

1 EXISTING AREA OF THE SECURITY TOWER AND SALLYPORT CB05 - DEMOLITION WORK
SCALE: 1:50

GENERAL NOTES

1. SENSTAR SHALL BE RETAINED BY THE CONTRACTOR TO UNDERTAKE AND COMPLETE WORK ON THE SECURITY FENCE, FENCE DETECTION AND GATE CONTACTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL WORKS WITH ALL OTHER TRADES. FURTHER REFERENCES TO "CONTRACTOR" SHALL TAKE REFERENCE TO THE REQUIRED WORK TO BE COMPLETED BY SENSTAR (AS ABOVE).
2. THE REPLACEMENT OF THE INNER AND OUTER GATES MAY BE CARRIED OUT AT THE SAME TIME AND PLANNED BY THE CONTRACTOR. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH THE OTHER TRADES AND ASSIST THEM. THE SECURITY PERIMETER SYSTEM MUST BE MAINTAINED AND OPERATIONAL AT ALL TIMES.
3. THE EXISTING INNER GATE AND ASSOCIATED CHAIN LINK FENCE SHALL BE REMOVED ONLY AFTER THE NEW SLIDING GATE AND NEW FENCE ARE IN PLACE AND THE NEW GATE IS FULLY OPERATIONAL.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF THE EXISTING MARK I CABLE BETWEEN EXISTING FDS PROCESSORS. THE SUPPLY AND INSTALLATION OF THE MARK II CABLE, THE COMMISSIONING AND TESTING OF THE FDS SYSTEM PRIOR TO THE DEMOLITION OF THE EXISTING INNER. THE FDS SYSTEM SHALL BE FULLY OPERATIONAL AND FUNCTIONAL AT ALL TIMES IN ORDER NOT TO COMPROMISE THE PERIMETER SECURITY SYSTEM AT THE INSTITUTION.
5. ELECTRICAL WIRING, CABLING AND EQUIPMENT ARE SHOWN ON PLANS DIAGRAMACALLY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ON SITE FOR THEIR EXACT LOCATION AND THE IDEAL PASSAGE OF CONDUITS AND WIRING.
6. SOME GATE INFORMATION OR REQUIREMENTS SHOWN ON PLANS ARE TYPICAL AND MAY BE DIFFERENT FROM ONE MANUFACTURER TO THE OTHER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL INFORMATION AND ADJUST HIS WORK TO MATCH CHOSEN GATE MANUFACTURER.

DRAWINGS NOTES

1. EXISTING FENCE DETECTION SYSTEM (FDS) CABLE TYPE MARK I TO BE REPLACED WITH MARK II BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SYSTEM IS OPERATIONAL AT ALL TIMES DURING WORK IN ORDER NOT TO COMPROMISE THE INSTITUTION PERIMETER SECURITY SYSTEM AND BE REPLACED AT THE END WITH A MARK II CABLE. THE PORTION OF FDS CABLE TO BE REPLACED UNDER CONTRACT IS BETWEEN THE TWO NEAREST FDS CONNECTION BOXES.
2. INNER AND OUTER GATES TO BE REMOVED AND REPLACED WITH NEW GATES BY THE GATE SUPPLIER / CONTRACTOR. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ORGANIZE HIS WORK IN PHASES WITH THE OTHER DISCIPLINES TO DE-ENERGIZE AND REMOVE THE EXISTING CABLING AND CONDUITS AND TO REPLACE WITH NEW CABLING AND CONDUITS AS SHOWN ON CONSTRUCTION DETAILS.
3. EXISTING LOCAL CONTROLLER OUT BUILDING TO BE COMPLETELY DEMOLISHED AS PER DIVISION 02. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASSIST DURING THE DEMOLITION BY ENSURING THAT NO EQUIPMENT INSIDE OR OUTSIDE THIS BUILDING ARE ENERGIZED.
4. EXISTING JUNCTION BOX THAT FEEDS THE EXISTING LOCAL CONTROLLER OUT BUILDING. DISCONNECT ALL FEEDERS AND REMOVE WIRING TO ITS SOURCE. ENSURE THAT NO OTHER UNKNOWN FEEDERS ARE FEEDING THIS BUILDING BY TESTING EACH EXISTING ELECTRICAL DEVICE.
5. EXISTING CONTROL AND HYDRAULIC PANELS TO BE REMOVED BY THE GATE SUPPLIER / CONTRACTOR. DISCONNECT FEEDERS AND REMOVE ALL CONTROL AND POWER FEEDERS AND CONDUITS TO SOURCE.
6. EXISTING GATE CONTROLLER LOCATED ON THE UPPER LEVEL OF THE SECURITY TOWER TO BE REMOVED BY THE CONTRACTOR UNDER CONTROL OF DEPT. REP.

LEGEND

- | | |
|----|----------------------------------|
| EE | EXISTING TO REMOVE |
| | DISCONNECT 30A |
| | DISTRIBUTION PANEL 600V / 3 PH |
| | JUNCTION BOX |
| | PROCESSOR |
| | CONNECTOR IDENTIFICATION |
| | CONDUIT NOMINAL DIAMETER |
| | SIZE OF BONDING CONDUCTOR IN AWG |
| | NUMBER OF CONDUCTORS |
| | SIZE OF CONDUCTORS IN AWG |
| | NEW OR IN SCOPE OF WORK |
| | TO BE REMOVED |
| | NOT IN SCOPE OF WORK |



revision	date
01	ISSUED FOR TENDER 2016-07-06
00	ISSUED FOR TENDER 2016-02-12
0E	ISSUED FOR FINAL REVIEW 2015-12-18
0D	ISSUED FOR FINAL REVIEW 2015-10-13
0C	ISSUED FOR FINAL REVIEW 2015-08-17
0B	ISSUED FOR FINAL REVIEW 2015-06-15
0A	ISSUED FOR 66% REVIEW 2015-04-30

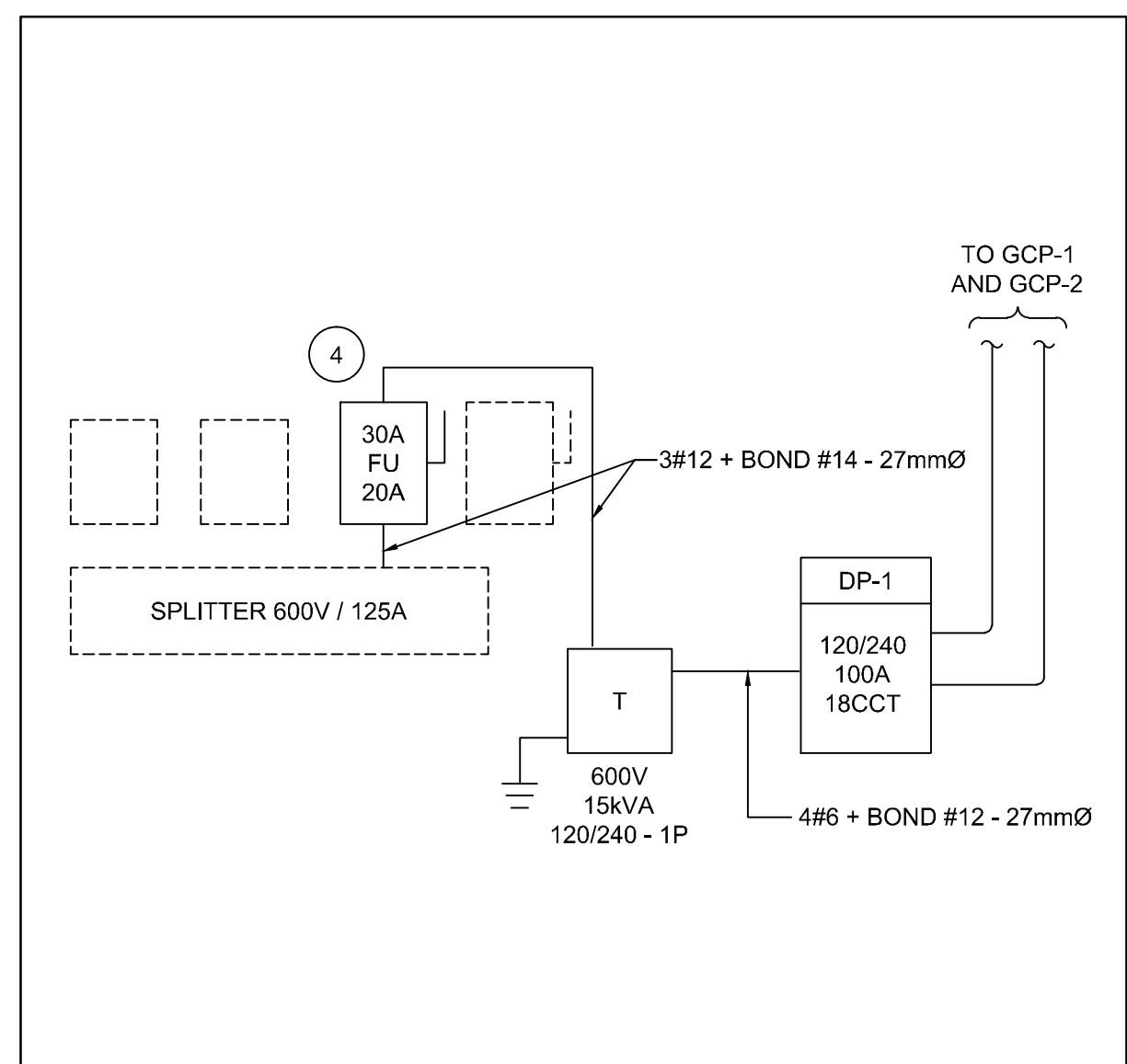
Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.

	A Detail No. No. du détail
	B drawing no. - where detail required dessin no. - où détail exigé
	C drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
Kingston Ontario
1455 Bath Road, Kingston,
Ontario, K7M 7W9
Collins Bay Institution
Secondary Sallyport Replacement

DEMOLITION - ELECTRICAL

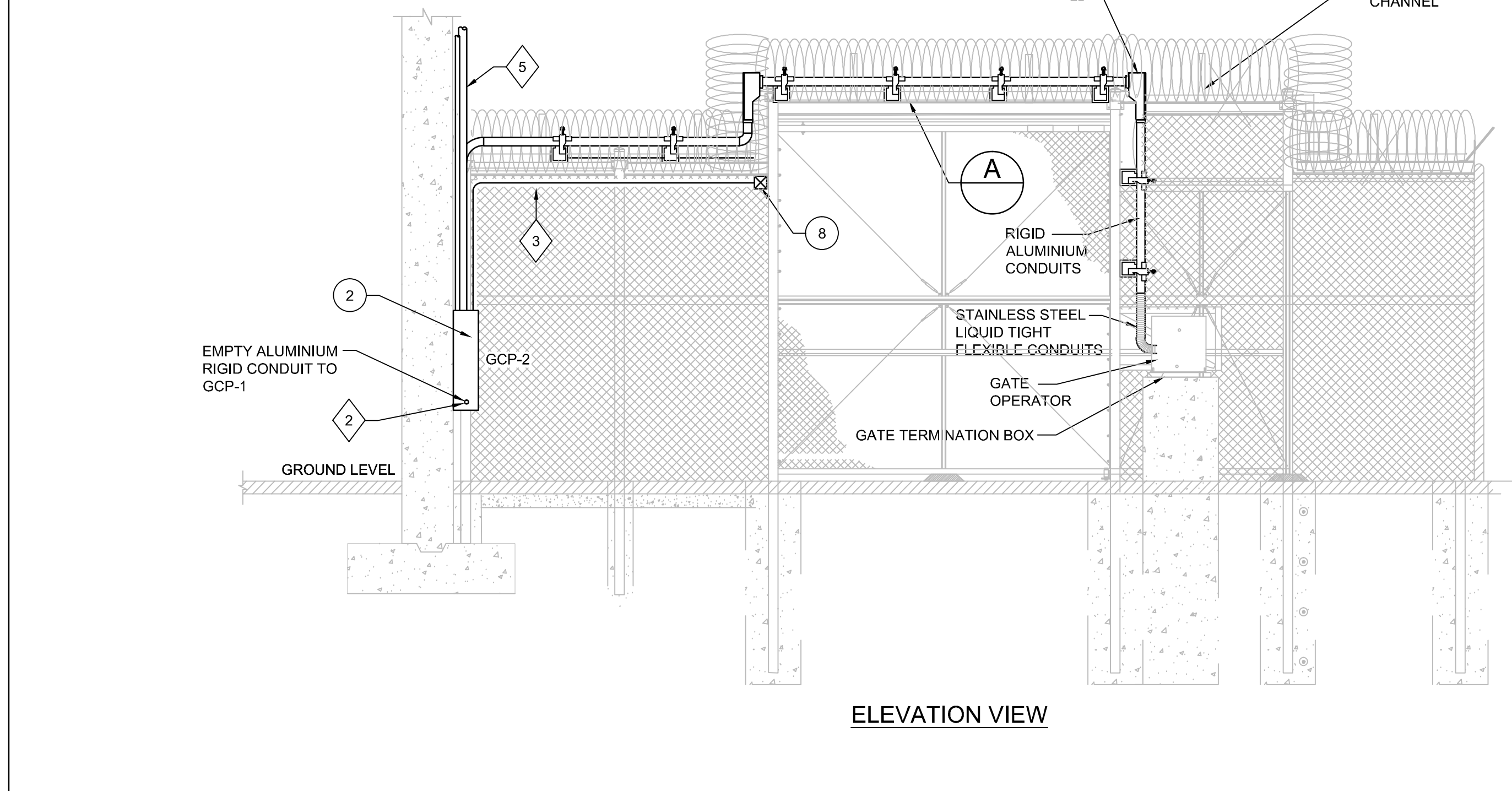
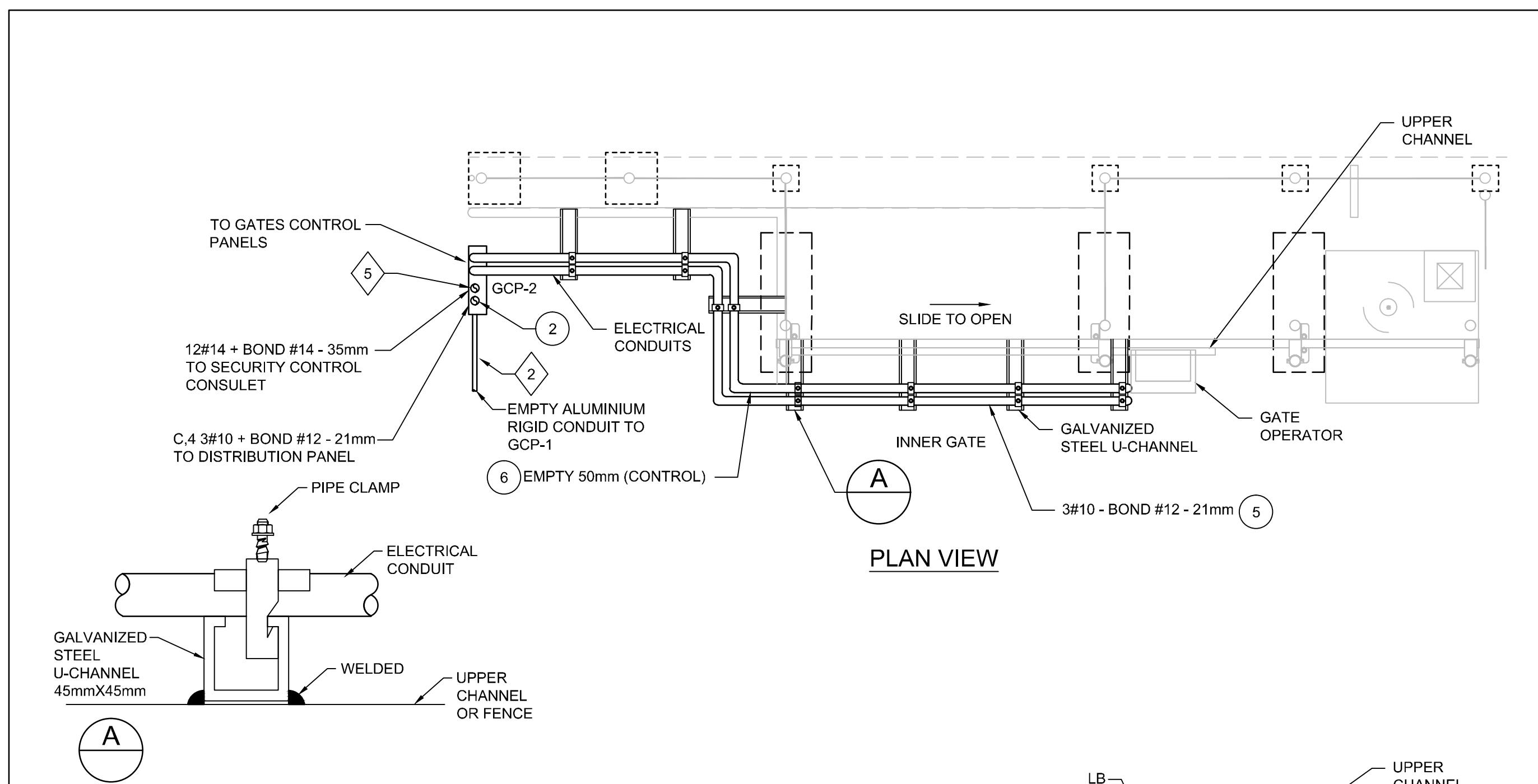
drawn by dessiné par	DANIEL GINGRAS
designed by conc par	RICHARD ST-LOUIS
approved by approuvé par	LANCE GOODICK, P. Eng.
tender soumission	ROBERT TODD
project manager administrateur de projets	
project date date du projet	2014-09-05
project no. no. du projet	R.69656.001
drawing no. dessiné no.	E001



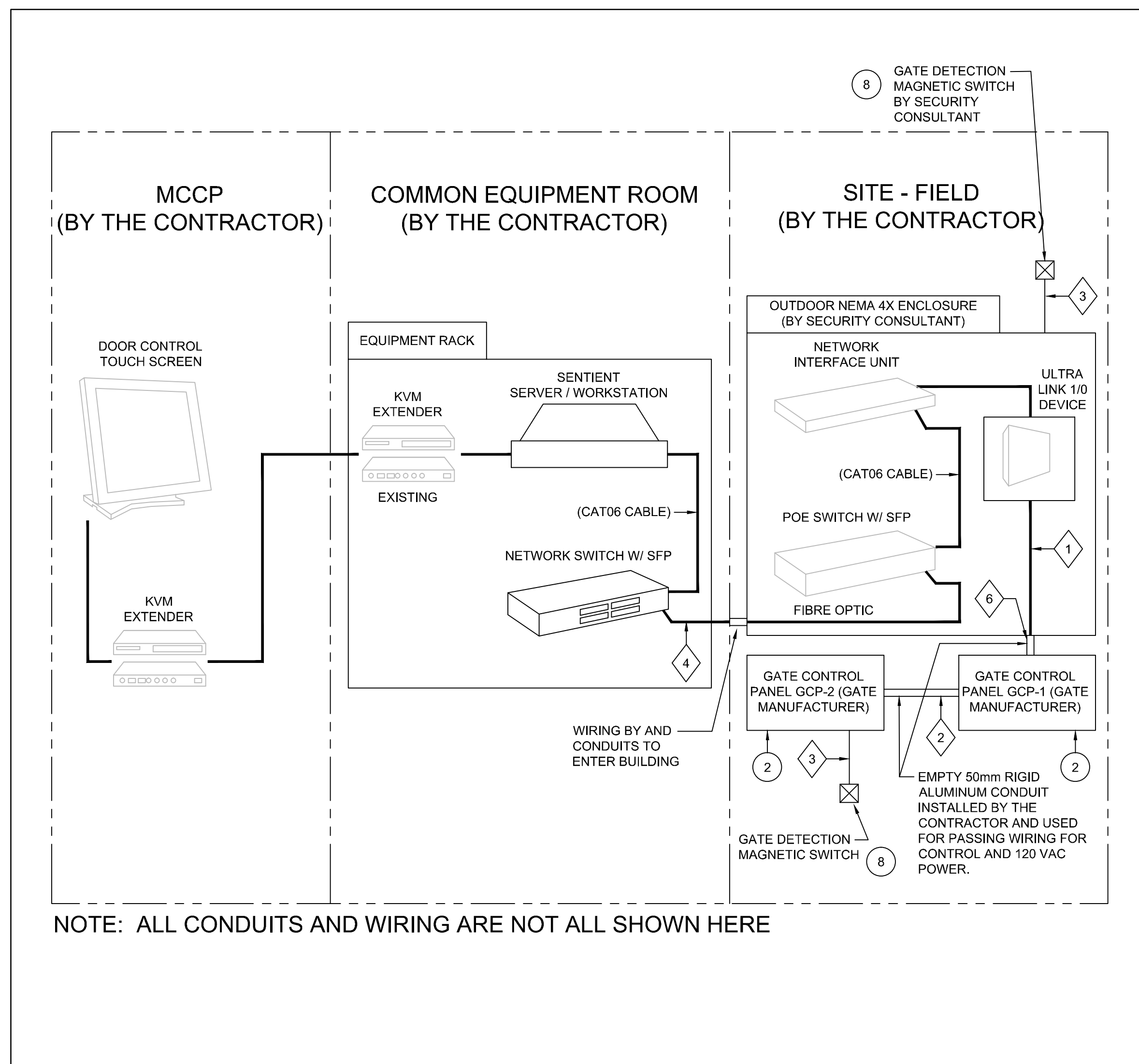
MODIFICATION TO EXISTING ELECTRICAL DISTRIBUTION INSIDE SECURITY TOWER CB05
E002 SCALE: NONE



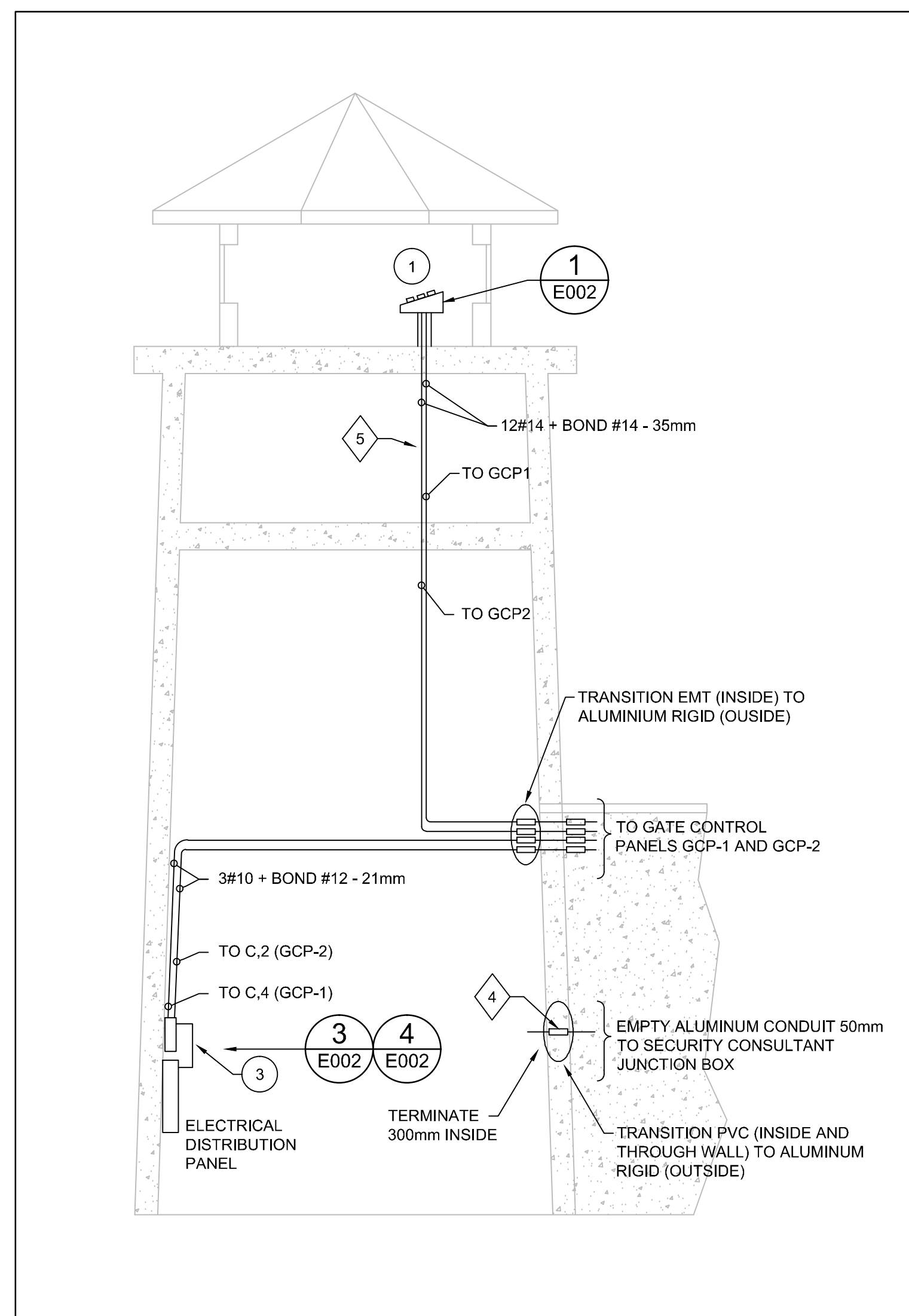
EXISTING DISTRIBUTION IN SECURITY TOWER CB05 TO BE MODIFIED
E002 SCALE: NONE



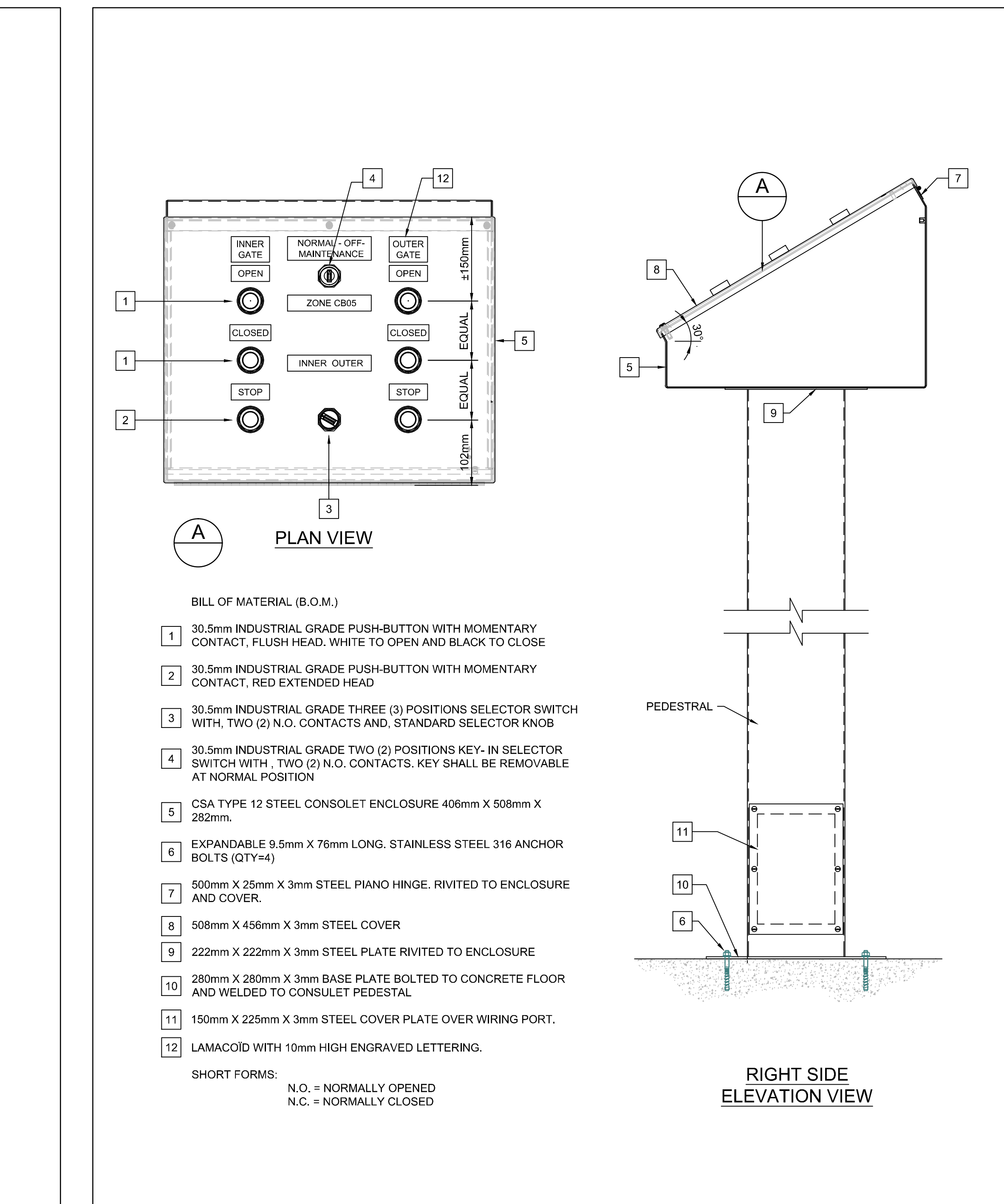
INNER GATE - PROPOSED ELECTRICAL WORK AND METHOD OF CABLING
E002 SCALE: 1:50



SALLY PORT TO MCCP COMMUNICATION I/O SYSTEM DIAGRAM BY THE CONTRACTOR
E002 SCALE: NONE



PROPOSED ELECTRICAL WORK IN SECURITY TOWER CB05 - SECTION VIEW
E002 SCALE: NONE



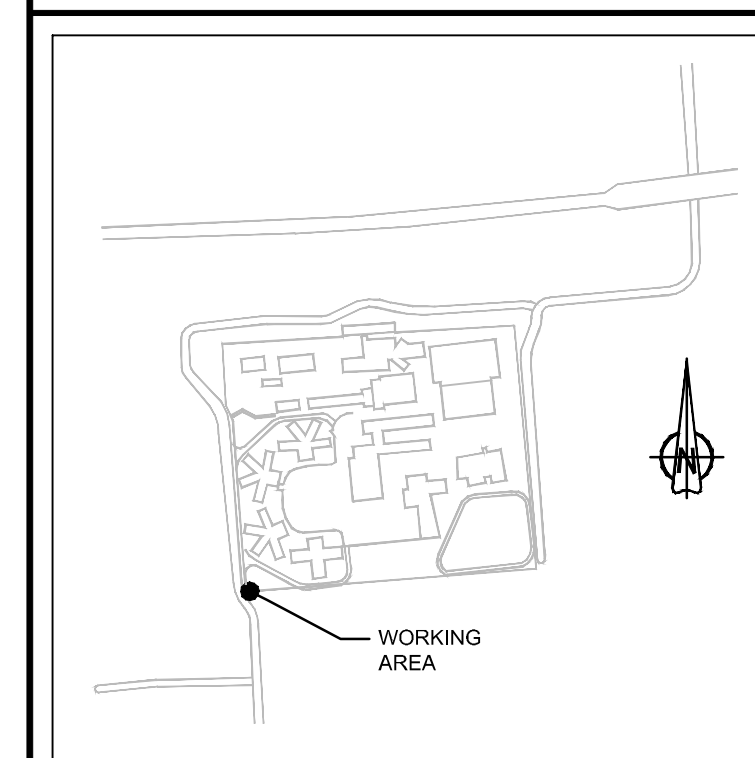
SECURITY ACCESS CONSOLE DETAIL
E002 SCALE: NONE

- ### GENERAL NOTES
- SENSTAR SHALL BE RETAINED BY THE CONTRACTOR TO UNDERTAKE AND COMPLETE WORK ON THE SECURITY FENCE, FENCE DETECTION AND GATE CONTACTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL WORKS WITH ALL OTHER TRADES. FURTHER REFERENCES TO 'CONTRACTOR' SHALL TAKE REFERENCE TO THE REQUIRED WORK TO BE COMPLETED BY SENSTAR (AS ABOVE).
 - THE CONDUITS INSIDE THE SECURITY TOWER SHALL BE OF EMT TYPE WHERE AS THE CONDUITS OUTSIDE SHALL BE OF AN ALUMINUM RIGID TYPE.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF A GATE CLOSING DETECTION SYSTEM IN EACH GATE PANEL AND A REMOTE CONTROL FROM THE MCCP AND THE EXISTING FENCE DISTURBANCE SYSTEM.
 - SCAN WALL BEFORE DOING ANY OPENING TO DETECT AND CONDUITS OR REBAR. SEAL OPENING WITH EXPANDABLE GROUTING.

- ### DRAWINGS NOTES
- SECURITY TOWER CONSOLE TO SUPPLY, INSTALL, TEST AND COMMISSION AS PER DIVISION 26. SUPPLY AND INSTALL CONTROL WIRING WITH ONE (1) METRE SPARE AT EACH END BETWEEN THE SECURITY TOWER CONSOLE AND THE GATE CONTROL PANELS AS SHOWN.
 - GATE CONTROL PANELS GCP-1 AND GCP-2 TO BE SUPPLIED BY THE GATE SUPPLIER AND INSTALLED, TESTED AND COMMISSIONED AS PER DIVISION 26. POWER CONNECTIONS INTO EACH GATE CONTROL PANELS ARE AS SHOWN.
 - EXISTING INNER / OUTER GATE DISCONNECT SWITCH TO BE REPLACED WITH A NEW 30A DISCONNECT SWITCH AS SHOWN. THE EXISTING DISCONNECT SWITCH IS ENCASED INTO THE CONCRETE WALL WHICH WILL REQUIRE SOME CHIPPING OR BREAKING OF CONCRETE; SEE DETAIL 3.
 - SUPPLY AND INSTALL A NEW DISTRIBUTION PANEL TOGETHER WITH A NEW DISCONNECT SWITCH AND A NEW TRANSFORMER AS SHOWN. ALL OF THE ABOVE EQUIPMENT SHALL BE TESTED AND COMMISSIONED AS PER DIVISION 26.
 - SUPPLY AND INSTALL CONDUITS INCLUDING WIRING FROM THE SECURITY TOWER CONSOLE TO THE GATE TERMINATION BOXES FOR POWER. WIRING CONNECTIONS INSIDE THE SECURITY TOWER CONSOLE AND THE GATE CONTROL PANELS SHALL BE CARRIED OUT AS PER DIVISION 26.
 - SUPPLY AND INSTALL EMPTY CONDUITS COMPLETE WITH PULL ROPES FROM THE SECURITY TOWER CONSOLE TO THE GATE TERMINATION BOXES FOR CONTROL WIRING BESIDE THE POWER CONDUITS.
 - THE ELECTRICAL POWER AND CONTROL CONDUITS AND WIRING TO THE OUTER GATE SHALL ENTER FROM THE TOP OF THE GATE COLUMN SUPPORT. WIRING TO BE EXTENDED THROUGH THE GATE COLUMN SUPPORT AND CONNECTED TO THE GATE OPERATOR POWER TERMINATION OR JUNCTION BOX.
 - GATE CLOSING DETECTION TO BE INSTALLED BY THE CONTRACTOR. THE GATE CLOSING DETECTION SYSTEM SHALL CONSIST OF A MAGNETIC DOOR SWITCH COMPLETE WITH WIRING AND A JUNCTION BOX. THIS SYSTEM WILL PROVIDE A SIGNAL FEEDBACK TO THE MAIN COMMUNICATION AND CONTROL POST (MCCP) SECURITY CONTROL SYSTEM.
 - INSTALL BESIDE NEW GATE CONTROL PANEL A NEMA 4X ENCLOSURE WITH ALUMINUM CONDUIT, ENTER INSIDE CB05 TOWER 300mm WITH A PVC CONDUIT TRANSITION TO AVOID FROST CONDUCTION INSIDE. WIRING INSIDE CONDUIT, ENCLOSURE AND TO MCCP WILL BE PROVIDED, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE BETWEEN ALL PARTIES AND ASSIST THEM DURING THE INSTALLATION.

LEGEND

EE	EXISTING TO REMOVE
DISCONNECT 30A	
DISTRIBUTION PANEL 600V / 3 PH	
TRANSFORMER	
JUNCTION BOX	
PROCESSOR	
# + BOND # - mm	CONNECTOR IDENTIFICATION
CONDUIT NOMINAL DIAMETER	
SIZE OF BONDING CONDUCTOR IN AWG	
NUMBER OF CONDUCTORS	
SIZE OF CONDUCTORS IN AWG	
NEW OR IN SCOPE OF WORK	
TO BE REMOVED	
NOT IN SCOPE OF WORK	
CABLE ID	
ID	DISTRIBUTION PANEL
GROUNDING	



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A	
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Collins Bay Institution
Secondary Sallyport Replacement

drawing title
titre du dessin
EXISTING AND PROPOSED ELECTRICAL WORK

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project date
date du projet
2014-09-05

project no.
no. du projet
R.69656.001

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dessiné no.
E002