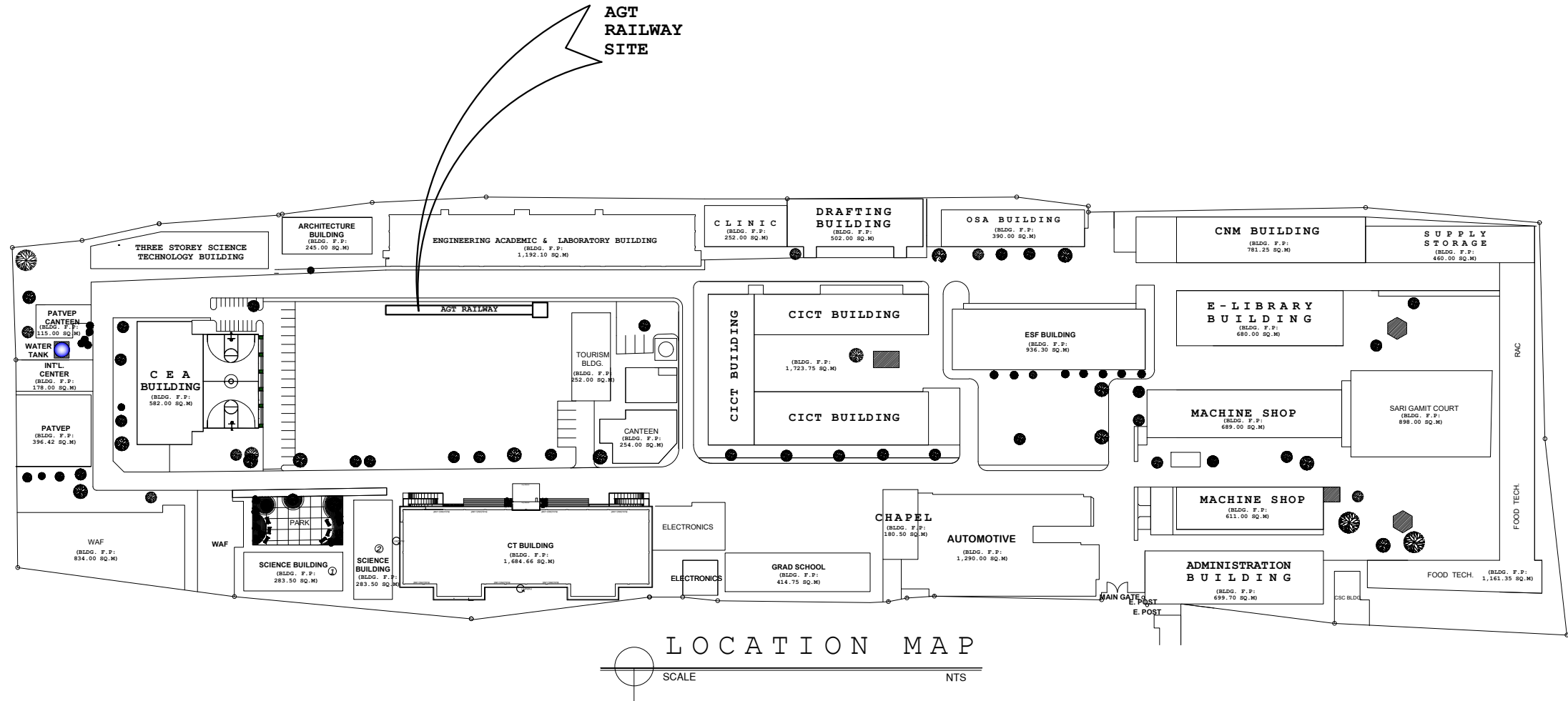


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NOTE : COURT ASKED DO NOT SCALE!



BATAAN PENINSULA STATE UNIVERSITY
TECHNICAL WORKING GROUP FOR INFRASTRUCTURE
CAPITOL COMPOUND, BRGY. TENEJERO, CITY OF BALANGA, BATAAN,
E-MAIL: bpsu.techinfo2016@gmail.com/ bpsuugp2017@gmail.com
TELEPHONE NO. : (047) 237-15-98



PERSPECTIVE
SCALE NTS

PROJECT TITLE
INSTALLATION OF AUTOMATIC
GUIDE-WAY TRANSIT (AGT) IN
BPSU MAIN CAMPUS

LOCATION:
BATAAN PENINSULA STATE UNIVERSITY (MAIN
CAMPUS), BALANGA CITY, BATAAN

STRUCTURAL ENGINEER
REG. NO. :
P.R. NO. :
PLACE :
TIN NO. :

MASTER PLUMBER/SANITARY ENGINEER
REG. NO. :
P.R. NO. :
PLACE :
TIN NO. :

PROFESSIONAL ELECTRICAL ENGINEER
REG. NO. :
P.R. NO. :
PLACE :
TIN NO. :

PROFESSIONAL MECHANICAL ENGINEER
REG. NO. :
P.R. NO. :
PLACE :
TIN NO. :

REVISION		
NO.	DESCRIPTION	DATE
1		
2		

PREPARED BY:

AR. ROXETTE S. UMEREZ
ARCHITECT 1, BPSU TWG
REG. NO. :
P.R. NO. :
PLACE :
TIN NO. :

REVIEWED BY:

JASON ANTHONY BANZON
CAMPUS DIRECTOR

NOTED BY:

ENGR. ALFREDO D. VALENTOS
DIRECTOR OF PPES

RECOMMENDED BY:

DR. EDMUNDO C. TUNGOL
VICE PRESIDENT ADMIN. & FINANCE

APPROVED BY:

DR. GREGORIO J. RODIS
UNIVERSITY PRESIDENT

REPUBLIC ACT 9266.
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SHEET CONTENT: SHEET NUMBER

A1

NOTE : DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SHOWN DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE DESIGNER MUST BE NOTIFIED IMMEDIATELY OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

NOTE : DISCREPANCY ON ALL DRAWINGS & SPECIFICATIONS (MECHANICAL, ELECTRICAL, SANITARY, ETC.) SHALL BE SUBJECT FOR VERIFICATION AND DO NOT SCALE

ACPP PANEL SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER			SERV/CE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
					AT	AF	P			
1	LIGHTING AND CONTROLS	1000	230	4.35	20	50	2	2-3.5sq.mm		
2	5 HP ACU FAN	5800	230	25.22	30	50	2	2-3.5sq.mm		
3	5 HP ACU COMPRESSOR	5800	230	25.22	30	50	2	2-3.5sq.mm		
4	SPARE	1000	230	4.35	20	50	2	2-3.5sq.mm		
	TOTAL	13600	230	59.13						
LOCATION: - ENCLOSURE: - MOUNTING: - AMPERES: - VOLTS: 230 V BUS RATING: - FED FROM: DCPD POWER PANEL 1		COMPUTATION: It = (59.14) 100% DF + (25.22) 25% DF = 65.43 A USE: FEEDER SIZE: 2-22 sq.mm THHN MAIN BREAKER: 70 AT, 100 AF, 10 KAIC, 230 V, 2P						MAIN KAIC: 10KAIC BRANCH KAIC: 10KAIC CONNECTED LOAD: 13600 VA DEMAND FACTOR: 100 % BRAND: -- FABRICATOR: --		

DCPD PANEL SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER			SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
					AT	AF	P			
1	10 KW INVERTER	10000	650	15.38	30	60	2	2-3.5sq.mm		
2	SPARE FOR INVERTER	5000	650	7.69	20	60	2	2-3.5sq.mm		
3	40HP INDUCTION MOTOR WITH VFD CONTROL – FRONT BOGIE	45000	650	69.23	75	100	2	2-22.0sq.mm		
4	40HP INDUCTION MOTOR WITH VFD CONTROL – REAR BOGIE	45000	650	69.23	75	100	2	2-22.0sq.mm		
	TOTAL	13600	650	161.54						
LOCATION: - ENCLOSURE: - MOUNTING: - AMPERES: - VOLTS: 650 VDC BUS RATING: - FED FROM: THREE PHASE RECTIFIER		COMPUTATION: It = (161.53) 100% DF + (69.23) 25% DF = 178.85 A USE: FEEDER SIZE: 2-80 sq.mm THHN IN 32mmØ RSC PER WIRE MAIN BREAKER: 200 AT, 200 AF, 15 KAIC, 650 V, 2P INDUSTRIAL DC TYPE (200 A, 700V)						MAIN KAIC: 15KAIC BRANCH KAIC: 10KAIC CONNECTED LOAD: 105000 VA DEMAND FACTOR: 100 % BRAND: -- FABRICATOR: --		

SERVICE LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER			SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
					AT	AF	P			
1	SPACE	-	460	-	-	-	-	-	-	-
2	300 KVA SPACE TRANSFORMER – RECTIFIER SETUP	287540	460	373.45	500	500	3	2X3-125sq.mm	2X1-30sq.mm	2x65
3	SPACE	-	460	-	-	-	-	-	-	-
4	10 KVA PP PANEL TRANSFORMER, T1	6732	460	14.63	30	40	2	2-8.0sq.mm	1-3.5sq.mm	20
	TOTAL	304272	460	388.06						
LOCATION: POWER ROOM ENCLOSURE: NEMA 1 MOUNTING: FLUSHED MOUNTED AMPERES: - VOLTS: 460 V BUS RATING: - FED FROM: SERVICE ENTRANCE		COMPUTATION: It = (388.06) 100% DF = 388.06 A USE: FEEDER SIZE: 2X3-125 sq.mm THHN + 2X30 sq.mm THW IN 2x65mmØ RMC MAIN BREAKER: 500 AT, 500 AF, 460 V, 3P INDUSTRIAL TYPE						MAIN KAIC: 304272 VA CONNECTED LOAD: 100 % BRAND: -- FABRICATOR: --		

F-DCPD LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER			SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
					AT	AF	P			
1	F-ACCP	1500	650	2.3	10	100	2	2x2.0sq.mm	-	20
2	60 HP THREE - PHASE INDUCTION MOTOR – BOGIE 1	67500	650	105	160	250	2	2x50.0sq.mm	-	32
3	60 HP THREE - PHASE INDUCTION MOTOR – BOGIE 2	67500	650	105	160	250	2	2x50.0sq.mm	-	32
4	10 HP THREE – PHASE INDUCTION MOTOR - ACU	6732	650	19	40	100	2	2-5.5sq.mm	-	20
LOCATION: FRONT COACH ENCLOSURE: NEMA 1 CABINET ENCLOSURE MOUNTING: - AMPERES: - VOLTS: 650 VDC BUS RATING: - FED FROM: COLLECTOR		COMPUTATION: It = (231.3) 100% DF = 231.3 A USE: FEEDER SIZE: 2-125 sq.mm THWN IN 50mmØ IMC MAIN BREAKER: 400 AT, 400 AF, 100 KAIC, 750 VDC						MAIN KAIC: 148770 VA CONNECTED LOAD: 100 % BRAND: -- FABRICATOR: --		

F-ACPP LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER			SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
					AT	AF	P			
1	MAIN CONTROLLER POWER + LIGHTING	1500	230	6.6	20	50	2	2x2.0sq.mm	-	20
2	SPARE	-	230	-	20	50	2	-	-	-
LOCATION: FRONT COACH ENCLOSURE: NEMA 1 CABINET ENCLOSURE MOUNTING: - AMPERES: - VOLTS: 230 VAC BUS RATING: - FED FROM: F-DCPD		COMPUTATION: It = (6.5) 100% DF = 6.5 A USE: FEEDER SIZE: 2-3.5 sq.mm THHN IN 20mmØ IMC MAIN BREAKER: 30 AT, 100 AF, 25 KAIC, 230 V, 2P INDUSTRIAL TYPE						MAIN KAIC: 1500 VA CONNECTED LOAD: 100 % BRAND: -- FABRICATOR: --		

R-ACPP LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER			SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
					AT	AF	P			
1	MAIN CONTROLLER POWER + LIGHTING	1500	230	6.6	20	50	2	2x2.0sq.mm	-	20
2	SPARE	-	230	-	20	50	2	-	-	-
LOCATION: FRONT COACH ENCLOSURE: NEMA 1 CABINET ENCLOSURE MOUNTING: - AMPERES: - VOLTS: 230 VAC BUS RATING: - FED FROM: R-DCPD		COMPUTATION: It = (6.5) 100% DF = 6.5 A USE: FEEDER SIZE: 2-3.5 sq.mm THHN IN 20mmØ IMC MAIN BREAKER: 30 AT, 100 AF, 25 KAIC, 230 V, 2P INDUSTRIAL TYPE						MAIN KAIC: 1500 VA CONNECTED LOAD: 100 % BRAND: -- FABRICATOR: --		

PP PANEL LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER			SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
					AT	AF	P			
1	LIGHTIG	1512	230	6.57	15	50	2	2-3.5 sq.mm	1-3.5 sq.mm	20
2	SPLIT TYPE AIR CONDITIONER 1, 2HP (ACCU1)	2760	230	12	30	50	2	2-5.5 sq.mm	1-3.5 sq.mm	20
3	4 – CONVENIENCE OUTLET + 1 EXHAUST FAN (FCU2)	1620	230	7.04	20	50	2	2-3.5 sq.mm	1-3.5 sq.mm	20
4	SPARE	-	230	-	30	50	2	-	-	-
5	SPARE	-	230	-	20	50	2	-	-	-
6	SPARE	-	230	-	20	50	2	-	-	-
	TOTAL	5892	230	19.4						
LOCATION: POWER ROOM ENCLOSURE: NEMA 1 MOUNTING: FLUSHED MOUNTED AMPERES: - VOLTS: 230 V BUS RATING: - FED FROM: AUXILIARY TRANSFORMER		COMPUTATION: It = (19.4) 100% DF = 19.4 USE: FEEDER SIZE: 2-8.0 sq.mm THWN + 1-9.5 sq.mm THWN IN 20mmØ RMC MAIN BREAKER: 40 AT, 100 AF, 230 V, 2P INDUSTRIAL TYPE						MAIN KAIC: 5892 VA CONNECTED LOAD: 100 % BRAND: -- FABRICATOR: --		

R-DCPD LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER			SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
					AT	AF	P			
1	R-ACCP	1500	650	2.3	10	100	2	2x2.0sq.mm	-	20
2	60 HP THREE - PHASE INDUCTION MOTOR – BOGIE 1	67500	650	105	160	250	2	2x50.0sq.mm	-	32
3	60 HP THREE - PHASE INDUCTION MOTOR – BOGIE 2	67500	650	105	160	250	2	2x50.0sq.mm	-	32
4	10 HP THREE – PHASE INDUCTION MOTOR - ACU	6732	650	19	40	100	2	2-5.5sq.mm	-	20
LOCATION: FRONT COACH ENCLOSURE: NEMA 1 CABINET ENCLOSURE MOUNTING: - AMPERES: - VOLTS: 650 VDC BUS RATING: - FED FROM: COLLECTOR		COMPUTATION: It = (231.3) 100% DF = 231.3 A USE: FEEDER SIZE: 2-125 sq.mm THWN IN 50mmØ IMC MAIN BREAKER: 400 AT, 400 AF, 100 KAIC, 750 VDC						MAIN KAIC: 148770 VA CONNECTED LOAD: 100 % BRAND: -- FABRICATOR: --		

PROJECT TITLE:

INSTALLATION OF AUTOMATIC GUIDE-WAY TRANSIT (AGT) IN BPSU MAIN CAMPUS

LOCATION:

BATAAN PENINSULA STATE UNIVERSITY (MAIN CAMPUS), BALANGA CITY, BATAAN

STRUCTURAL ENGINEER

REG. NO. :

PTR. NO. :

PLACE :

TIN NO. :

MASTER PLUMBER/SANITARY ENGINEER

REG. NO. :

PTR. NO. :

PLACE :

TIN NO. :

PROFESSIONAL ELECTRICAL ENGINEER

REG. NO. :

PTR. NO. :

PLACE :

TIN NO. :

PROFESSIONAL MECHANICAL ENGINEER

REG. NO. :

PTR. NO. :

PLACE :

TIN NO. :

REVISION

NO.	DESCRIPTION	DATE
1		
2		

PREPARED BY:

AR. ROXETTE S. UMEREZ

ARCHITECT 1, BPSU TNG

REG. NO. :

PTR. NO. :

PLACE :

TIN NO. :

REVIEWED BY:

JASON ANTHONY BANZON

CAMPUS DIRECTOR

NOTED BY:

ENGR. ALFREDO D. VALENTOS

DIRECTOR OF PPES

RECOMMENDED BY:

DR. EDMUNDO C. TUNGOL

VICE PRESIDENT ADMIN. & FINANCE

APPROVED BY:

DR. GREGORIO J. RODIS

UNIVERSITY PRESIDENT

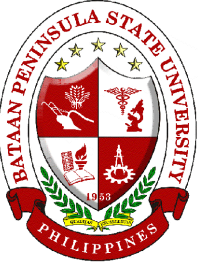
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SHEET CONTENT:

SHEET NUMBER:

E1



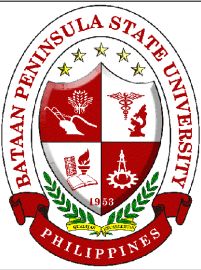
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TECHNICAL WORKING GROUP FOR INFRASTRUCTURE

CAPITOL COMPOUND, BRGY. TENEJERO, CITY OF BALANGA, BATAAN,
E-MAIL: bpsu.begining2016@gmail.com / bpsupes2017@gmail.com
TELEPHONE NO. : (047) 237-15-98

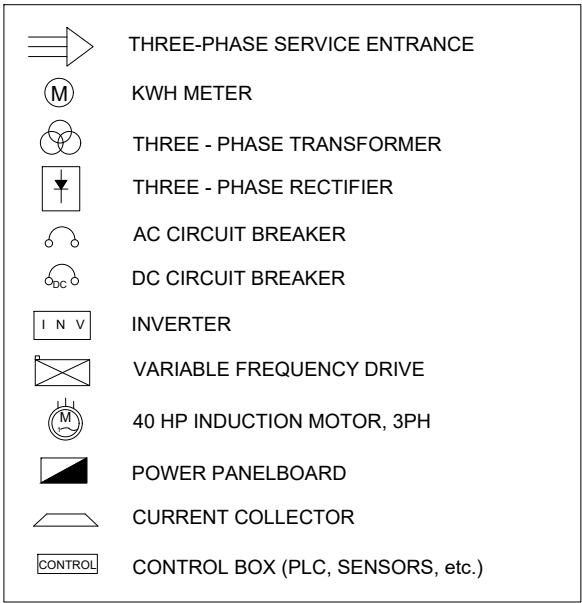


LOAD SCHEDULE

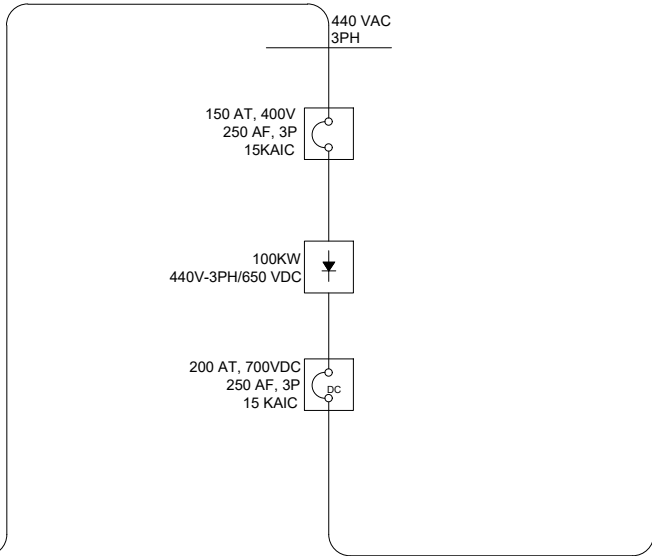
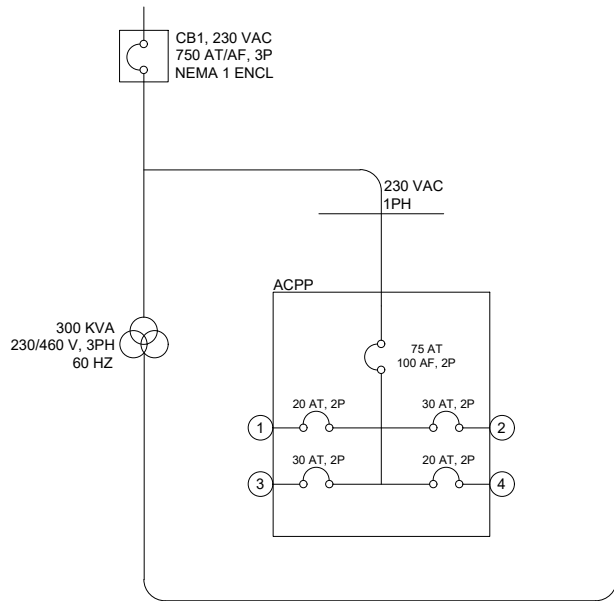
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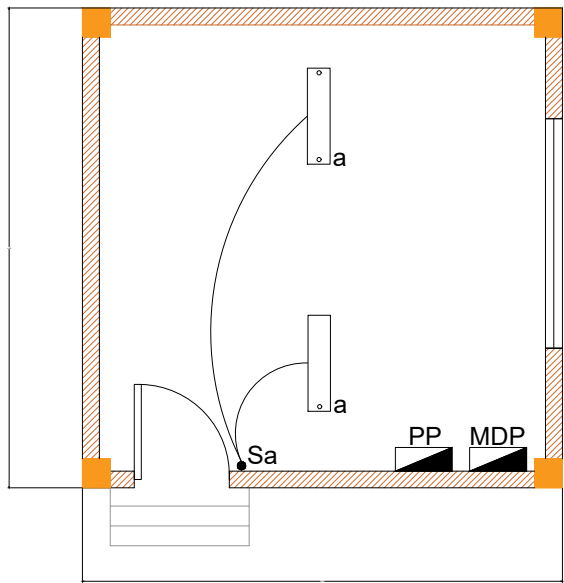
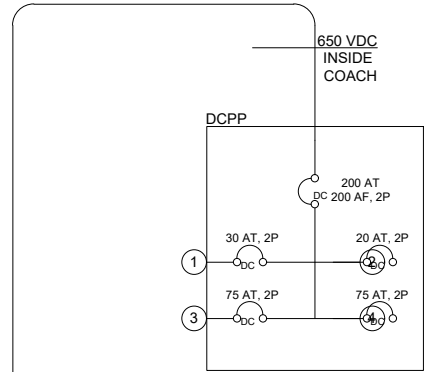
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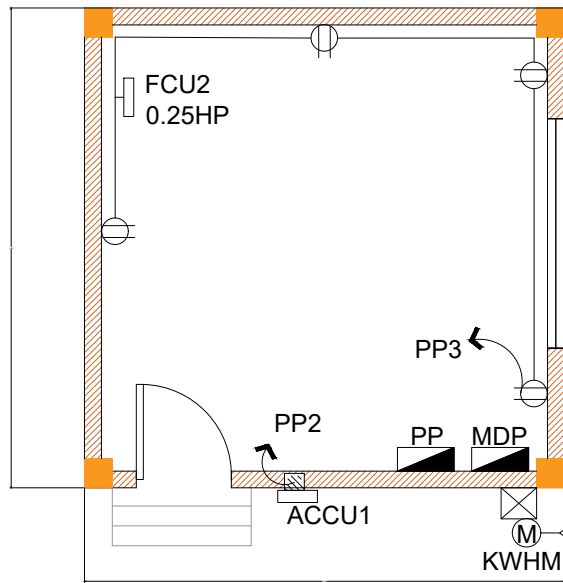
LEGEND
SCALE: NTS



RISER DIAGRAM
SCALE: NTS



ROOM LIGHTING LAYOUT
SCALE: 1:40



ROOM POWER LAYOUT
SCALE: 1:40

PROJECT TITLE:
INSTALLATION OF AUTOMATIC
GUIDE-WAY TRANSIT (AGT) IN
BPSU MAIN CAMPUS

LOCATION:
BATAAN PENINSULA STATE UNIVERSITY (MAIN
CAMPUS), BALANGA CITY, BATAAN

STRUCTURAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

MASTER PLUMBER/SANITARY ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

PROFESSIONAL ELECTRICAL ENGINEER
REG. NO. :
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PLACE :
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PROFESSIONAL MECHANICAL ENGINEER
REG. NO. :
PTR. NO. :
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TIN NO. :

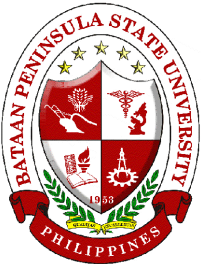
REVISION
NO. DESCRIPTION DATE
1
2

PREPARED BY:
AR. ROXETTE S. UMEREZ
ARCHITECT 1, BPSU TNG
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :
REVIEWED BY:
JASON ANTHONY BANZON
CAMPUS DIRECTOR
NOTED BY:
ENGR. ALFREDO D. VALENTOS
DIRECTOR OF PPES
RECOMMENDED BY:
DR. EDMUNDO C. TUNGOL
VICE PRESIDENT ADMIN. & FINANCE
APPROVED BY:
DR. GREGORIO J. RODIS
UNIVERSITY PRESIDENT

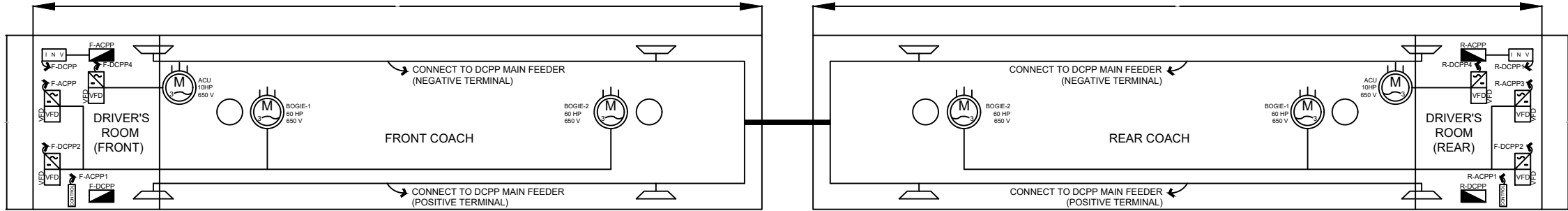
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SHEET CONTENT: SHEET NUMBER:
E2

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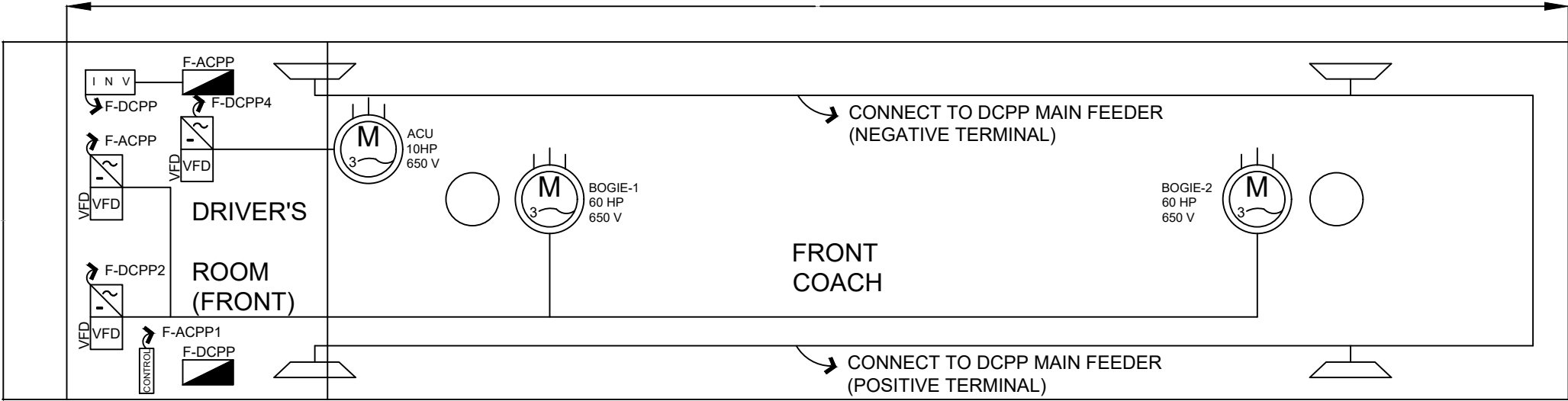


BATAAN PENINSULA STATE UNIVERSITY
TECHNICAL WORKING GROUP FOR INFRASTRUCTURE
CAPITOL COMPOUND, BRGY. TENEJERO, CITY OF BALANGA, BATAAN,
E-MAIL: bpsu.begining2016@gmail.com/ bpsuengs2017@gmail.com
TELEPHONE NO. : (047) 237-15-98



NOTE: REAR COACH IS A MIRROR IMAGE OF FRONT COACH

ROLLINGSTOCK LAYOUT
SCALE: NTS



COACH POWER LAYOUT
SCALE: NTS

PROJECT TITLE:
INSTALLATION OF AUTOMATIC
GUIDE-WAY TRANSIT (AGT) IN
BPSU MAIN CAMPUS

LOCATION:
BATAAN PENINSULA STATE UNIVERSITY (MAIN
CAMPUS), BALANGA CITY, BATAAN

STRUCTURAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

MASTER PLUMBER/SANITARY ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

PROFESSIONAL ELECTRICAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

PROFESSIONAL MECHANICAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

REVISION		
NO.	DESCRIPTION	DATE
1		
2		

PREPARED BY:

AR. ROXETTE S. UMEREZ
ARCHITECT 1, BPSU TNG
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :
REVIEWED BY:

JASON ANTHONY BANZON
CAMPUS DIRECTOR
NOTED BY:

ENGR. ALFREDO D. VALENTOS
DIRECTOR OF PPES
RECOMMENDED BY:

DR. EDMUNDO C. TUNGOL
VICE PRESIDENT ADMIN. & FINANCE
APPROVED BY:

DR. GREGORIO J. RODIS
UNIVERSITY PRESIDENT

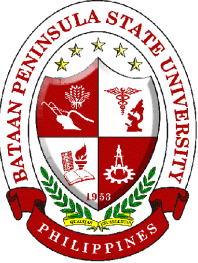
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SHEET CONTENT: SHEET NUMBER:

E3

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NOTE : DISCREPANCY ON ALL DRAWINGS & OBSERVATIONS & REVISIONS (MECHANICAL, ELECTRICAL, SANITARY, ETC.) SHALL BE SUBJECT FOR VERIFICATION DO NOT SCALE



BATAAN PENINSULA STATE UNIVERSITY
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CAPITOL COMPOUND, BRGY. TENEJERO, CITY OF BALANGA, BATAAN,
E-MAIL: bpsu.begining2016@gmail.com/ bpsuages2017@gmail.com
TELEPHONE NO. : (047) 237-15-98

ACPP PANEL SCHEDULE

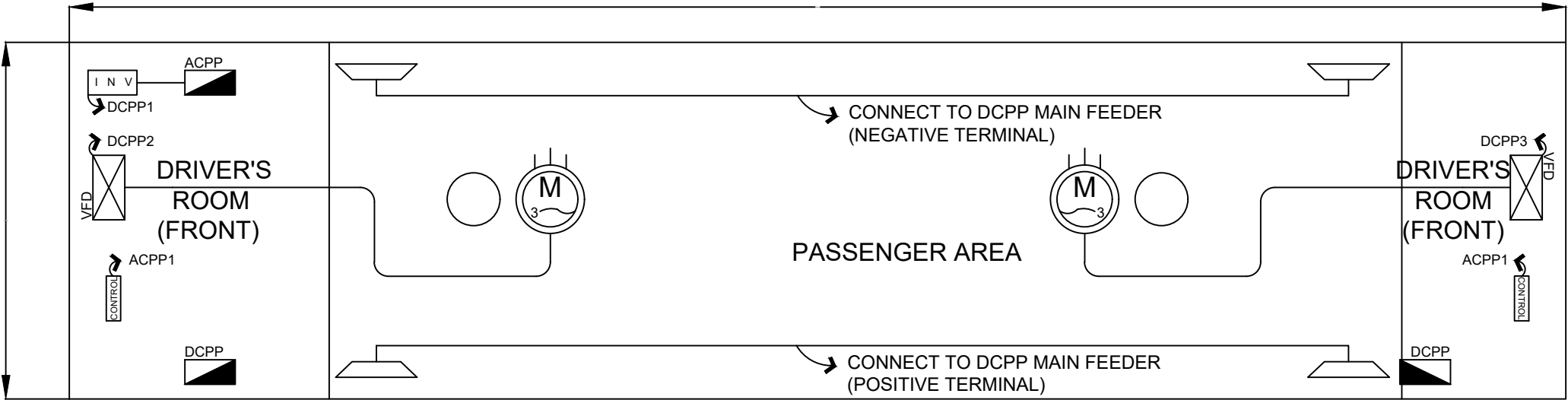
CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER			SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
					AT	AF	P			
1	LIGHTING AND CONTROLS	1000	230	4.35	20	50	2	2-3.5sq.mm		
2	5 HP ACU FAN	5800	230	25.22	30	50	2	2-3.5sq.mm		
3	5 HP ACU COMPRESSOR	5800	230	25.22	30	50	2	2-3.5sq.mm		
4	SPARE	1000	230	4.35	20	50	2	2-3.5sq.mm		
TOTAL		13600	230	59.13						
LOCATION: - ENCLOSURE: - MOUNTING: - AMPERES: - VOLTS: 230 V BUS RATING: - FED FROM: DCPP POWER PANEL 1										
COMPUTATION: It = (59.14) 100% DF + (25.22) 25% DF = 55.43 A USE: FEEDER SIZE: 2-22 sq.mm THHN MAIN BREAKER: 70 AT, 100 AF, 10 KAIC, 230 V, 2P										
MAIN KAIC: 10KAIC BRANCH KAIC: 10KAIC CONNECTED LOAD: 13600 VA DEMAND FACTOR: 100 % BRAND: - FABRICATOR: -										

DCPP PANEL SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER			SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
					AT	AF	P			
1	10 KW INVETER	10000	650	15.38	30	60	2	2-3.5sq.mm		
2	SPARE FOR INVERTER	5000	650	7.69	20	60	2	2-3.5sq.mm		
3	40HP INDUCTION MOTOR WITH VFD CONTROL – FRONT BOGIE	45000	650	69.23	75	100	2	2-22.0sq.mm		
4	40HP INDUCTION MOTOR WITH VFD CONTROL – REAR BOGIE	45000	650	69.23	75	100	2	2-22.0sq.mm		
TOTAL		13600	650	161.54						
LOCATION: - ENCLOSURE: - MOUNTING: - AMPERES: - VOLTS: 650 VDC BUS RATING: - FED FROM: THREE PHASE RECTIFIER										
COMPUTATION: It = (161.53) 100% DF + (69.23) 25% DF = 178.85 A USE: FEEDER SIZE: 2-80 sq.mm THHN IN 32mmØ RSC PER WIRE MAIN BREAKER: 200 AT, 200 AF, 15 KAIC, 650 V, 2P INDUSTRIAL DC TYPE (200 A, 700V)										
MAIN KAIC: 15KAIC BRANCH KAIC: 30KAIC CONNECTED LOAD: 105000 VA DEMAND FACTOR: 100 % BRAND: - FABRICATOR: -										

2 LOAD SCHEDULE

SCALE: NTS



1 COACH POWER LAYOUT

SCALE: NTS

PROJECT TITLE:
INSTALLATION OF AUTOMATIC
GUIDE-WAY TRANSIT (AGT) IN
BPSU MAIN CAMPUS

LOCATION:
BATAAN PENINSULA STATE UNIVERSITY (MAIN
CAMPUS), BALANGA CITY, BATAAN

STRUCTURAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

MASTER PLUMBER/SANITARY ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

PROFESSIONAL ELECTRICAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

PROFESSIONAL MECHANICAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

REVISION		
NO.	DESCRIPTION	DATE
1		
2		

PREPARED BY:

AR. ROXETTE S. UMEREZ
ARCHITECT 1, BPSU TING

REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

REVIEWED BY:

JASON ANTHONY BANZON
CAMPUS DIRECTOR

ENGR. ALFREDO D. VALENTOS
DIRECTOR OF PPES

DR. EDMUNDO C. TUNGOL
VICE PRESIDENT ADMIN. & FINANCE

DR. GREGORIO J. RODIS
UNIVERSITY PRESIDENT

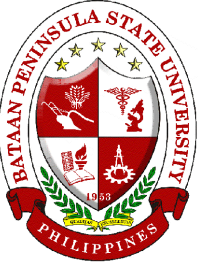
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BATAAN PENINSULA STATE UNIVERSITY
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CAPITOL COMPOUND, BRGY. TENEJERO, CITY OF BALANGA, BATAAN,
E-MAIL: bpsu.begining2016@gmail.com/ bpsuupges2017@gmail.com
TELEPHONE NO. : (047) 237-15-98

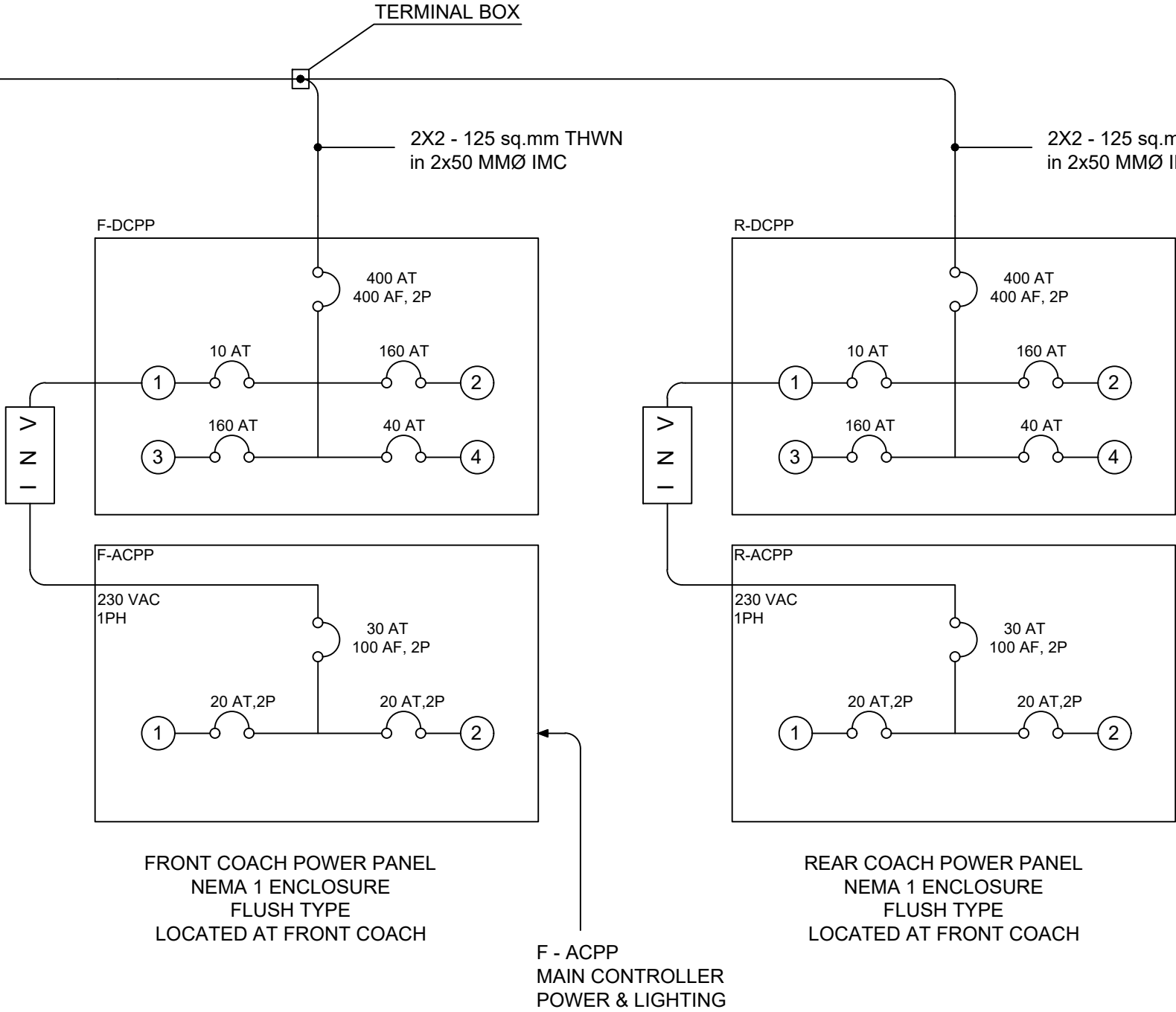
POWER RAILS
COLLECTOR ENTRANCE
650V, DC, 2W

2X2 - 125 sq.mm THWN
in 2x50 MMØ IMC

TERMINAL BOX

2X2 - 125 sq.mm THWN
in 2x50 MMØ IMC

2X2 - 125 sq.mm THWN
in 2x50 MMØ IMC



1
E-05 ROLLINGSTOCK RISER DIAGRAM
SCALE: NTS

PROJECT TITLE:		
INSTALLATION OF AUTOMATIC GUIDE-WAY TRANSIT (AGT) IN BPSU MAIN CAMPUS		
LOCATION:		
BATAAN PENINSULA STATE UNIVERSITY (MAIN CAMPUS), BALANGA CITY, BATAAN		
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TIN NO. :		
REVISION		
NO.	DESCRIPTION	DATE
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2		
PREPARED BY:		
AR. ROXETTE S. UMEREZ		
ARCHITECT 1, BPSU TNG		
REG. NO. :		
PTR. NO. :		
PLACE :		
TIN NO. :		
REVIEWED BY:		
JASON ANTHONY BANZON		
CAMPUS DIRECTOR		
NOTED BY:		
ENGR. ALFREDO D. VALENTOS		
DIRECTOR OF PPES		
RECOMMENDED BY:		
DR. EDMUNDO C. TUNGOL		
VICE PRESIDENT ADMIN. & FINANCE		
APPROVED BY:		
DR. GREGORIO J. RODIS		
UNIVERSITY PRESIDENT		
REPUBLIC ACT 9266.		
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SHEET CONTENT:		SHEET NUMBER:
		E5

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NOTE : DISCREPANCY ON ALL DRAWINGS & SPECIFICATIONS (MECHANICAL, ELECTRICAL, SANITARY, ETC.) SHALL BE SUBJECT FOR VERIFICATION AND DO NOT SCALE

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, TO THE RULES AND REGULATIONS OF LOCAL AND NATIONAL AUTHORITIES CONCERNED AND THE REQUIREMENT OF LOCAL UTILITY COMPANIES
2. WIRING METHOD SHALL BE AS FOLLOWS:
 - a. MAIN SERVICE ENTRANCE ----- RIGID STEEL CONDUIT (PVC)
 - b. RACEWAYS FOR POWER ----- POLYVNYL CHLORIDE (PVC)
 - c. RACEWAYS FOR LIGHTING ----- POLYVNYL CHLORIDE (PVC)
 - d. RACEWAYS FOR AUXILIARY SYSTEM ----- POLYVNYL CHLORIDE (PVC)
3. MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5 mm² THHN AND 15MM (½") NOMINAL DIA. RESPECTIVELY. UNLESS OTHERWISE SPECIFIED ON PLANS.
4. NO BRANCH CIRCUIT WIRING IN LIGHTING AND POWER SHALL HAVE A LOAD MORE THAN 8-% OF ITS RATINGS
5. LIGHT CONTROL SWITCHES SHALL BE RATED 16 AMPERES 230 Vac.
6. UNLESS OTHERWISE SPECIFIED PULLBOXES OR JUNCTION BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY, ALTHOUGH SUCH BOXES ARE NOT INDICATED ON PLANS.
7. FOR EACH SPARE CIRCUIT PANELBOARD, PROVIDE AN EMPTY CONDUIT 20 MM (¾") DIA. TERMINATING TO A COVERED SQUARED BOX.
8. ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE BRAND NEW AND OF APPROVED TYPE FOR BOTH LOCATION AND PURPOSES
9. ALL METAL FRAMES SHALL BE PROPERLY AND ADEQUATELY GROUNDED. GROUND WIRE SHALL BE PROVIDED ON ALL EQUIPMENT FEEDER.
10. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
 - a. LIGHT SWITCHES ----- 1.40m ABOVE FLOOR FINISH (A.F.F)
 - b. RECEPTACLES ----- 0.30m A.F.F.
 - c. TELEPHONE OUTLETS ----- 0.30m A.F.F.
 - d. PANELBOARDS ----- 1.80m A.F.F.ALL MOUNT HEIGHTS ARE SUBJECT FOR ARCHITECTURAL APPROVAL PRIOR TO INSTALLATION INCLUDING THE LOCATIONS OF ALL ELECTRICAL FIXTURES.)
11. THERE SHALL BE ONLY ONE POWER SUPPLY TO THE PROPOSED POWER ROOM UNIT SERVICE LINE SHALL BE 460 Volts, THREE - PHASE, 60 HZ.
12. ALL 30 - AMPERES CIRCUIT HOMERUN TO PANELBOARDS MORE THAN 30 METERS IN LENGTH SHALL BE 5.5mm² THHN (#10 AWG), UNLESS OTHERWISE SPECIFIED ON PLANS.
13. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKER, EACH PANEL WILL BE PROVIDED WITH A TYPE WRITTEN CIRCUIT DIRECTORY.
14. THE DRAWING AND SPECIFICATIONS ARE INTENDED TO PRESENT A GENERAL LAYOUT AND BROAD OUTLINE AND DESCRIPTION OF THE PROJECT AND NOT NECESSARY INDICATED, DESCRIBED ACTUAL LOCATION LEVELS AND DISTANCES OF EQUIPMENT, THE CONTRACTOR IS HEREBY REQUIRED TO MAKE ADJUSTMENT AT THE JOBSITE AS LOCATIONS, LEVELS AND DISTANCES ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
15. NO REVISION IN THE DESIGN SHALL BE DONE WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF THE DESIGNED AND THE OWNER, ANY SUCH REVISION DONE WITHOUT THE APPROVAL SHALL CAUSE RESPONSIBILITY OF THE DESIGNER TO CEASED AS A WHOLE.
16. ALL WEATHER - EXPOSED INSTALLATION USE WEATHERPROOF TYPE MATERIALS, ESPECIALLY WEATHERPROOF CONVENIENCE OUTLET, CAST-BOXES, AND JUNCTION BOXES.
17. PROVIDE SUFFICIENT FLEXIBLE METALLIC CONDUIT FROM JUNCTION BOX TO LIGHTING BOX TO LIGHTING AND AUXILIARY FEATURES. MICA TUBING CAN BE USED EXCEPT LIMIT IT TO 150mm LENGTH ONLY.

18. PROVIDE APPROVED TYPE HANGERS AND SUPPORTS WITH ANTI-CORROSION PAINT FOR CONDUITS.
19. ALL WIRES SHALL BE CODED: L1 - BLACK, L2 - RED, L3 - YELLOW, GROUNDED - GREEN, CONTROL WIRE - BLUE OR AS REQUIRED BY THE BUILDING ADMINISTRATION.
20. PROVIDE WIRE NUT AT ALL SPLICING EXCEPT USE SOLDERLESS CONNECTOR FOR 8.0 sq.mm WIRE SIZE OR LARGER.
21. CONDUCT INSULATION RESISTANCE TEST PRIOR FOR TERMINATION OF DEVICES AS WELL AS OTHER NECESSARY ELECTRICAL TESTING STANDARDS.
22. CONTRACTOR SHALL SUBMIT TWO (2) SETS OF AS-BUILT PLANS TO THE OWNER AND IT MUST BE SIGNED AND SEALED BY THEIR RESPECTIVE DULY LICENSED ELECTRICAL ENGINEER REQUIRED BY THE ELECTRICAL ENGINEERING LAW.
23. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER.

2 LEGEND

EP-06 SCALE: NTS

	36W TUBULAR FLUORESCENT LAMP (FL)
	23W COMPACT FLUORESCENT OUTDOOR LAMP (OL)
	SWITCH ONE GANG, TOSHIBA OR PANASONIC BRAND
	SWITCH TWO GANG, TOSHIBA OR PANASONIC BRAND
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE TOSHIBA OR PANASONIC BRAND
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE WEATHER PROOF, TOSHIBA OR PANASONIC BRAND
	KWHR SERVICE METER
	AIR-COOLED CONDENSING UNIT
	FAN COIL UNIT
	LIGHTING CIRCUIT RUN
	C.O CIRCUIT RUN
	AUXILIARY CIRCUIT RUN
	CIRCUIT HOMERUN TO PANEL
	CIRCUIT BREAKER, BOLT - ON TYPE
	CIRCUIT BREAKER, BOLT - ON TYPE NEMA 3R ENCLOSURE



GENERAL NOTES

SCALE: NTS

VICINITY MAP

SCALE: NTS

PROJECT TITLE:		
INSTALLATION OF AUTOMATIC GUIDE-WAY TRANSIT (AGT) IN BPSU MAIN CAMPUS		
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PROFESSIONAL MECHANICAL ENGINEER		
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REVISION		
NO.	DESCRIPTION	DATE
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PREPARED BY:		
AR. ROXETTE S. UMEREZ		
ARCHITECT 1, BPSU TNG		
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REVIEWED BY:		
JASON ANTHONY BANZON		
CAMPUS DIRECTOR		
NOTED BY:		
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RECOMMENDED BY:		
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VICE PRESIDENT ADMIN. & FINANCE		
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UNIVERSITY PRESIDENT		
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		E6

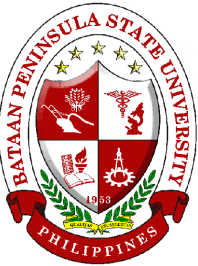


BATAAN PENINSULA STATE UNIVERSITY
TECHNICAL WORKING GROUP FOR INFRASTRUCTURE

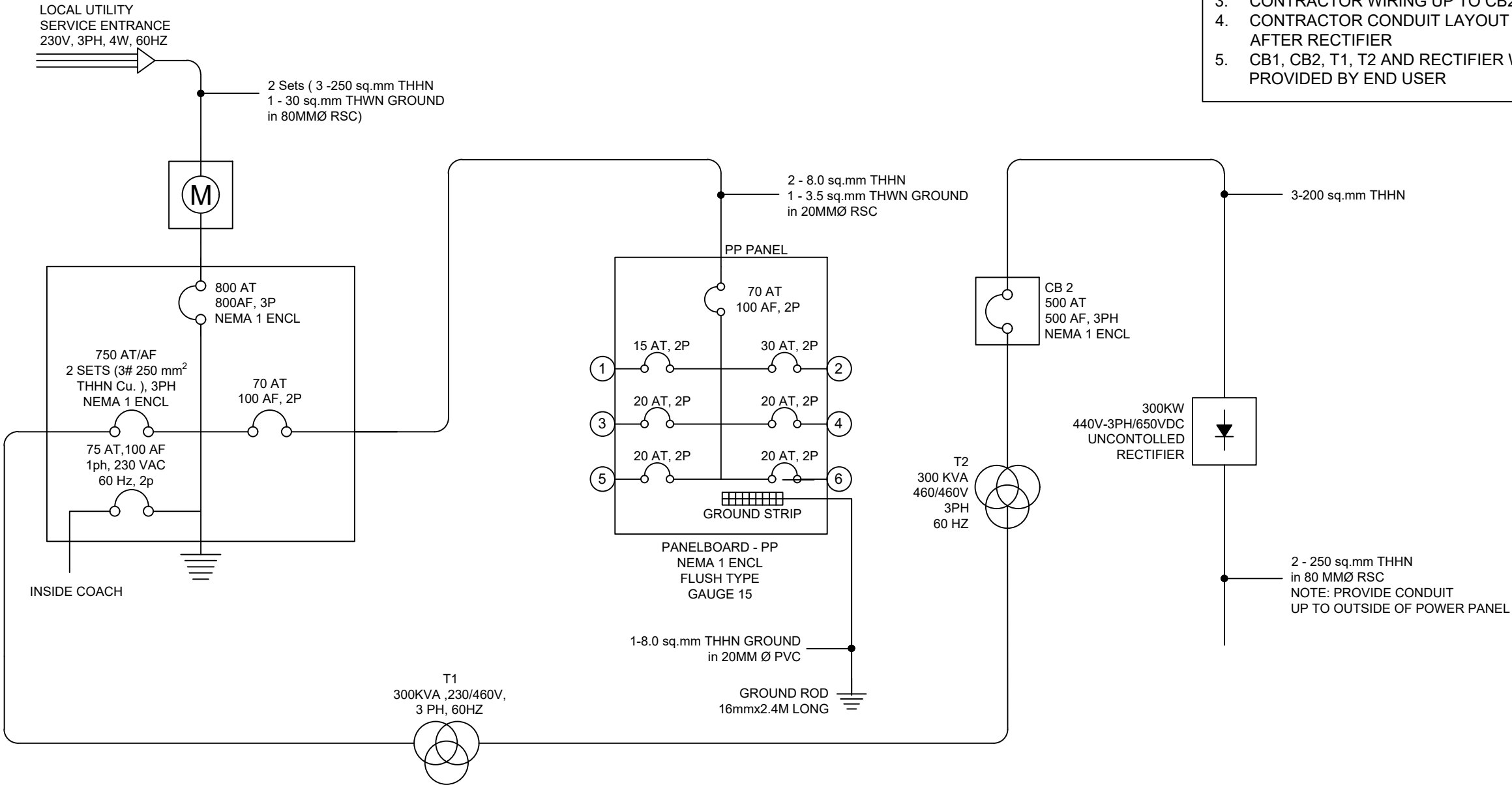
CAPITOL COMPOUND, BRGY. TENEJERO, CITY OF BALANGA, BATAAN,
E-MAIL: bpsu.begining2016@gmail.com/ bpsupes2017@gmail.com
TELEPHONE NO. : (047) 237-15-98

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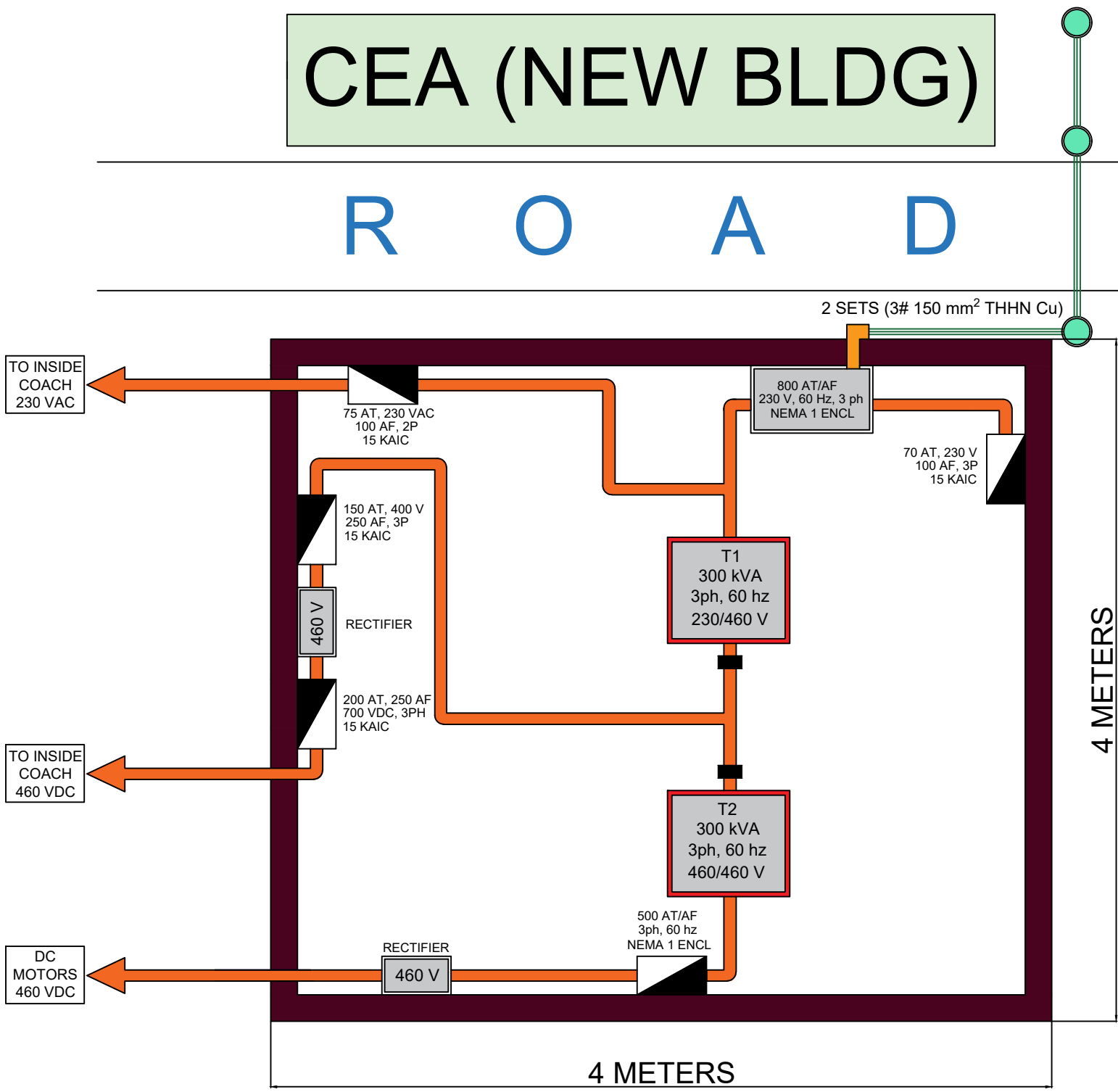
- NOTES:
1. THE NUMBER OF GROUND BUS TERMINAL SHALL BE THE NUMBER OF BRANCH CIRCUIT PLUS THE MAIN FEEDER.
 2. THE PANELBOARD SHALL BE POWDER COATED
 3. CONTRACTOR WIRING UP TO CB2 ONLY
 4. CONTRACTOR CONDUIT LAYOUT UP TO AFTER RECTIFIER
 5. CB1, CB2, T1, T2 AND RECTIFIER WILL BE PROVIDED BY END USER

PROJECT TITLE:		
INSTALLATION OF AUTOMATIC GUIDE-WAY TRANSIT (AGT) IN BPSU MAIN CAMPUS		
LOCATION:		
BATAAN PENINSULA STATE UNIVERSITY (MAIN CAMPUS), BALANGA CITY, BATAAN		
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REVISION		
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PREPARED BY:		
AR. ROXETTE S. UMEREZ		
ARCHITECT 1, BPSU TNG		
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1 ELECTRICAL HOUSE LAYOUT
EP-08 SCALE: NTS

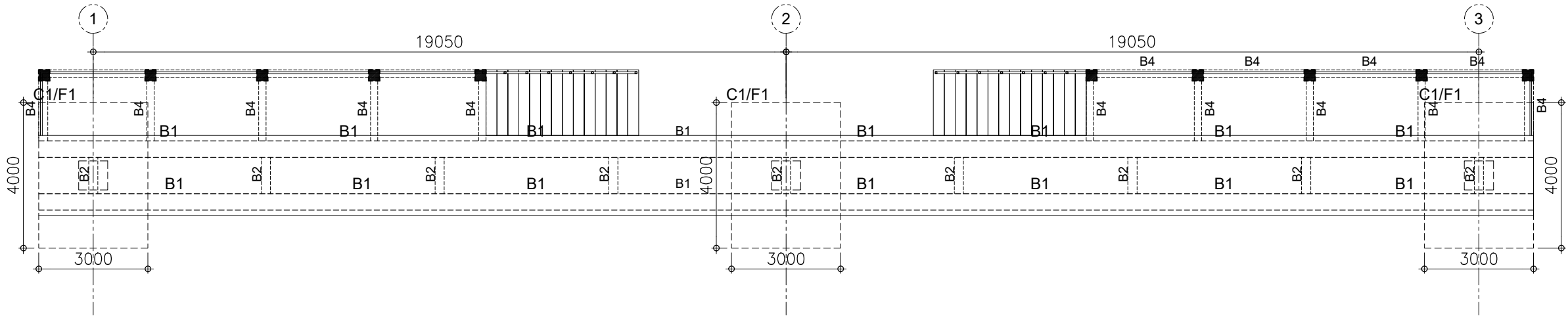
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SHEET CONTENT:		SHEET NUMBER:
		E8

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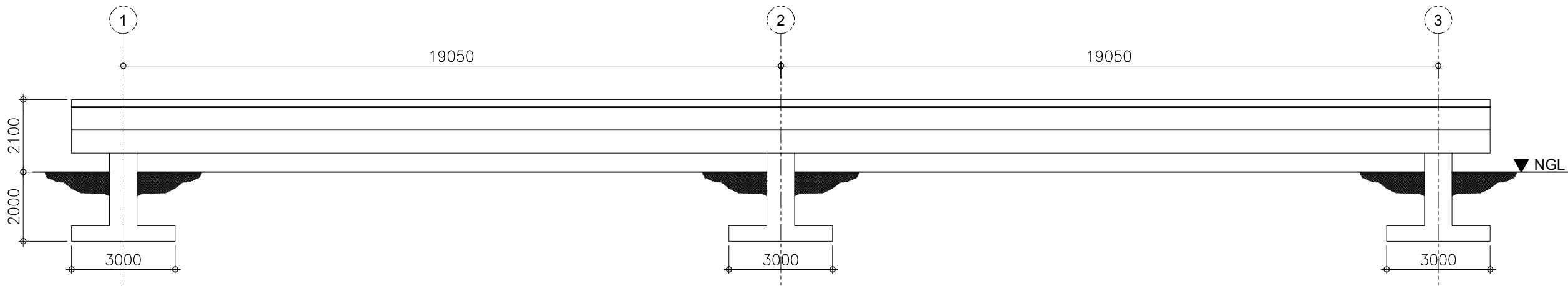
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TELEPHONE NO. : (0477) 237-15-98



AUTOMATED GUIDEWAY TRANSIT SYSTEM
FOUNDATION PLAN
SCALE 1:75mts



AUTOMATED GUIDEWAY TRANSIT SYSTEM
FRAME ELEVATION
SCALE 1:75mts

PROJECT TITLE
INSTALLATION OF AUTOMATIC
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PREPARED BY:

AR. ROXETTE S. UMEREZ
ARCHITECT 1, BPSU TWG
REG. NO. :
PTR. NO. :
PLACE :
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REVIEWED BY:

JASON ANTHONY BANZON
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NOTED BY:

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RECOMMENDED BY:

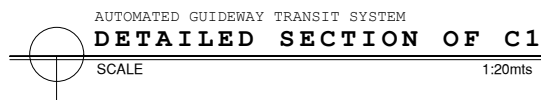
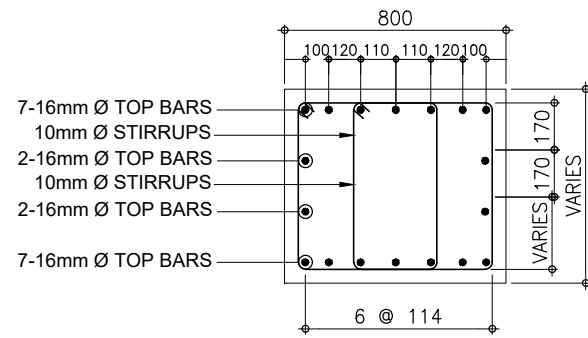
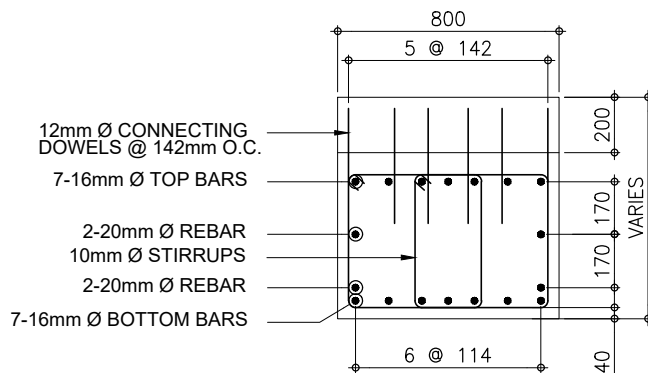
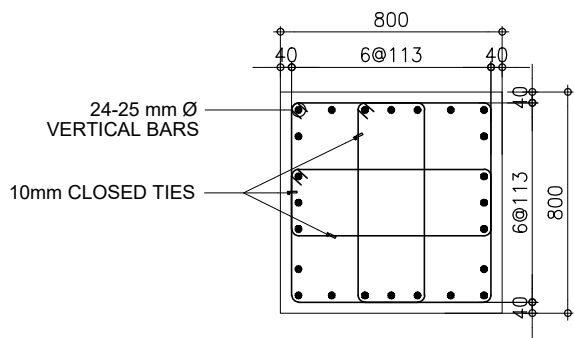
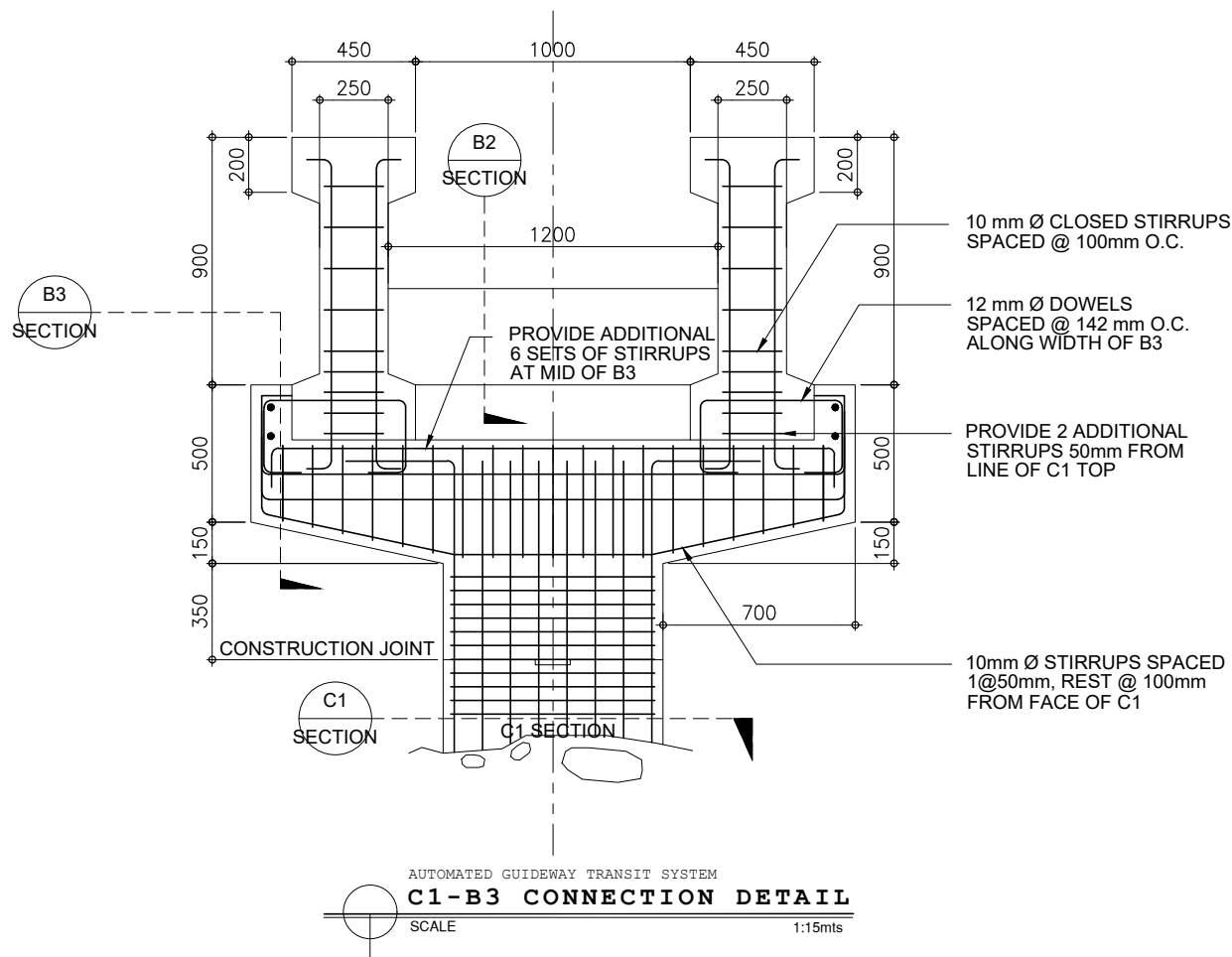
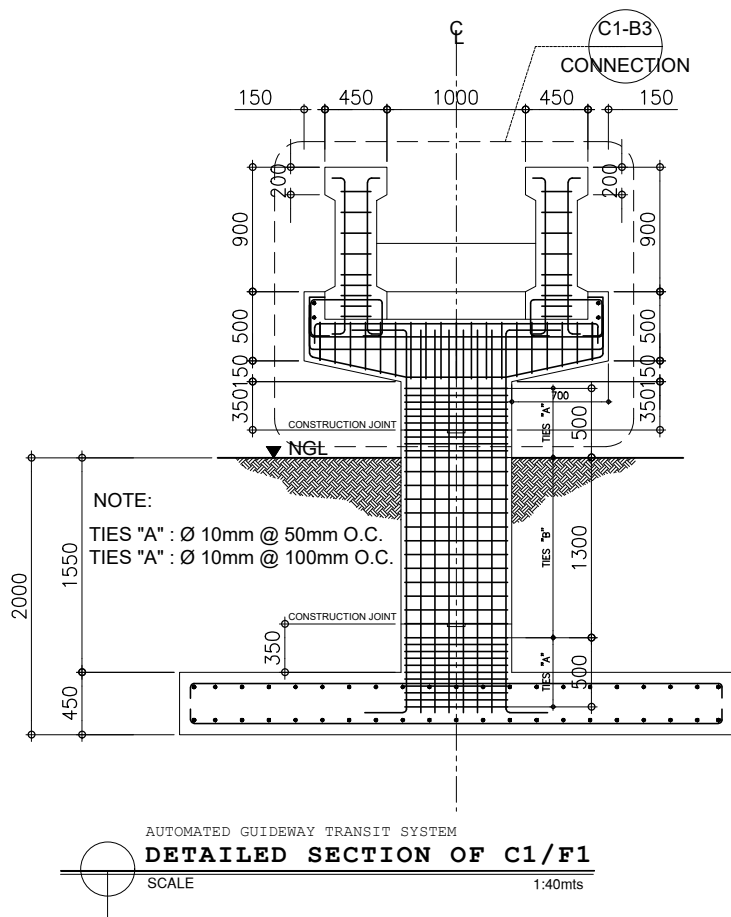
DR. EDMUNDO C. TUNGOL
VICE PRESIDENT ADMIN. & FINANCE
APPROVED BY:

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UNIVERSITY PRESIDENT

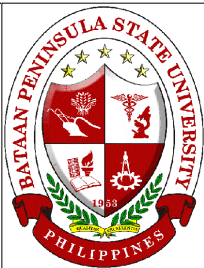
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SHEET CONTENT: SHEET NUMBER:

S1



PROJECT TITLE		
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2		
PREPARED BY:		
AR. ROXETTE S. UMEREZ		
ARCHITECT 1, BPSU TWG		
REG. NO. :		
PTR. NO. :		
PLACE :		
TIN NO. :		
REVIEWED BY:		
JASON ANTHONY BANZON		
CAMPUS DIRECTOR		
NOTED BY:		
ENGR. ALFREDO D. VALENTOS		
DIRECTOR OF PPES		
RECOMMENDED BY:		
DR. EDMUNDO C. TUNGOL		
VICE PRESIDENT ADMIN. & FINANCE		
APPROVED BY:		
DR. GREGORIO J. RODIS		
UNIVERSITY PRESIDENT		
REPUBLIC ACT 9266.		
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SHEET CONTENT:		SHEET NUMBER
		S2



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TECHNICAL WORKING GROUP FOR INFRASTRUCTURE
CAPITOL COMPOUND, BRGY. TENEJERO, CITY OF BALANGA, BATAAN,
E-MAIL: bpsu.tenjero2016@gmail.com/ bpsuagp2017@gmail.com
TELEPHONE NO. : (047) 237-15-98

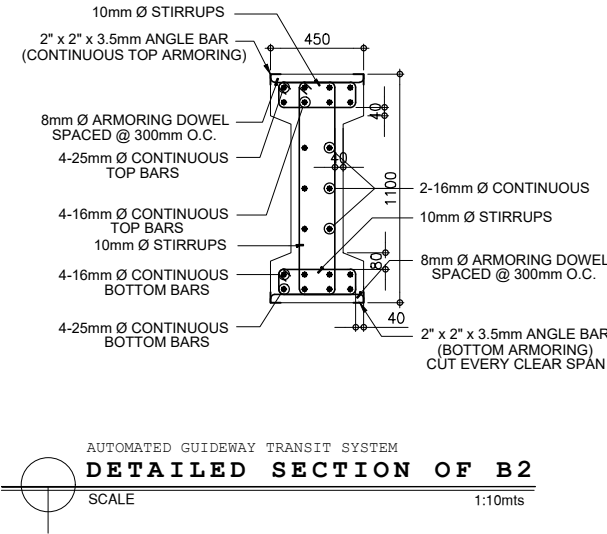
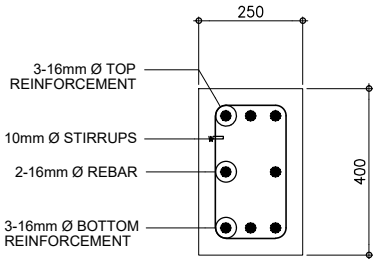
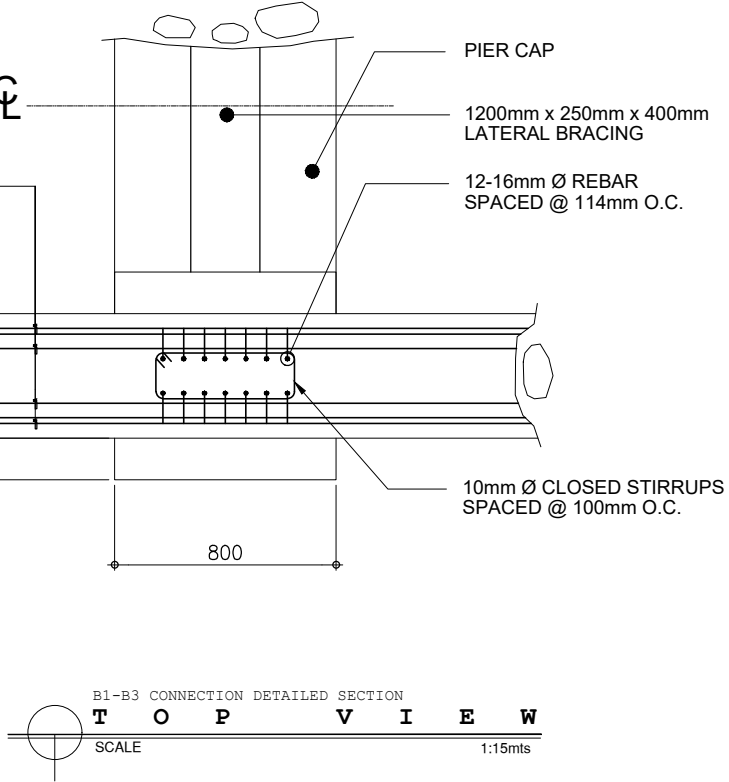
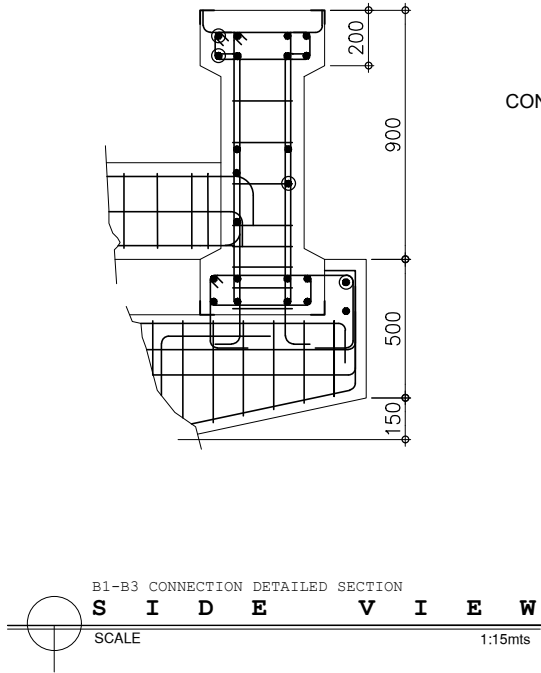
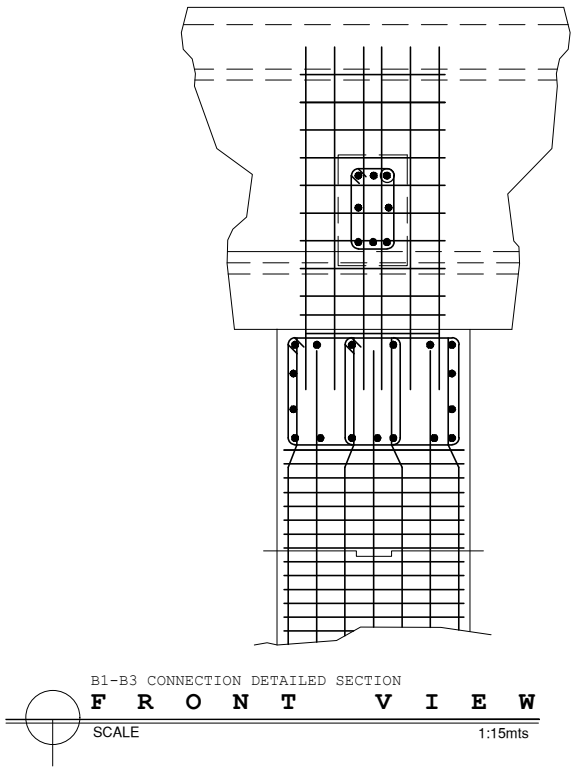
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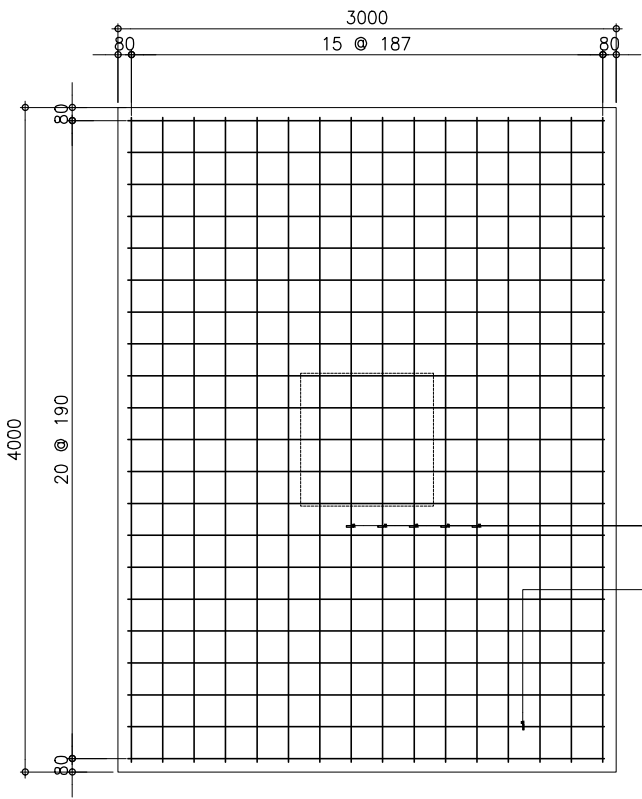


PROJECT TITLE		
INSTALLATION OF AUTOMATIC GUIDE-WAY TRANSIT (AGT) IN BPSU MAIN CAMPUS		
LOCATION:		
BATAAN PENINSULA STATE UNIVERSITY (MAIN CAMPUS), BALANGA CITY, BATAAN		
STRUCTURAL ENGINEER		
REG. NO. :		
PIR. NO. :		
PLACE :		
TIN NO. :		
MASTER PLUMBER/SANITARY ENGINEER		
REG. NO. :		
PIR. NO. :		
PLACE :		
TIN NO. :		
PROFESSIONAL ELECTRICAL ENGINEER		
REG. NO. :		
PIR. NO. :		
PLACE :		
TIN NO. :		
PROFESSIONAL MECHANICAL ENGINEER		
REG. NO. :		
PIR. NO. :		
PLACE :		
TIN NO. :		
REVISION		
NO.	DESCRIPTION	DATE
1		
2		
PREPARED BY:		
AR. ROXETTE S. UMEREZ		
ARCHITECT 1, BPSU TWG		
REG. NO. :		
PIR. NO. :		
PLACE :		
TIN NO. :		
REVIEWED BY:		
JASON ANTHONY BANZON		
CAMPUS DIRECTOR		
NOTED BY:		
ENGR. ALFREDO D. VALENTOS		
DIRECTOR OF PPES		
RECOMMENDED BY:		
DR. EDMUNDO C. TUNGOL		
VICE PRESIDENT ADMIN. & FINANCE		
APPROVED BY:		
DR. GREGORIO J. RODIS		
UNIVERSITY PRESIDENT		
REPUBLIC ACT 9266.		
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SHEET CONTENT:		SHEET NUMBER
		S3

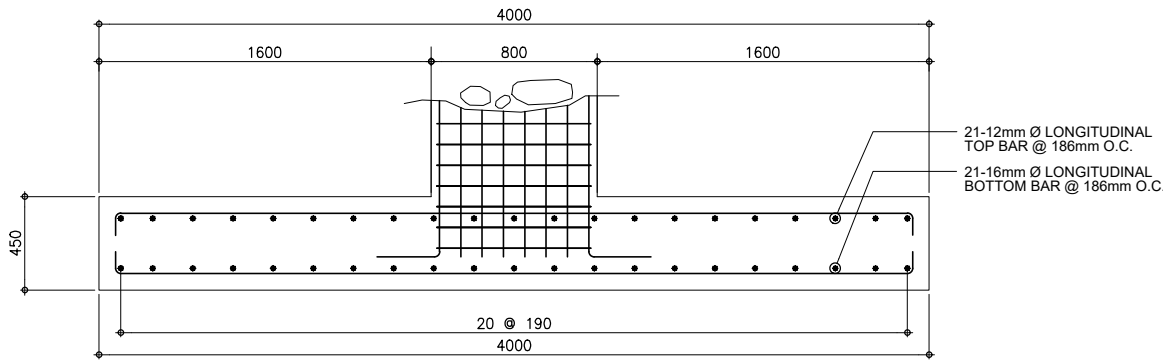
NOTE :
1. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE DESIGNER MUST BE NOTIFIED IMMEDIATELY OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.
2. IN CASE OF EMERGENCY, ANY DISCREPANCY ON ALL DRAWINGS & SPECIFICATIONS (ARCHITECTURAL, STRUCTURAL, SANITARY, ELECTRICAL, MECHANICAL ETC.) SHALL BE SUBJECT FOR VERIFICATION. DO NOT SCALE!



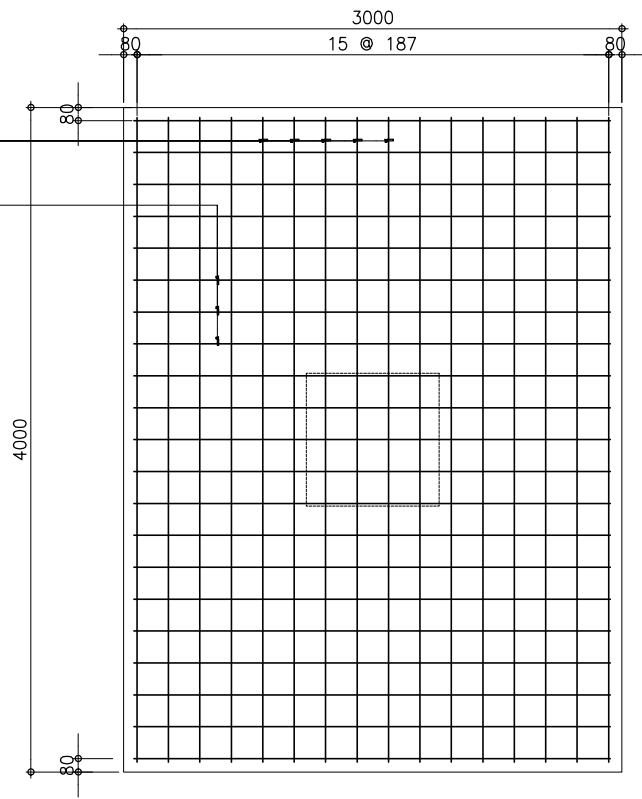
BATAAN PENINSULA STATE UNIVERSITY
TECHNICAL WORKING GROUP FOR INFRASTRUCTURE
CAPITOL COMPOUND, BROY, TENEJERO, CITY OF BALANGA, BATAAN,
E-MAIL: bpsu.tenjero2016@gmail.com/ bpsuagpec2017@gmail.com
TELEPHONE NO. : (047) 237-15-98



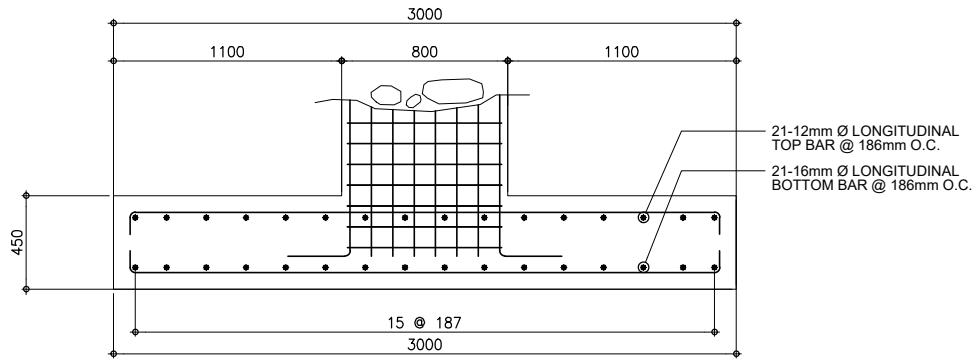
AUTOMATED GUIDEWAY TRANSIT SYSTEM
FOOTING BOTTOM BAR DETAIL
SCALE 1:30mts



AUTOMATED GUIDEWAY TRANSIT SYSTEM
DETAILED TRANSVERSE SECTION OF FOOTING
SCALE 1:30mts



AUTOMATED GUIDEWAY TRANSIT SYSTEM
FOOTING TOP BAR DETAIL
SCALE 1:30mts



AUTOMATED GUIDEWAY TRANSIT SYSTEM
DETAILED LONGITUDINAL SECTION OF FOOTING
SCALE 1:30mts

PROJECT TITLE
**INSTALLATION OF AUTOMATIC
GUIDE-WAY TRANSIT (AGT) IN
BPSU MAIN CAMPUS**

LOCATION:
BATAAN PENINSULA STATE UNIVERSITY (MAIN
CAMPUS), BALANGA CITY, BATAAN

STRUCTURAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

MASTER PLUMBER/SANITARY ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

PROFESSIONAL ELECTRICAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

PROFESSIONAL MECHANICAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

REVISION		
NO.	DESCRIPTION	DATE
1		
2		

PREPARED BY:

AR. ROXETTE S. UMEREZ
ARCHITECT 1, BPSU TWG
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

REVIEWED BY:

JASON ANTHONY BANZON
CAMPUS DIRECTOR
NOTED BY:

ENGR. ALFREDO D. VALENTOS
DIRECTOR OF PPES

RECOMMENDED BY:

DR. EDMUNDO C. TUNGOL
VICE PRESIDENT ADMIN. & FINANCE

APPROVED BY:

DR. GREGORIO J. RODIS
UNIVERSITY PRESIDENT

REPUBLIC ACT 9266.
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SHEET CONTENT: SHEET NUMBER:

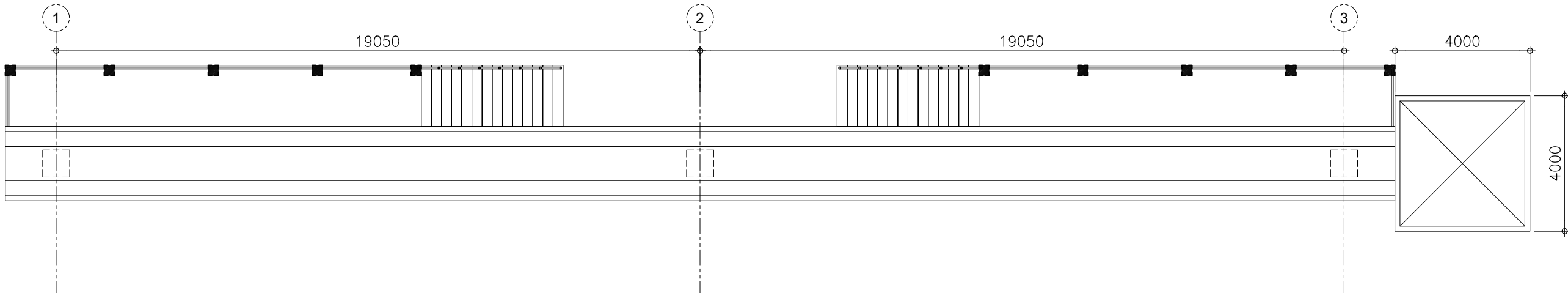
S4

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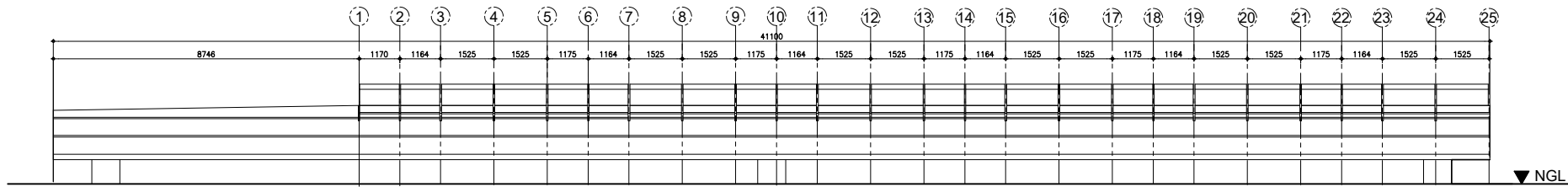
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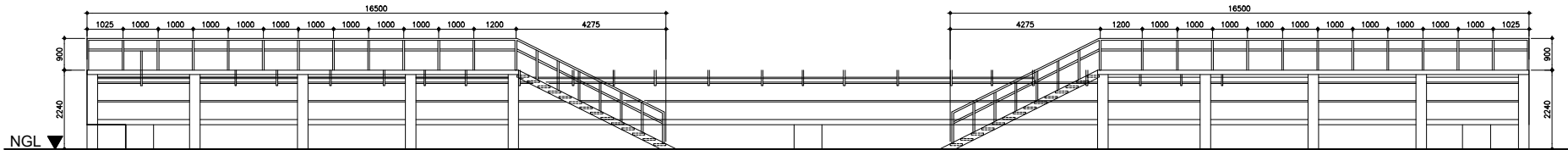
BATAAN PENINSULA STATE UNIVERSITY
TECHNICAL WORKING GROUP FOR INFRASTRUCTURE
CAPITOL COMPOUND, BROY, TENEJERO, CITY OF BALANGA, BATAAN,
E-MAIL: bpsu.ten@bpsu.edu.ph / bpsu@bpsu.edu.ph / bpsu@bpsu.edu.ph
TELEPHONE NO. : (047) 237-15-98



AUTOMATED GUIDEWAY TRANSIT SYSTEM
FLOOR PLAN
SCALE 1:75mts



AUTOMATED GUIDEWAY TRANSIT SYSTEM
FRONT ELEVATION
SCALE 1:100mts



AUTOMATED GUIDEWAY TRANSIT SYSTEM
REAR ELEVATION
SCALE 1:100mts

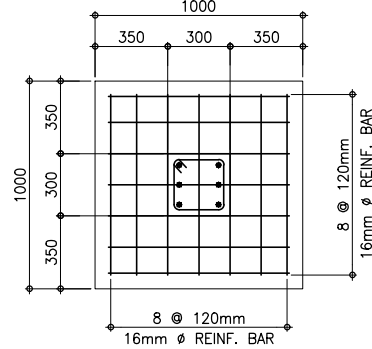
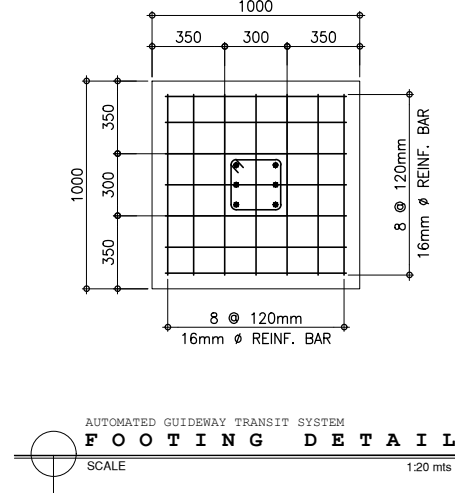
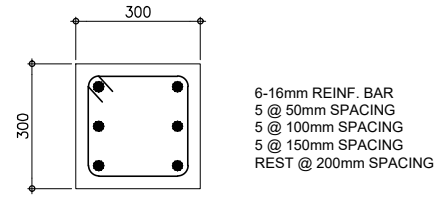
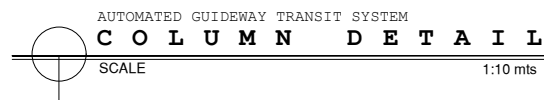
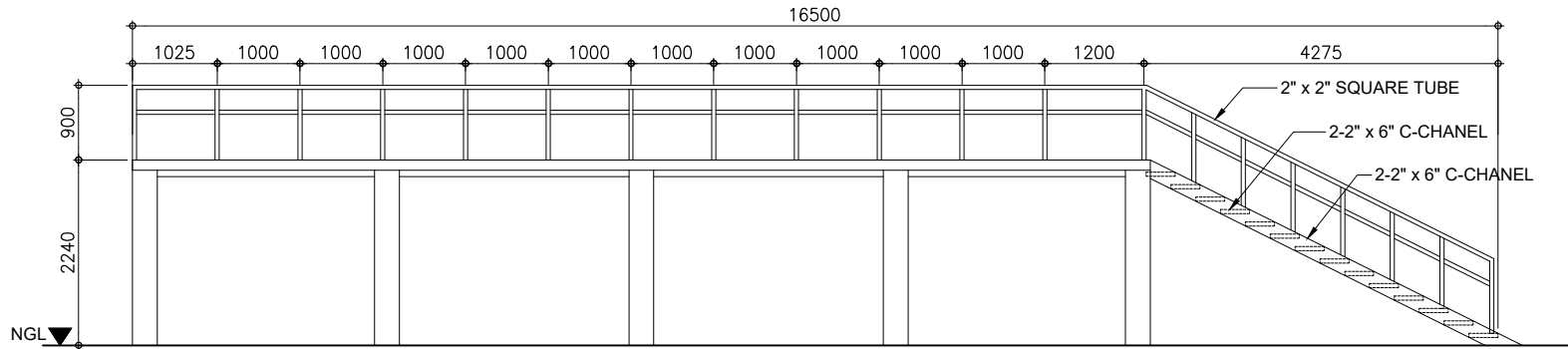
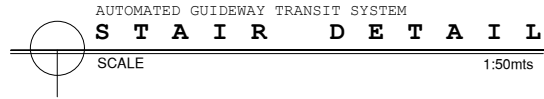
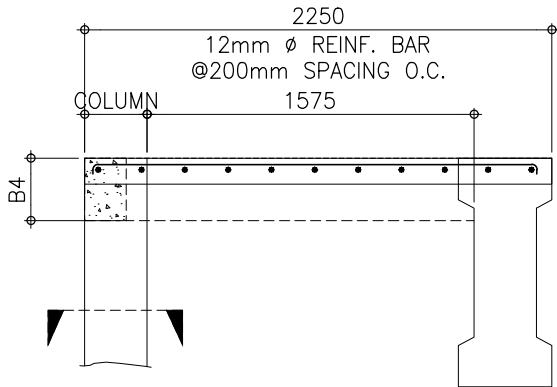
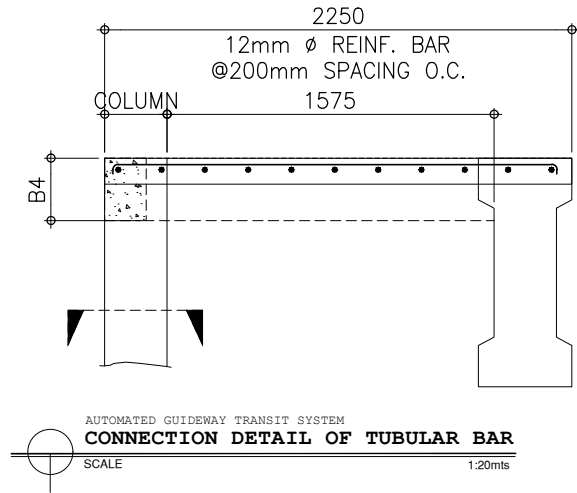
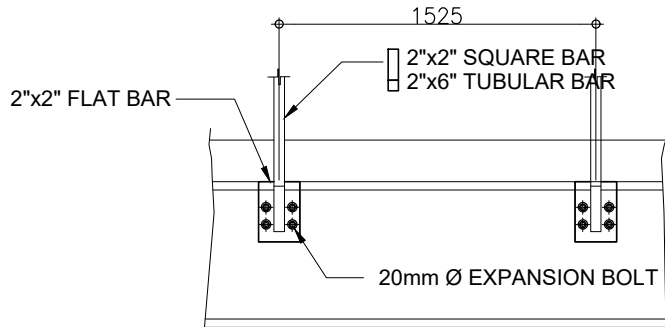
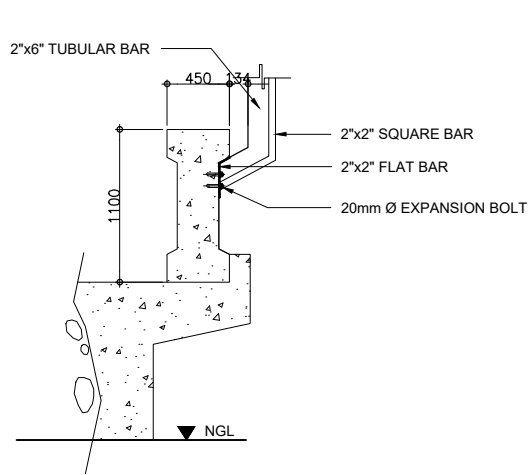
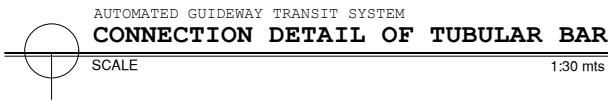
PROJECT TITLE		
INSTALLATION OF AUTOMATIC GUIDE-WAY TRANSIT (AGT) IN BPSU MAIN CAMPUS		
LOCATION		
BATAAN PENINSULA STATE UNIVERSITY (MAIN CAMPUS), BALANGA CITY, BATAAN		
STRUCTURAL ENGINEER		
REG. NO. :		
PIR. NO. :		
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REG. NO. :		
PIR. NO. :		
PLACE :		
TIN NO. :		
PROFESSIONAL MECHANICAL ENGINEER		
REG. NO. :		
PIR. NO. :		
PLACE :		
TIN NO. :		
REVISION		
NO.	DESCRIPTION	DATE
1		
2		
PREPARED BY:		
AR. ROXETTE S. UMEREZ		
ARCHITECT 1, BPSU TWG		
REG. NO. :		
PIR. NO. :		
PLACE :		
TIN NO. :		
REVIEWED BY:		
JASON ANTHONY BANZON		
CAMPUS DIRECTOR		
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ENGR. ALFREDO D. VALENTOS		
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VICE PRESIDENT ADMIN. & FINANCE		
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UNIVERSITY PRESIDENT		
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E-MAIL: bpsu.ten@bpsu.edu.ph / bpsu@bpsu.edu.ph / bpsu@bpsu.edu.ph
TELEPHONE NO. : (0477) 237-15-98



PROJECT TITLE
**INSTALLATION OF AUTOMATIC
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LOCATION:
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CAMPUS), BALANGA CITY, BATAAN

STRUCTURAL ENGINEER
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PTR. NO. :
PLACE :
TIN NO. :

MASTER PLUMBER/SANITARY ENGINEER
REG. NO. :
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PLACE :
TIN NO. :

PROFESSIONAL ELECTRICAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

PROFESSIONAL MECHANICAL ENGINEER
REG. NO. :
PTR. NO. :
PLACE :
TIN NO. :

REVISION		
NO.	DESCRIPTION	DATE
1		
2		

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