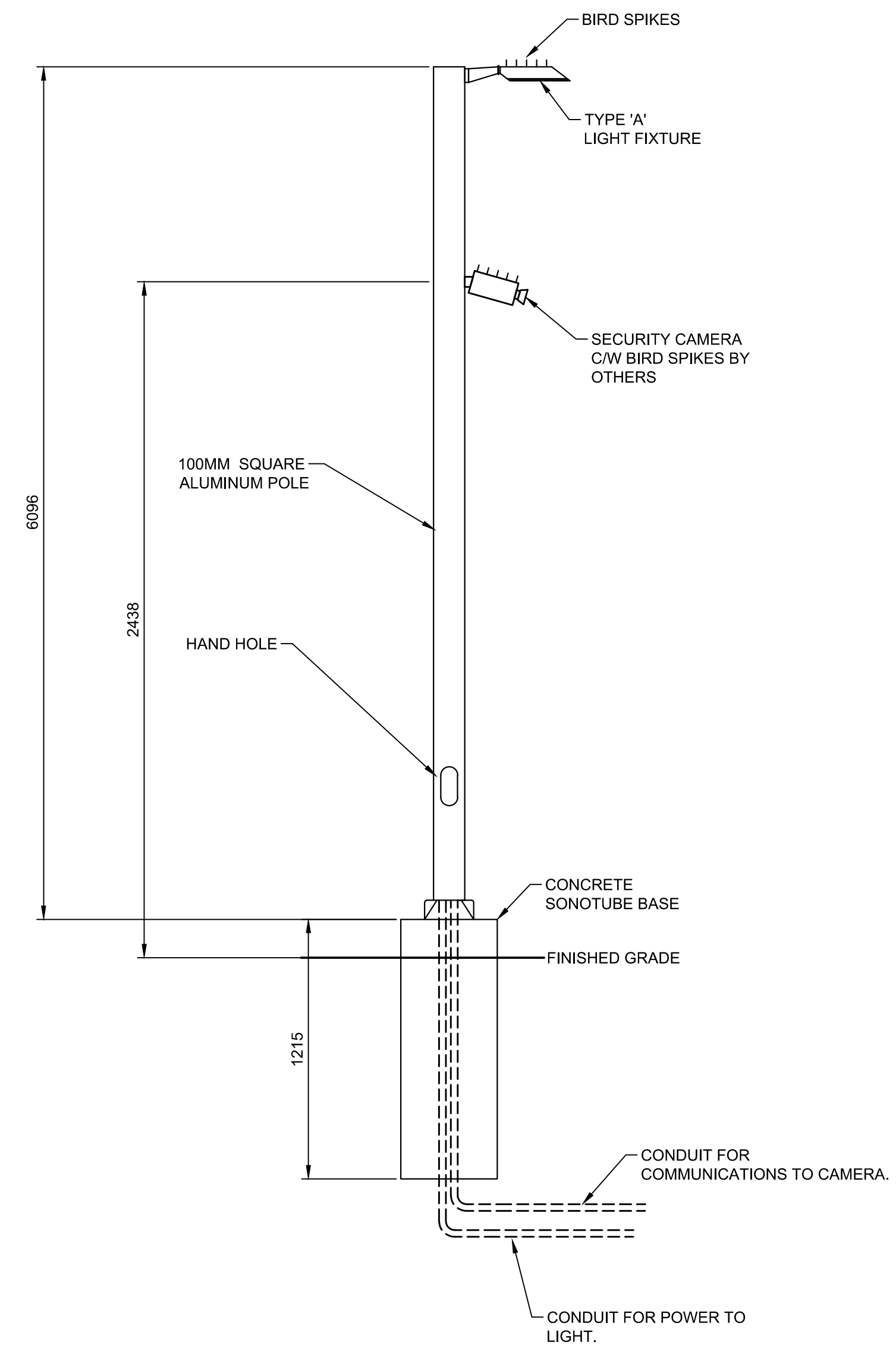
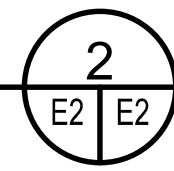
ACCESS CONTROL NOTES  
 ENTRANCE TO BE CARD SWIPE ACCESS ONLY AT ALL TIMES. EXIT TO BE AUTOMATIC BY MEANS OF GROUND LOOP DETECTION DURING NORMAL OPERATING HOURS AND CARD SWIPE TO EXIT OUTSIDE OF NORMAL OPERATING HOURS.



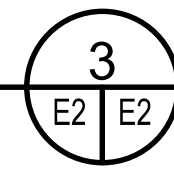
ACCESS CONTROL SCHEMATIC  
 SCALE: NTS



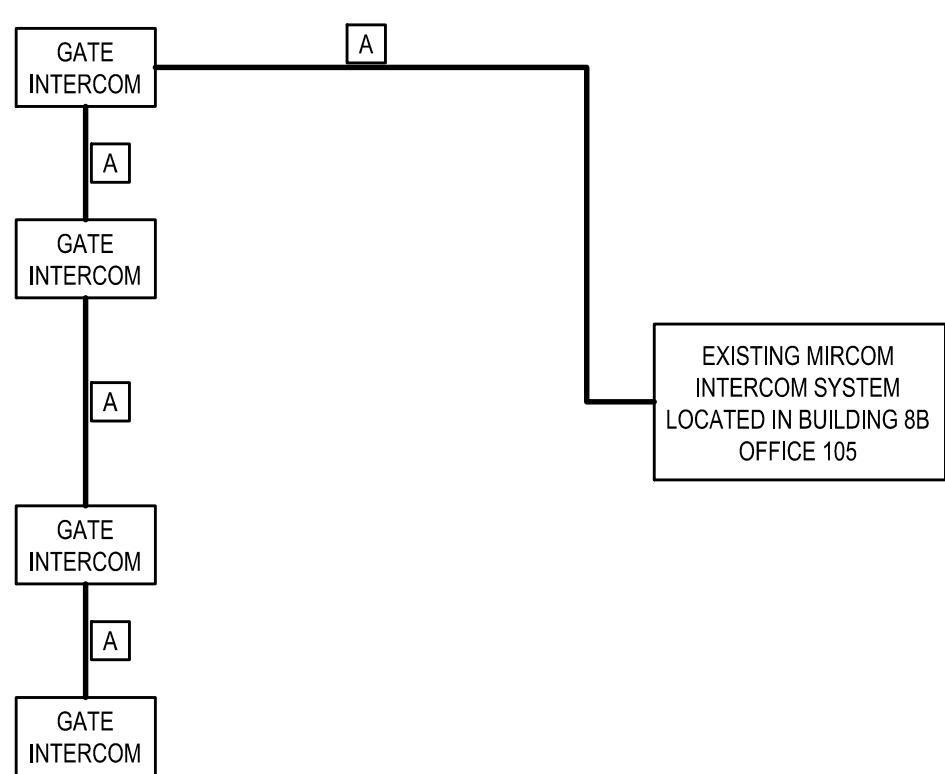
ACCESS CONTROL POST DETAIL  
 SCALE: NTS



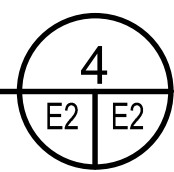
LIGHT STANDARD DETAIL  
 SCALE: NTS



ITEM	DESCRIPTION
A	ONE RUN OF RS-485 WIRING.



INTERCOM SCHEMATIC  
 SCALE: NTS



TAG	DESCRIPTION	LAMPS	VOLTS	MOUNTING	MOUNTING HEIGHT	WATTAGE	LPW	ACCEPTED ALTERNATIVES
A	OUTDOOR POLE MOUNTED FIXTURE, WITH TYPE 5 WIDE DISTRIBUTION, 4000K 12,000 LUMENS, BLACK IN COLOR C/W BIRD SPIKES.	LED	120	POLE	AS INDICATED	-	MIN 120	-

