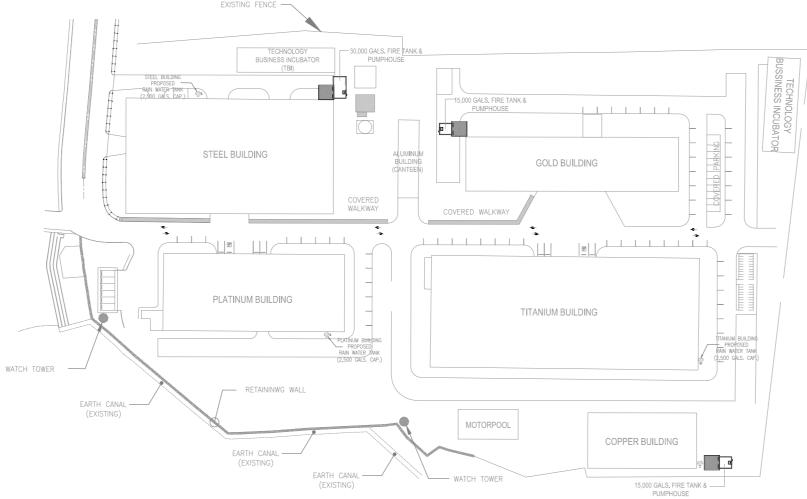
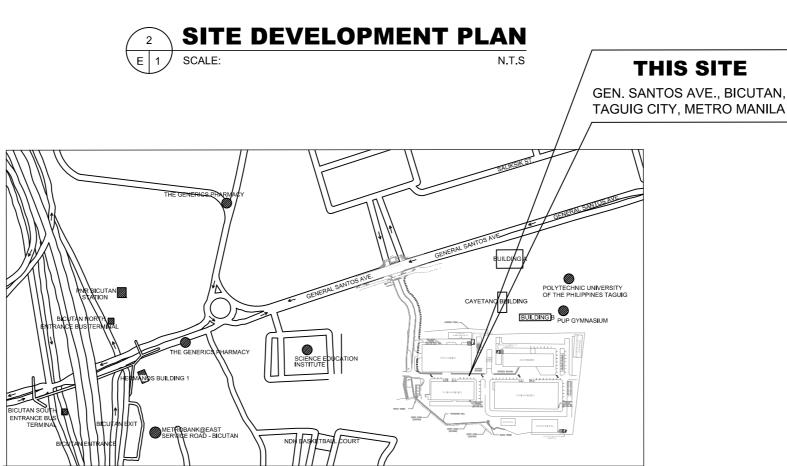
## **GENERAL NOTES:**

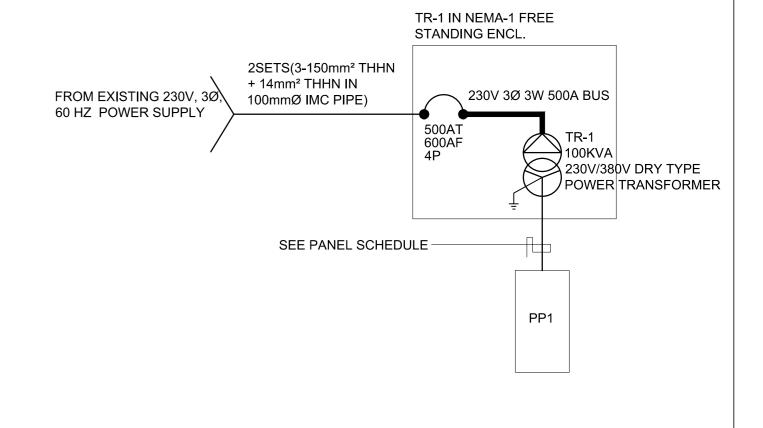
- 1. ALL ELECTRICAL WORKS HEREIN SHALL CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE NATIONAL BUILDING CODE, THE RULES AND REGULATIONS OF BUILDING ADMINISTRATION AND THE UTILITY COMPANY SERVING THE SITE.
- 2. ALL MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR THE LOCATION AND PURPOSE FOR WHICH THEY ARE INTENDED.
- 3. ALL ELECTRICAL WORKS HERE IN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY QUALIFIED AND LICENSED ELECTRICAL ENGINEER.
- 4. AFTER COMPLETION OF ELECTRICAL WORKS, THE CONTRACTOR MUST PERFORM THE FOLLOWING TEST.
  - A. INSULATION/ MEGGER TEST
  - B. OPERATIONAL/ FUNCTIONAL TEST
- PLAN SHOWS DIAGRAMMATICALLY LOCATION OF OUTLETS, SWITCHES, CONDUIT RUNS, PANEL BOARDS, LIGHTING FIXTURES AND SERVICE ENTRANCE. FINAL LOCATION WILL BE DETERMINE UPON JOINT COORDINATION WITH ARCHITECTURAL, CIVIL, MECHANICAL, AND EQUIPMENT INSTALLER OR AS PER DIRECTIVE OF OWNER'S AUTHORIZED REPRESENTATIVE.
- 6. LOCATION OF PANEL PP SHALL BE DETERMINED BY THE CONTRACTOR ON SITE TO SUIT ACTUAL FIELD CONDITION.

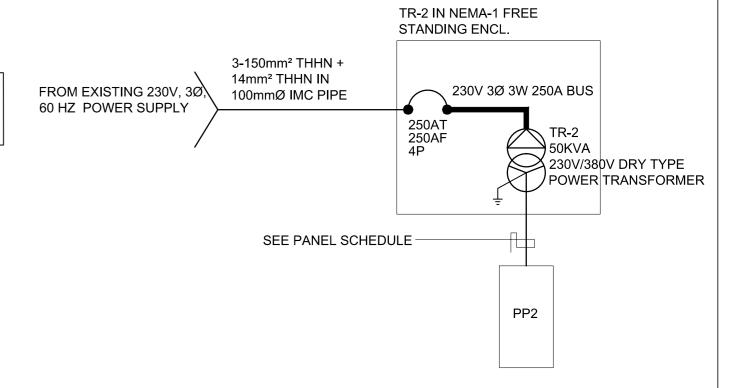
LEGEND & SYMBOLS							
	300mm x 1200mm SURFACE MOUNTED MOISTURE / DUST PROOF FLUORESCENT LUMINAIRE (2 - 20W)						
Sa	SINGLE GANG SWITCH COMPLETE WITH PLATE COVER						
<b>+</b>	DUPLEX CONVENIENCE OUTLET						
0	150mm ROUND SURFACE MOUNTED PINLIGHT (1x20W)						
/M/	ELECTRIC MOTOR						
CKT-1	CIRCUIT HOMERUN						
LP	PANELBOARD						





**VICINITY MAP** 

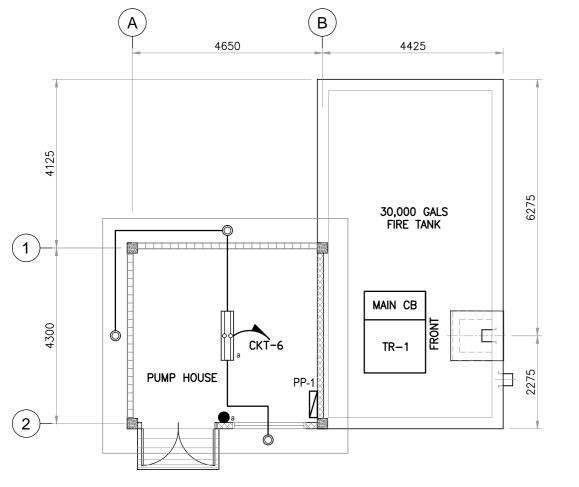






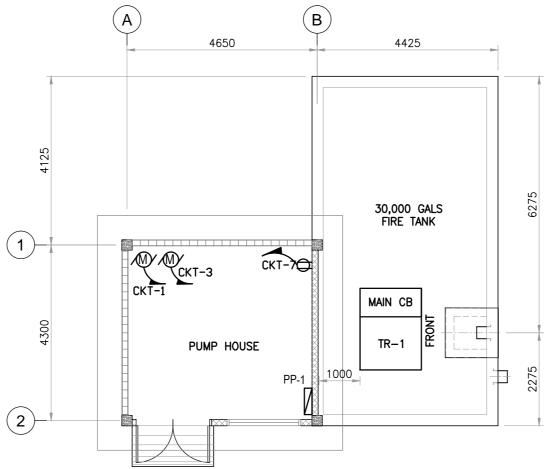


	PROFESSIONAL ELECTRICAL ENGINEER: PROJECT TITLE:		OWNER:	REVIEWED & CHECKED BY :	DESIGNED BY :	SHEET CONTENTS:	DRAWING NO. :	
es			DEGION OF FIRE FIGURING OVETEN	METAL INDUSTRY RESEARCH AND		CADD BY:	15,000 / 30,000 GALS. FIRE TANK & PUMPHOUSE	
reys	REG NO · PTP NO ·		DESIGN OF FIRE FIGHTING SYSTEM FOR MIRDC BUILDINGS	METAL INDUSTRY RESEARCH AND DEVELOPMENT CENTER (MIRDC)	RECOMMENDED BY:	DATE :	SITE DEVELOPMENT, VICINITY MAP	<b>E-</b> 1
611	REG. NO. :	PTR NO. :	. Grammas Bellebines			CHECKED BY:	GENERAL NOTES, LEGEND & SYMBOLS	SHEET NO.:
6441 com	DATE :	ISSUED ON:	LOCATION:	ADDRESS:	APPROVED BY :	APPROVED BY :		
	TIN:	ISSUED AT :	GEN. SANTOS AVE., BICUTAN, TAGUIG CITY, METRO MANILA	GEN. SANTOS AVE., BICUTAN, TAGUIG CITY, METRO MANILA		DATE :		

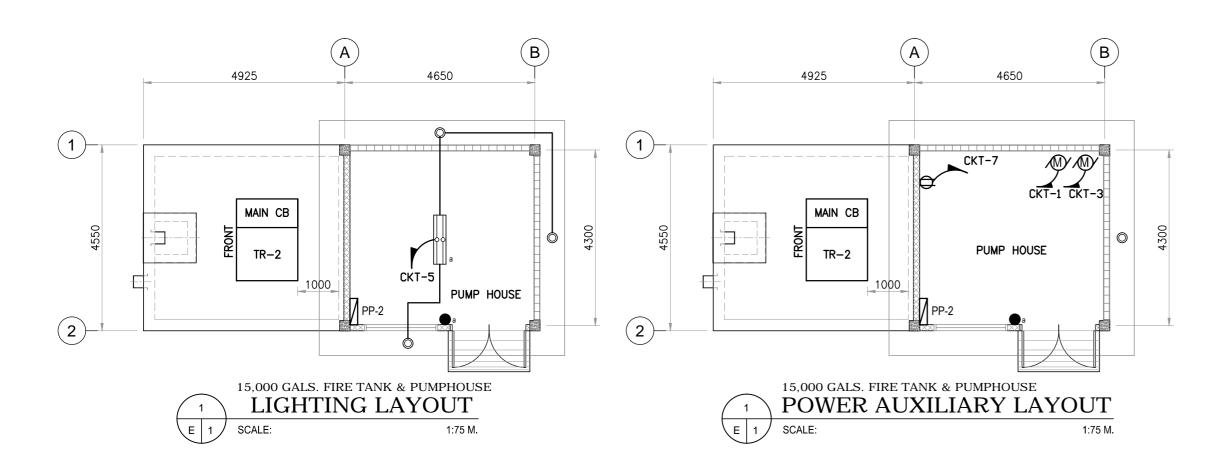


30,000 GALS. FIRE TANK & PUMPHOUSE

LIGHTING LAYOUT



30,000 GALS. FIRE TANK & PUMPHOUSE POWER & AUXILIARY LAYOUT



3-PI	HASE, 380/220V S/N VOLTS, 6	0 HERTZ	, 4-WIRE +	- 1-GROU	ND		BRAN	CHES: ALL B	OLT ON CB
СКТ	DESCRIPTION	VOLTS	VA		AMPERI	LOAD		PROTECTION	WIRES & CONDUIT
#			VA	AN	BN	CN	3Ø	FROILCIION	WIRES & CONDUIT
1	40 HP FIRE PUMP	380	59748				90.78	350AT,3P	3-250mm² THHN + 30mm² THHN IN 102mmØ IMC PIPE
2	SPACE FOR 400AF 3P CB								
3	3.0 HP JOCKEY PUMP	230	3876	9.73				40AT,1P	2-5.5mm² THHN + 3.5mm² THHN IN 25mmØ IMC PIPE
4	SPARE	230						30AT,1P	
5	LIGHTS	230	200		0.87			20AT,1P	2-3.5mm² + 1-3.5mm² THHN IN 15mmØ PVC PIPE
6	SPARE							20AT,1P	
7	OUTLETS	230	360			1.57		20AT,1P	2-3.5mm² + 1-3.5mm² THHN IN 15mmØ PVC PIPE
8	SPARE	230						30AT,1P	
	TOTAL		64184	9.73	0.87	1.57	90.78		

I = [(64184 / 230 / 1.732 + (25% x 90.78)] x 75% DF = 137.86 AMPS USE: 3 - 325mm² + 1- 325mm² + 1 - 30mm² THHN IN Ø100mm RSC PIPE

–	- FIRE PUMP PANEL HASE, 380/220V S/N VOLTS, 6	0 HERTZ	, 4-WIRE	+ 1-GROL	JND			OAF, 3-POLE OOLT ON CB	
CKT #	DESCRIPTION	VOLTS	١/٨		AMPER	E LOAD		PROTECTION	MIDEC & CONDUIT
			VA	AN	BN	CN	3Ø		WIRES & CONDUIT
1	20 HP FIRE PUMP	380	29874				45.39	70AT,3P	3-14mm² THHN + 8.0mm² THHN IN 32mmØ IMC PIPE
2	SPACE FOR 250AF 3P CB								
3	1.5 HP JOCKEY PUMP	230	1936	4.86				30AT,2P	2-5.5mm² THHN + 35mm² THHN IN 35mmØ IMC PIPE
4	SPARE	230						30AT,1P	
5	LIGHTS	230	200		0.87			20AT,1P	2-3.5mm² + 1-3.5mm² THHN IN 15mmØ PVC PIPE
6	SPARE							20AT,1P	
7	OUTLETS	230	360			1.57		20AT,1P	2-3.5mm² + 1-3.5mm² THHN IN 15mmØ PVC PIPE
8	SPARE	230						30AT,1P	
	TOTAL		32370	4.86	0.87	1.57	45.39		

MAIN FEEDER TOTAL CURRENT I = [(32370 / 230 / 1.732 + 25% x 45.39)] x 75% DF = 69.45 AMPS USE: 3 - 150mm<sup>2</sup> + 1 - 150mm<sup>2</sup> + 1 - 22mm<sup>2</sup> THHN IN Ø100mm RSC PIPE

7

GIBMA Engineering Services

Design - Construction - Project Management - Surveys

93 Kalikasan Street Karangalan Village Phase 2A, Dela Paz, Pasig City 1611 Tel. No.: 682 7114 Fax. No.: 682 8467 Cellphone No.: 0920 9226441 URL: www.gibma.com E-mail: gibma2003@yahoo.com

PROFESSIONAL	L ELECTRICAL ENGINEER :	PROJECT TITLE :	OWNER:	REVIEWED & CHECKED BY:	DESIGNED BY :		SHEET CONTENTS:	DRAWING NO. :	
	DECICAL OF FIDE FIGURING CYCTEM		METAL NIBLIOTEV DEGEAROULAND		CADD BY :	RHV	15,000 / 30,000 GALS. FIRE TANK & PUMPHOUSE	E 2	
_		DESIGN OF FIRE FIGHTING SYSTEM FOR MIRDC BUILDINGS	METAL INDUSTRY RESEARCH AND DEVELOPMENT CENTER (MIRDC)	RECOMMENDED BY:	DATE :		LIGHTING, POWER & AUXILIARY LAYOUT	<b>- - - -</b>	
REG. NO. :	PTR NO. :	T SIX WIINDO DOILDINGS			CHECKED BY :	ALC		SHEET NO.:	
DATE :	ISSUED ON:	LOCATION:	ADDRESS:	APPROVED BY:	APPROVED BY :			1	
TIN:	ISSUED AT:	GEN. SANTOS AVE., BICUTAN, TAGUIG CITY, METRO MANILA	GEN. SANTOS AVE., BICUTAN, TAGUIG CITY, METRO MANILA		DATE :				