

TESDA INNOVATION CENTER-ISAT  
**THIRD FLOOR FRAMING PLAN**  
 SCALE: 1:200 MTS



TECHNICAL EDUCATION  
 AND  
 SKILLS DEVELOPMENT  
 AUTHORITY

CONCURRED BY:  
  
 DIR. DAVID B. BUNALLAN  
 EXECUTIVE DIRECTOR, NTERD

RECOMMENDING APPROVAL:  
  
 DIR. JULIO C. OROZCO  
 DIRECTOR, AS  
 CHIEF OF STAFF  
 DIRECTOR-IN-CHARGE, SPU

APPROVED BY:  
  
 SEC. ISIDRO S. LAPEÑA, PH.D., CSEE  
 DIRECTOR GENERAL

PROJECT TITLE:  
 PROPOSED TESDA  
 INNOVATION CENTER - ISAT  
 LOCATION: Calatagan & Nagpartian

DESIGN AND SPECIFICATIONS AND  
 SUPERVISION OF CONSTRUCTION ARE THE  
 RESPONSIBILITIES OF THE REGISTERED  
 ENGINEER. THE REGISTERED ENGINEER  
 AND ARCHITECT SHALL BE RESPONSIBLE  
 FOR THE DESIGN AND SPECIFICATIONS  
 AND SUPERVISION OF CONSTRUCTION.  
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 RESPONSIBLE FOR THE DESIGN AND  
 SPECIFICATIONS AND SUPERVISION OF  
 CONSTRUCTION. THE REGISTERED  
 ARCHITECT SHALL BE RESPONSIBLE FOR  
 THE DESIGN AND SPECIFICATIONS AND  
 SUPERVISION OF CONSTRUCTION.

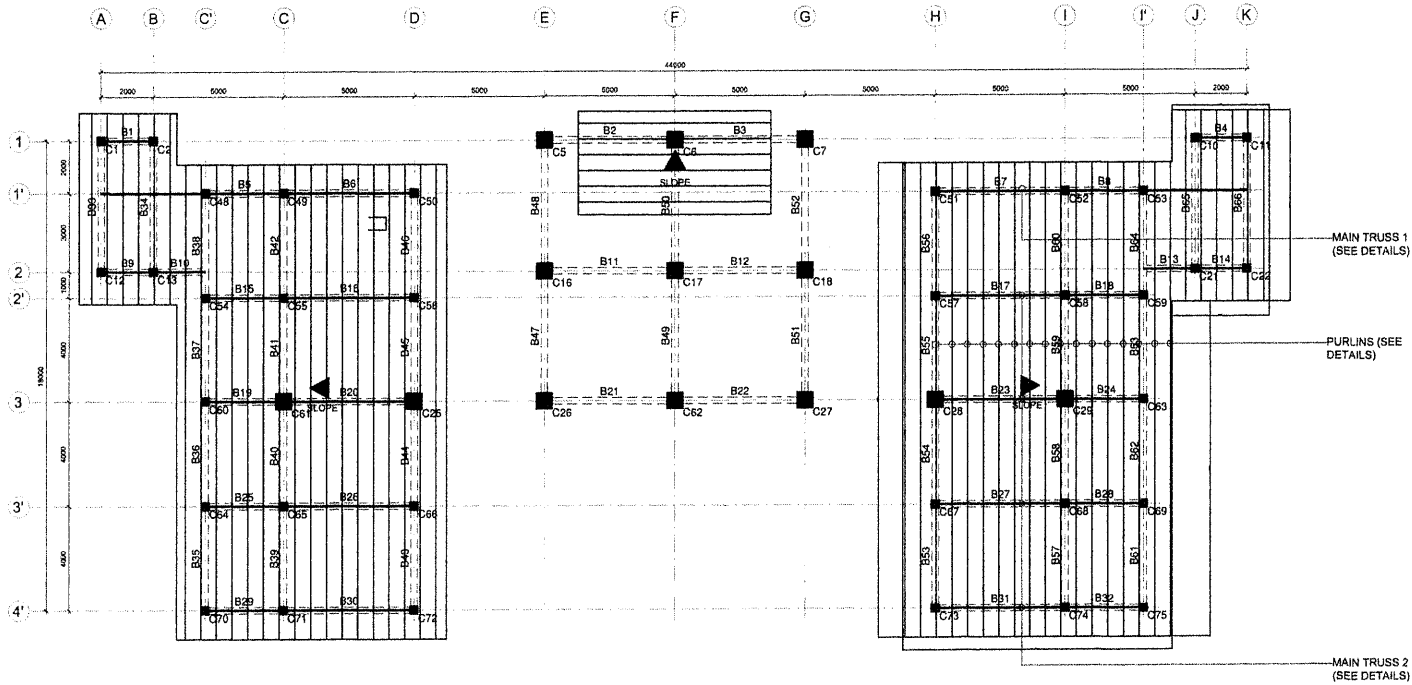
PREPARED BY:  
  
 ENGR. SUNSHINE P. ROSQUITA  
 CIVIL ENGINEER, SPU-ROD

REVIEWED AS TO PLAN:  
  
 ENGR. FRANCISCO B. NARAG, JR.  
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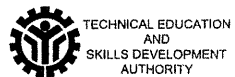
SUBMITTED BY:  
  
 ENGR. ROY LOUIE M.INGARACAL  
 HEAD, SPU-ROD

SHEET CONTENTS:  
 THIRD FLOOR FRAMING PLAN

SHEET NO.  
**S-7**



TESDA INNOVATION CENTER-ISAT  
**ROOF FRAMING PLAN**  
 SCALE: 1:200 MTS



CONCURRED BY:  
 DIR. DANILLO BUNYILLON  
 EXECUTIVE DIRECTOR, ITESO

RECOMMENDING APPROVAL:  
 DIR. JUVENILIO G. GONZALO  
 DIRECTOR, IAS  
 CHIEF OF STAFF  
 DIRECTOR-IN-CHARGE, SPU

APPROVED BY:  
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 DIRECTOR GENERAL

PROJECT TITLE:  
 PROPOSED TESDA  
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PREPARED BY:  
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 CIVIL ENGINEER, TESDA ISAT

SUBMITTED BY:  
 ENGR. ROY LOUISE MINGARACAL  
 HEAD OF SPU


SHEET CONTENTS:  
 ROOF FRAMING PLAN

SHEET NO.  
 S-8

BEAM SCHEDULE (C30:Fy420) (LEVEL: 12.2m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	
B1,B4	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	2-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B2,B3,B11,B12	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	23-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B5,B28	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	9-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B6,B7,B27,B30,B31,B33,B66	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	25-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B8,B29,B32	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	9-2L-#10@120 C/C	11-2L-#10@80 C/C	1-#16EF
B9	225	400	2-#16	2-#16	3-#16	3-#16	3-#16	3-#16 + 2-#16	11-2L-#10@80 C/C	2-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B10	225	400	2-#16	2-#16	3-#16	3-#16 + 2-#16	3-#16	3-#16	6-2L-#10@120 C/C	4-2L-#10@120 C/C	6-2L-#10@120 C/C	1-#16EF
B13	225	400	3-#16	2-#16	2-#16	3-#16	3-#16	3-#16 + 2-#16	6-2L-#10@120 C/C	4-2L-#10@120 C/C	6-2L-#10@120 C/C	1-#16EF
B14	225	400	3-#16	2-#16	2-#16	3-#16 + 2-#16	3-#16	3-#16	11-2L-#10@80 C/C	2-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B15	225	400	2-#16	2-#16	2-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	9-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B16,B26	225	400	2-#16	2-#16	3-#16	3-#16	3-#16	3-#16 + 2-#16	11-2L-#10@80 C/C	25-2L-#10@120 C/C	11-2L-#10@80 C/C	1-#16EF
B17	225	400	2-#16	2-#16	2-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	25-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B18	225	400	2-#16	2-#16	2-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	9-2L-#10@120 C/C	11-2L-#10@80 C/C	1-#16EF
B19	225	400	3-#16	2-#16	3-#16 + 2-#16	3-#16 + 2-#16	3-#16	3-#16	11-2L-#10@80 C/C	7-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B20,B22	225	400	2-#16	2-#16	3-#16	3-#16	3-#16	3-#16 + 2-#16	11-2L-#10@80 C/C	23-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B21,B23,B47,B48,B49,B50,B51,B52	225	400	2-#16	2-#16	2-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	23-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B24	225	400	2-#16	2-#16	2-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	7-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B25	225	400	3-#16	2-#16	3-#16	3-#16 + 2-#16	3-#16	3-#16	11-2L-#10@80 C/C	9-2L-#10@120 C/C	11-2L-#10@80 C/C	1-#16EF
B34,B65	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	25-2L-#10@120 C/C	11-2L-#10@80 C/C	1-#16EF
B35,B37,B63	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	17-2L-#10@120 C/C	11-2L-#10@80 C/C	1-#16EF
B36,B43,B46,B53,B56,B57,B60,B61,B62	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	17-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B38	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	17-2L-#10@120 C/C	11-2L-#10@80 C/C	2-#16EF
B39,B42	225	400	2-#16	2-#16	2-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	17-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B40,B41	225	400	2-#16	2-#16	2-#16	3-#16	3-#16	3-#16	11-2L-#10@80 C/C	16-2L-#10@120 C/C	11-2L-#10@80 C/C	1-#16EF
B44,B45,B54,B59	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	16-2L-#10@120 C/C	11-2L-#10@80 C/C	1-#16EF
B55,B58	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@80 C/C	16-2L-#10@120 C/C	11-2L-#10@80 C/C	-
B64	225	400	2-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#12@80 C/C	19-2L-#12@105 C/C	11-2L-#12@80 C/C	2-#16EF

TESDA INNOVATION CENTER-ISAT  
 BEAM SCHEDULE  
 SCALE: \_\_\_\_\_ NTS

 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SUBMITTER AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CLIENT AND CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES.	PREPARED BY:	REVIEWED AS TO PLAN:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	DIR. DAVID B. BUNGALLON EXECUTIVE DIRECTOR, INTSD	DIR. JULIO S. OROZCO DIRECTOR IN CHARGE, SPU	SEC. ISIDRO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - ISAT		ENGR. SUNSHINE S. ROSALITA CIVIL ENGINEER, TSP-002	ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA-ISAT	ENGR. ROY LOUIS P. MINGARACAL CIVIL ENGINEER, TSP-002	BEAM SCHEDULE	S-9


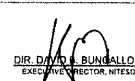

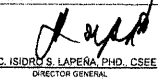
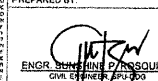
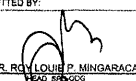
BEAM SCHEDULE (C30:Fy420) (LEVEL: 9.2m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR	DIAGONAL	REMARKS
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT			
B1	300	600	3-#16	3-#16	3-#16	4-#12	4-#12	4-#16	12-2L-#10@75 C/C	-	11-2L-#10@80 C/C	-	-	-
B2,B3,B48,B49	300	600	3-#16	3-#16	3-#16	4-#16	4-#12	4-#16	14-2L-#10@95 C/C	10-2L-#10@190 C/C	14-2L-#10@95 C/C	2-#16EF	-	-
B4,B5,B6,B7,B50,B51,B52,B53	300	500	4-#12	4-#12	4-#12	4-#16	4-#12	4-#16	15-2L-#10@75 C/C	14-2L-#10@165 C/C	15-2L-#10@75 C/C	-	-	-
B8,B9,B54,B55	300	600	4-#12	4-#12	4-#12	4-#16	4-#12	4-#16	17-2L-#10@75 C/C	10-2L-#10@190 C/C	17-2L-#10@75 C/C	-	-	-
B10	300	600	3-#16	3-#16	3-#16	4-#16	4-#12	4-#12	11-2L-#10@80 C/C	-	12-2L-#10@75 C/C	-	-	-
B11	300	500	4-#16	4-#16	4-#16	4-#16	4-#12	4-#16	11-2L-#10@165 C/C	15-2L-#10@100 C/C	18-2L-#10@95 C/C	2-#16EF	-	-
B12	300	500	3-#16	3-#16	3-#16	4-#16	4-#12	4-#16	11-2L-#10@165 C/C	9-2L-#10@165 C/C	12-2L-#10@155 C/C	2-#16EF	-	-
B13,B46	300	500	4-#12	4-#12	4-#12	3-#16	3-#12	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B14	300	500	4-#16	4-#16	4-#16	3-#20	3-#12	3-#16	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@160 C/C	2-#16EF	-	-
B15	250	350	3-#12	2-#12	3-#12	3-#12	3-#12	3-#16	11-2L-#10@75 C/C	2-2L-#10@115 C/C	11-2L-#10@75 C/C	-	-	-
B16	400	800	5-#16 + 5-#16	5-#16 + 5-#16 + 2-#12	5-#16 + 3-#16	4-#20 + 4-#20 + 4-#20	4-#16	4-#20 + 4-#20 + 4-#12	19-4L-#10@90 C/C	63-4L-#10@95 C/C	23-4L-#10@75 C/C	4-#16EF	-	-
B17,B20,B41	300	500	3-#16	3-#16	3-#16	4-#20	4-#12	4-#16	12-2L-#10@95 C/C	13-2L-#10@165 C/C	12-2L-#10@95 C/C	-	-	-
B18	300	500	4-#12	4-#12	4-#12	4-#16	4-#12	4-#16	15-2L-#10@75 C/C	13-2L-#10@165 C/C	15-2L-#10@75 C/C	-	-	-
B19	300	500	3-#16	3-#16	3-#16	4-#16	4-#12	4-#20	12-2L-#10@95 C/C	13-2L-#10@165 C/C	12-2L-#10@95 C/C	-	-	-
B21	300	600	3-#16	3-#16	3-#16	4-#16	4-#12	4-#20	14-2L-#10@95 C/C	10-2L-#10@190 C/C	14-2L-#10@95 C/C	-	-	-
B22	300	600	4-#16	4-#16 + 2-#12	4-#16	4-#20	4-#12	4-#16 + 4-#16	14-4L-#10@95 C/C	14-4L-#10@140 C/C	14-4L-#10@95 C/C	2-#16EF	-	-
B23	250	350	3-#12	2-#12	3-#12	3-#12	3-#12	3-#12	11-2L-#10@75 C/C	1-2L-#10@115 C/C	11-2L-#10@75 C/C	1-#12EF	-	-
B24	250	400	2-#12	3-#12	3-#12	3-#12	3-#12	3-#12	9-2L-#10@125 C/C	7-2L-#10@125 C/C	9-2L-#10@125 C/C	-	-	-
B25,B35	300	500	4-#12	4-#12	4-#12	4-#12	4-#12	4-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B26	300	500	4-#12	4-#12	4-#12	3-#20	3-#12	3-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	2-#16EF	-	-
B27	250	400	2-#12	3-#12	3-#12	3-#16	3-#12	3-#12	9-2L-#10@125 C/C	7-2L-#10@125 C/C	9-2L-#10@125 C/C	-	-	-
B28	400	800	5-#16 + 5-#16 + 3-#12	5-#16 + 5-#16 + 4-#12	5-#16 + 5-#16	4-#20 + 4-#20 + 4-#20 + 4-#16	4-#12	4-#20 + 4-#20 + 4-#20	23-4L-#10@75 C/C	70-4L-#10@85 C/C	18-4L-#10@95 C/C	3-#16EF	-	-
B29,B31,B39	300	500	3-#16	3-#16	3-#16	3-#20	3-#12	3-#20	12-2L-#10@95 C/C	13-2L-#10@165 C/C	12-2L-#10@95 C/C	-	-	-
B30	400	800	3-#16	5-#16 + 5-#16	5-#16 + 3-#16	5-#16 + 5-#16 + 4-#16	5-#12	5-#16 + 5-#16 + 5-#16	23-2L-#10@75 C/C	70-2L-#10@85 C/C	23-2L-#10@75 C/C	3-#16EF	-	-

TESDA INNOVATION CENTER-ISAT  

**BEAM SCHEDULE**  
 SCALE: \_\_\_\_\_ NTS

NTS


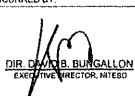

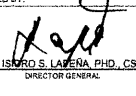
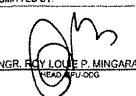
 <b>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</b>	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	DESIGNED AND PREPARED BY:	PREPARED BY:	REVIEWED AS TO PLAN:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	 DIR. DAVID L. BUNCALLAN EXECUTIVE DIRECTOR, NITESO	 DIR. JUAN O. OROZCO DIRECTOR IV, AS CHIEF OF STAFF DIRECTOR-IN-CHARGE, EIU	 SEC. ISIDRO S. LAPEÑA, PhD, CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - ISAT	ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA-ISAT	 ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA-ISAT	 ENGR. ROY LOUIE P. MINGARCAL CIVIL ENGINEER, TESDA-ISAT	BEAM SCHEDULE	<b>S-10</b>	

CONTINUATION (LEVEL: 9.2m)

B32	300	600	4-#16	4-#16	4-#16	3-#20	3-#12	+ 3-#20 3-#16	14-2L-#10@95 C/C	10-2L-#10@190 C/C	14-2L-#10@95 C/C	-	-	-
B33	300	600	4-#16	+ 4-#16 4-#12	+ 4-#16 + 2-#12	+ 3-#20 3-#16	3-#12	+ 3-#20 3-#20	14-2L-#12@95 C/C	19-2L-#12@100 C/C	17-2L-#12@75 C/C	2-#16EF	-	-
B34	250	400	2-#16	2-#16	2-#16	2-#16	2-#12	2-#12	9-2L-#10@125 C/C	7-2L-#10@125 C/C	9-2L-#10@125 C/C	1-#16EF	-	-
B36,B45	300	500	4-#12	4-#12	4-#12	4-#16	4-#12	4-#16	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	2-#16EF	-	-
B37	250	400	2-#12	3-#12	3-#12	2-#20	2-#12	2-#12	9-2L-#10@125 C/C	7-2L-#10@125 C/C	9-2L-#10@125 C/C	-	-	-
B38	400	850	+ 5-#16 5-#16	+ 5-#16 + 5-#16 + 2-#12	+ 5-#16 + 3-#16	+ 4-#20 + 4-#20 + 4-#20	4-#16	+ 4-#20 + 4-#20 + 4-#12	20-4L-#10@90 C/C	44-4L-#10@130 C/C	24-4L-#10@75 C/C	5-#16EF	-	-
B40	400	800	5-#16	+ 5-#16 + 4-#12	+ 5-#16 + 3-#12	+ 5-#16 + 5-#16 + 5-#12	5-#12	+ 5-#16 + 5-#16 + 3-#16	23-4L-#10@75 C/C	41-4L-#10@145 C/C	23-4L-#10@75 C/C	3-#16EF	-	-
B42	300	600	4-#16	4-#16	4-#16	4-#16	4-#12	+ 4-#16 3-#16	14-2L-#10@95 C/C	10-2L-#10@190 C/C	14-2L-#10@95 C/C	-	-	-
B43	300	600	4-#16	+ 4-#16 + 4-#12	4-#16	+ 4-#16 3-#16	4-#12	+ 4-#16 + 4-#16	14-4L-#10@95 C/C	14-4L-#10@140 C/C	14-4L-#10@95 C/C	2-#16EF	-	-
B44	300	500	4-#16	4-#16	4-#16	4-#16	4-#12	4-#16	11-2L-#10@165 C/C	16-2L-#10@95 C/C	18-2L-#10@95 C/C	2-#16EF	-	-
B47	300	500	4-#16	4-#16	4-#16	3-#20	3-#12	3-#16	11-2L-#10@165 C/C	10-2L-#10@155 C/C	12-2L-#10@145 C/C	2-#16EF	-	-
B56	300	500	4-#16	4-#16	4-#16	4-#16 + 3-#16	4-#12	4-#20	12-4L-#10@95 C/C	31-4L-#10@75 C/C	12-4L-#10@95 C/C	3-#16EF	-	-
B57,B96	300	500	3-#16	3-#16	3-#16	4-#20	4-#12	4-#16	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-	-	-
B58,B97	300	500	3-#16	3-#16	3-#16	4-#16	4-#12	4-#20	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-	-	-
B59	300	500	4-#16	4-#16	4-#16	4-#20	4-#12	+ 4-#16 3-#16	12-2L-#10@95 C/C	22-2L-#10@105 C/C	12-2L-#10@95 C/C	2-#16EF	-	-
B60	300	500	4-#12	4-#12	4-#12	4-#12	4-#16	4-#20	7-2L-#10@155 C/C	5-2L-#10@155 C/C	7-2L-#10@155 C/C	2-#16EF	-	-
B61	300	500	4-#16	4-#16	4-#16	4-#20	4-#12	4-#20	14-4L-#10@120 C/C	9-4L-#10@165 C/C	11-4L-#10@165 C/C	2-#16EF	-	-
B62	300	500	3-#16	3-#16	3-#16	4-#20	4-#12	4-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	21-2L-#10@80 C/C	2-#16EF	-	-
B63	300	500	4-#12	4-#12	4-#12	4-#20	4-#12	4-#12	8-2L-#10@145 C/C	6-2L-#10@145 C/C	8-2L-#10@145 C/C	2-#16EF	-	-
B64	300	600	4-#16	+ 4-#16 + 4-#16	4-#16	+ 3-#20 + 3-#20 + 3-#20	3-#16	3-#20	20-2L-#10@80 C/C	17-2L-#10@85 C/C	9-2L-#10@190 C/C	2-#16EF	-	-
B65	300	600	3-#16	3-#16	3-#16	3-#20	3-#12	3-#16	12-2L-#10@150 C/C	8-2L-#10@190 C/C	10-2L-#10@190 C/C	2-#16EF	-	-
B66	300	600	3-#16	3-#16	3-#16	3-#16	3-#12	3-#20	10-2L-#10@190 C/C	8-2L-#10@190 C/C	12-2L-#10@145 C/C	2-#16EF	-	-
B67	300	600	4-#16	+ 4-#16 + 4-#12	4-#16	3-#20	3-#16	+ 3-#20 + 3-#20 + 3-#20	9-2L-#10@190 C/C	16-2L-#10@90 C/C	19-2L-#10@85 C/C	2-#16EF	-	-
B68	300	600	4-#16	+ 4-#16 + 4-#12	+ 4-#16 + 4-#12	+ 4-#16 + 4-#16 + 2-#12	4-#16	+ 4-#16 + 4-#16 + 4-#12	17-4L-#10@75 C/C	16-4L-#10@120 C/C	17-4L-#10@75 C/C	2-#16EF	-	C35:Fy410
B69	300	600	+ 4-#16 + 4-#12	4-#16	4-#16	+ 4-#16 + 4-#16 + 4-#12	4-#16	+ 4-#16 + 4-#16	17-4L-#12@75 C/C	10-4L-#12@190 C/C	14-4L-#12@95 C/C	3-#16EF	-	C35:Fy410

TESDA INNOVATION CENTER-ISAT  
BEAM SCHEDULE  
SCALE: NTS

NTS






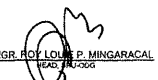
 <p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	<p>DESIGNER AND ENGINEER'S SIGNATURE AND THE INTELLIGIBLE PROPERTY AND DOCUMENTS OF TECHNICAL ASSOCIATION AND OTHERS. THE USER SHALL BE RESPONSIBLE AND LIABLE FOR THE USE OF THE INFORMATION AND DATA HEREIN FOR ANY PURPOSES OTHER THAN THAT FOR WHICH IT WAS ORIGINALLY INTENDED. THE USER SHALL NOT BE HELD RESPONSIBLE FOR ANY REPRODUCTION OF AND FOR THE DISSEMINATION OF THE INFORMATION CONTAINED HEREIN FOR ANY PURPOSES OTHER THAN THAT FOR WHICH IT WAS ORIGINALLY INTENDED.</p>	PREPARED BY:	REVIEWED AS TO PLAN:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	 DIR. DANILLO B. BUNGALLON EXECUTIVE DIRECTOR, NTEED	 DIR. JULIETO D. OROZCO DIRECTOR IN CHARGE, AS CHIEF OF STAFF DIRECTOR-IN-CHARGE, SPU	 SEC. ISIDRO S. LAVENA, PH.D., CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - ISAT		ENGR. SUNSHINE P. ROSA JITA CIVIL ENGINEER, SPU	ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA-ISAT	 ENGR. ROY LORIE P. MINGARACAL HEAD, SPU-006	BEAM SCHEDULE	S-11

CONTINUATION (LEVEL: 9.2m)

B70	300	600	4-#16	4-#16	4-#16 + 4-#12	4-#16 + 4-#16	4-#12	4-#16 + 4-#16 + 4-#12	14-4L-#10@95 C/C	10-4L-#10@190 C/C	17-4L-#10@75 C/C	3-#16EF	-	C35:Fy410
B71	300	600	4-#16 + 4-#12	4-#16 + 4-#12	4-#16 + 2-#12	4-#16 + 4-#16 + 4-#12	4-#12	4-#16 + 4-#16 + 2-#12	17-4L-#10@75 C/C	16-4L-#10@120 C/C	17-4L-#10@75 C/C	2-#16EF	-	C35:Fy410
B72,B73,B78,B79 B80	300	500	3-#16	3-#16	3-#16	4-#20	4-#12	4-#20	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-	-	-
B74,B81	300	500	4-#16	4-#16	4-#16	4-#20	4-#12	4-#20	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	2-#16EF	-	-
B75,B82	300	500	4-#16	4-#16	4-#16	4-#20	4-#12	4-#20	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-	-	-
B76	300	500	4-#12	4-#12	4-#12	4-#16 + 3-#16	4-#12	4-#16	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	1-#16EF	-	-
B77	300	500	4-#12	4-#12	4-#12	4-#16	4-#12	4-#16	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-	-	-
B83	300	500	4-#16	4-#16 + 2-#12	4-#16 + 2-#12	4-#16 + 3-#20	3-#16	4-#16 + 3-#20	13-2L-#12@90 C/C	26-2L-#12@90 C/C	15-2L-#12@75 C/C	2-#16EF	-	-
B84	300	500	4-#16 + 2-#12	4-#16	4-#16	4-#16 + 3-#20	3-#12	4-#16 + 3-#20 + 2-#16	15-2L-#12@75 C/C	14-2L-#12@165 C/C	12-2L-#12@95 C/C	2-#16EF	-	-
B85	300	500	4-#16	4-#16	4-#16 + 2-#12	4-#16 + 2-#16	3-#12	4-#16 + 3-#20	12-2L-#12@95 C/C	14-2L-#12@165 C/C	15-2L-#12@75 C/C	2-#16EF	-	-
B86	300	500	4-#16 + 2-#12	4-#16 + 2-#12	4-#16 + 2-#12	4-#16 + 3-#20	3-#12	4-#16 + 3-#20 + 3-#20	15-2L-#12@75 C/C	26-2L-#12@90 C/C	15-2L-#12@75 C/C	2-#16EF	-	-
B87	300	600	4-#16 + 2-#12	4-#16 + 4-#12	4-#16 + 2-#12	4-#16 + 3-#20	3-#16	4-#16 + 3-#20	17-2L-#12@75 C/C	19-2L-#12@100 C/C	17-2L-#12@75 C/C	2-#16EF	-	-
B88	300	600	4-#16 + 2-#12	4-#16	4-#16	4-#16 + 3-#20	3-#12	4-#16 + 3-#16	17-2L-#12@75 C/C	10-2L-#12@190 C/C	14-2L-#12@95 C/C	2-#16EF	-	-
B89	300	600	4-#16	4-#16	4-#16 + 2-#12	4-#16 + 3-#16	3-#16	4-#16 + 3-#20	14-2L-#12@95 C/C	10-2L-#12@190 C/C	17-2L-#12@75 C/C	2-#16EF	-	-
B90	300	600	4-#16	4-#16 + 4-#12	4-#16 + 2-#12	4-#16 + 3-#20	3-#12	4-#16 + 3-#20	14-2L-#12@95 C/C	18-2L-#12@110 C/C	17-2L-#12@75 C/C	2-#16EF	-	-
B91	300	500	4-#12	4-#12	4-#12	4-#12	4-#12	4-#20	7-2L-#10@165 C/C	5-2L-#10@165 C/C	7-2L-#10@165 C/C	2-#16EF	-	-
B92	300	500	3-#16	3-#16	3-#16	4-#20	4-#12	4-#20	21-2L-#10@80 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	2-#16EF	-	-
B93	300	500	4-#12	4-#12	4-#12	4-#20	4-#12	4-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	16-2L-#10@110 C/C	2-#16EF	-	-
B94	300	500	4-#12	4-#12	4-#12	4-#20	4-#12	4-#12	7-2L-#10@165 C/C	5-2L-#10@165 C/C	7-2L-#10@165 C/C	2-#16EF	-	-
B95	300	500	4-#16	4-#16	4-#16	4-#16 + 3-#16	4-#12	4-#20	13-2L-#10@85 C/C	29-2L-#10@80 C/C	13-2L-#10@85 C/C	2-#16EF	-	-
B98	300	500	4-#16	4-#16	4-#16	4-#20	4-#12	4-#16 + 3-#16	13-2L-#10@90 C/C	25-2L-#10@95 C/C	13-2L-#10@85 C/C	2-#16EF	-	-

TESDA INNOVATION CENTER-ISAT  
**BEAM SCHEDULE**  
 SCALE: \_\_\_\_\_ NTS

NTS







 <b>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</b>	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED AS TO PLAN:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	 DIR. DAVID B. BLNGALLON EXECUTIVE DIRECTOR, NITSD	 DIR. JUANA SOROZCO DIRECTOR IN CHARGE, STAFF	 SEC. ISIDRO S. LARANA, PH.D., CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - ISAT	DRAWING AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY AND SHALL BE LOANED TO THE CLIENT FOR THE PROJECT ONLY. NO PART OF THIS DRAWING SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.	 ENGR. SHOSHINA P. ROSQUITA CIVIL ENGINEER, SP-1000	ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA-ISAT	 ENGR. ROY LOUIE P. MINGARACAL HEAD, ST-2000	BEAM SCHEDULE

BEAM SCHEDULE (C28:Fy410) (LEVEL: 5.6m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	
B1	300	500	3-#16	3-#16	3-#16	4-#16	4-#16	4-#20	10-2L-#12@95 C/C	-	10-2L-#12@90 C/C	-
B2,B3,B8,B9,B20,B21,B48,B49,B50,B51,B52,B53,B54,B55,B78,B79,B80,B81,B82,B83,B84,B85	300	500	3-#16	3-#16	3-#16	4-#20	4-#16	4-#20	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-
B4	300	600	3-#16	3-#16	3-#16	4-#20	4-#16	4-#20	14-2L-#10@95 C/C	10-2L-#10@190 C/C	14-2L-#10@95 C/C	-
B5	300	600	4-#16	4-#16	4-#16	4-#20	4-#16	4-#20	14-2L-#10@95 C/C	10-2L-#10@190 C/C	14-2L-#10@95 C/C	-
B6	300	600	4-#16	4-#16	4-#16	4-#20	4-#16	4-#20	17-2L-#10@75 C/C	23-2L-#10@85 C/C	16-2L-#10@80 C/C	2-#16EF
B7	300	500	4-#16	4-#16	4-#16	4-#20	4-#16	4-#20	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-
B10	300	500	3-#16	3-#16	3-#16	4-#20	4-#16	4-#16	10-2L-#12@90 C/C	-	10-2L-#12@95 C/C	-
B11	250	400	2-#16	2-#16	2-#16	3-#16	3-#16	3-#20	14-2L-#10@125 C/C	12-2L-#10@125 C/C	14-2L-#10@125 C/C	1-#16EF
B12	250	400	2-#16	2-#16	2-#16	3-#20	3-#16	3-#16	14-2L-#10@125 C/C	12-2L-#10@125 C/C	14-2L-#10@125 C/C	1-#16EF
B13	250	350	2-#16	2-#16	2-#16	3-#16	3-#16	3-#16	8-2L-#10@115 C/C	6-2L-#10@115 C/C	8-2L-#10@115 C/C	1-#12EF
B14,B15,B22,B23,B24,B33,B34,B35	300	500	3-#16	3-#16	3-#16	4-#20	4-#16	4-#20	12-2L-#10@95 C/C	13-2L-#10@165 C/C	12-2L-#10@95 C/C	-
B16	300	600	4-#16	4-#16	4-#16	4-#20	4-#16	4-#16 + 4-#16 3-#16	15-2L-#10@90 C/C	21-2L-#10@85 C/C	17-2L-#10@75 C/C	2-#16EF
B17	300	600	4-#16	4-#16	4-#16	4-#16 + 4-#16 3-#16	4-#16	4-#16 + 4-#16 3-#16	17-2L-#10@75 C/C	21-2L-#10@90 C/C	14-2L-#10@95 C/C	2-#16EF
B18	300	600	4-#16	4-#16	4-#16	4-#16 + 4-#16 3-#16	4-#16	4-#16 + 4-#16 3-#16	17-2L-#10@75 C/C	22-2L-#10@85 C/C	17-2L-#10@75 C/C	2-#16EF
B19	300	500	4-#16	4-#16	4-#16	4-#16 + 4-#16 3-#16	4-#16	4-#20	12-2L-#10@95 C/C	13-2L-#10@165 C/C	12-2L-#10@95 C/C	-
B25	400	800	5-#16	5-#16 + 2-#16	5-#16 + 2-#16	4-#20 + 4-#20	4-#16	4-#20 + 4-#20	23-4L-#10@75 C/C	47-4L-#10@125 C/C	23-4L-#10@75 C/C	3-#16EF
B26,B37	300	500	3-#16	3-#16	3-#16	3-#20	3-#16	3-#20	12-2L-#10@95 C/C	13-2L-#10@165 C/C	12-2L-#10@95 C/C	-
B27,B28,B38,B39,B40,B41,B42,B43,B44,B45,B46,B47	300	500	3-#16	3-#16	3-#16	3-#20	3-#16	3-#20	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-
B29	250	400	2-#16	3-#16	2-#16	3-#20	3-#16	3-#16 + 3-#16	14-2L-#10@125 C/C	12-2L-#10@125 C/C	14-2L-#10@125 C/C	-
B30	250	400	2-#16	3-#16	2-#16	3-#16 + 3-#16	3-#16	3-#16	14-2L-#10@125 C/C	12-2L-#10@125 C/C	14-2L-#10@125 C/C	1-#16EF
B31	250	400	2-#16	3-#16	2-#16	3-#16	3-#16	3-#16 + 3-#16	14-2L-#10@125 C/C	12-2L-#10@125 C/C	14-2L-#10@125 C/C	1-#16EF
B32	250	400	2-#16	2-#16	2-#16	3-#16 + 3-#16	3-#16	3-#20	14-2L-#10@125 C/C	12-2L-#10@125 C/C	14-2L-#10@125 C/C	-
B36	400	800	5-#16	5-#16 + 3-#16	5-#16 + 3-#16	5-#16 + 5-#16 + 5-#16	5-#16	5-#16 + 5-#16 + 5-#16	18-4L-#10@95 C/C	47-4L-#10@125 C/C	18-4L-#10@95 C/C	3-#16EF

TESDA INNOVATION CENTER-ISAT  
 BEAM SCHEDULE  
 SCALE: NTS

NTS

 TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF TESDA. ANY REPRODUCTION OR TRANSMISSION OF THESE DOCUMENTS WITHOUT THE WRITTEN PERMISSION OF TESDA IS STRICTLY PROHIBITED. THE USER SHALL BE RESPONSIBLE FOR ANY REPRODUCTION OR TRANSMISSION OF THESE DOCUMENTS FOR USE IN THE PROJECT. IF AND ONLY IF THE USER REQUESTS THE REPRODUCTION OF THESE DOCUMENTS, THE USER SHALL BE RESPONSIBLE FOR THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.	PREPARED BY:	REVIEWED AS TO PLAN:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	 DIR. DAVID A. BUNGALON EXECUTIVE DIRECTOR, NITSD	 DIR. JULIO P. OROZCO DIRECTOR IV, AS CHIEF OF STAFF DIRECTOR-IN-CHARGE, SPU	 SEC. ISIDRO S. LAVERA, PhD, CSEE DIRECTOR GENERAL	PROPOSED TESDA INNOVATION CENTER - ISAT		 ENGR. SUNSHINE P. RODOLITA CIVIL ENGINEER, SPU	ENGR. FRANCISCO B. MARAG, JR. CIVIL ENGINEER, TESDA-ISAT	 ENGR. ROY OLIVER P. MINGARACAL HEAD, SPU-2022	BEAM SCHEDULE	S-13

CONTINUATION (LEVEL: 5.6m)

B56,B74	300	500	4-#16	4-#16	+ 4-#16 2-#16	+ 3-#20 2-#16	3-#16	+ 3-#20 3-#20	12-2L-#10@95 C/C	14-2L-#10@160 C/C	12-2L-#10@95 C/C	-
B57	300	500	4-#16	4-#16	+ 4-#16 2-#16	+ 3-#20 3-#20	3-#16	+ 3-#20 3-#20	15-2L-#10@75 C/C	31-2L-#10@75 C/C	15-2L-#10@75 C/C	2-#16EF
B58	300	500	+ 4-#16 2-#16	4-#16	4-#16	+ 3-#20 3-#20	3-#16	+ 3-#20 3-#16	12-2L-#10@95 C/C	14-2L-#10@160 C/C	12-2L-#10@95 C/C	-
B59	300	500	4-#16	4-#16	4-#16	+ 3-#20 3-#16	3-#16	+ 3-#20 3-#16	12-2L-#12@95 C/C	19-2L-#12@120 C/C	12-2L-#12@95 C/C	2-#16EF
B60	250	350	2-#16	2-#16	2-#16	3-#16	3-#16	3-#16	7-2L-#10@115 C/C	5-2L-#10@115 C/C	6-2L-#10@115 C/C	1-#12EF
B61,B70	300	500	4-#16	4-#16	+ 4-#16 2-#16	+ 3-#16 3-#16	3-#16	+ 3-#20 3-#20	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-
B62,B71	300	500	4-#16	+ 4-#16 2-#16	+ 4-#16 2-#16	+ 3-#20 3-#20	3-#16	+ 3-#20 3-#20	14-2L-#10@80 C/C	28-2L-#10@85 C/C	15-2L-#10@75 C/C	2-#16EF
B63	300	500	+ 4-#16 2-#16	4-#16	4-#16	+ 3-#20 3-#20	3-#16	+ 3-#20 3-#20	13-2L-#10@90 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-
B64	300	500	+ 4-#16 2-#16	+ 4-#16 2-#16	+ 4-#16 2-#16	+ 3-#20 3-#20	3-#16	+ 3-#20 3-#20	15-2L-#10@75 C/C	28-2L-#10@85 C/C	14-2L-#10@80 C/C	2-#16EF
B65	250	350	2-#16	2-#16	2-#16	3-#20	3-#16	3-#16	7-2L-#10@115 C/C	5-2L-#10@115 C/C	6-2L-#10@115 C/C	1-#12EF
B66	300	500	3-#16	3-#16	3-#16	+ 4-#16 4-#16	4-#16	4-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	2-#16EF
B67	300	500	4-#16	+ 4-#16 2-#16	4-#16	4-#20	4-#16	4-#20	11-2L-#10@165 C/C	9-2L-#10@165 C/C	11-2L-#10@165 C/C	-
B68	300	500	4-#16	4-#16	4-#16	+ 4-#16 3-#16	4-#16	+ 4-#16 3-#16	15-2L-#10@75 C/C	29-2L-#10@80 C/C	15-2L-#10@75 C/C	2-#16EF
B69	250	400	2-#16	3-#16	2-#16	3-#20	3-#16	3-#20	14-2L-#10@125 C/C	12-2L-#10@125 C/C	14-2L-#10@125 C/C	1-#16EF
B72	300	500	+ 4-#16 2-#16	4-#16	4-#16	+ 3-#20 3-#20	3-#16	+ 3-#20 3-#16	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-
B73	300	500	4-#16	4-#16	4-#16	+ 3-#20 3-#16	3-#16	+ 3-#20 3-#16	15-2L-#10@75 C/C	29-2L-#10@80 C/C	14-2L-#10@80 C/C	2-#16EF
B75	300	500	4-#16	4-#16	+ 4-#16 2-#16	+ 3-#20 3-#20	3-#16	+ 3-#20 3-#20	15-2L-#10@75 C/C	28-2L-#10@85 C/C	15-2L-#10@75 C/C	2-#16EF
B76	300	500	+ 4-#16 2-#16	4-#16	4-#16	+ 3-#20 3-#20	3-#16	+ 3-#20 2-#16	12-2L-#10@95 C/C	14-2L-#10@165 C/C	12-2L-#10@95 C/C	-
B77	300	500	4-#16	4-#16	4-#16	+ 3-#20 2-#16	3-#16	+ 3-#20 2-#16	12-2L-#10@95 C/C	14-2L-#10@160 C/C	12-2L-#10@95 C/C	-


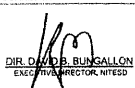

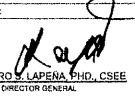

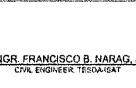
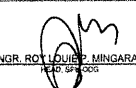
STAIR BEAM SCHEDULE (C20:Fy410) (LEVEL: 3.8m AND 7.4m)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS			SFR
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	
B1	250	350	2-#16	2-#16	3-#16	2-#16	2-#16	2-#16	11-2L-#10@75 C/C	2-2L-#10@115 C/C	11-2L-#10@75 C/C	-
B2	250	350	3-#16	2-#16	2-#16	2-#16	2-#16	2-#16	11-2L-#10@75 C/C	1-2L-#10@115 C/C	11-2L-#10@75 C/C	-

TESDA INNOVATION CENTER-ISAT  
BEAM SCHEDULE

SCALE: \_\_\_\_\_ NTS

NTS

 <p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	<p>CONCURRED BY:</p>  <p>DIR. DAVID B. BUNSGALLON EXECUTIVE DIRECTOR, NITED</p>	<p>RECOMMENDING APPROVAL:</p>  <p>DIR. JUANA S. CRUZCO DIRECTOR IN CHARGE, STAFF</p>	<p>APPROVED BY:</p>  <p>SEC. ISIDORO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL</p>	<p>PROJECT TITLE:</p> <p>PROPOSED TESDA INNOVATION CENTER - ISAT</p>	<p>PREPARED BY:</p>  <p>ENGR. SORISANE P. ROSQUITA CIVIL ENGINEER, TESDA</p>	<p>REVIEWED AS TO PLAN:</p>  <p>ENGR. FRANCISCO B. NARAGA, JR. CIVIL ENGINEER, TESDA</p>	<p>SUBMITTED BY:</p>  <p>ENGR. ROY LOUIE B. MINGARAGAL CIVIL ENGINEER, TESDA</p>	<p>SHEET CONTENTS:</p> <p>BEAM SCHEDULE</p>	<p>SHEET NO.</p> <p>S-14</p>
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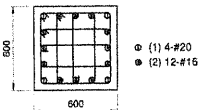


9.2M	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 450 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM														
TO	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS												
	#10 @ 50	#10 @ 50	#10 @ 150	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250												
12.2M																																	
	4-#18 + 4-#12			4-#20 + 12-#16			4-#20 + 12-#16			4-#20 + 12-#16			4-#20 + 12-#16			4-#20 + 12-#16			4-#20 + 12-#16														
5.6M	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM											
TO	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS												
	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 100	#10 @ 100	#10 @ 150	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 100	#10 @ 100	#10 @ 125	#12 @ 150	#12 @ 150	#12 @ 125	#10 @ 75	#10 @ 75	#10 @ 175	#10 @ 75	#10 @ 75	#10 @ 200	#10 @ 100	#12 @ 100	#12 @ 125	#10 @ 75	#10 @ 75	#10 @ 250
9.2M																																	
	4-#20 + 4-#20			12-#25 + 4-#20			4-#20 + 12-#16			4-#20 + 12-#16			4-#25 + 18-#20			20-#25			12-#20 + 8-#18			12-#20 + 8-#18			16-#25 + 2-#20			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM					
2.0M	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM					
TO	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS												
	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 225	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 250	#10 @ 75	#10 @ 75	#10 @ 225	#10 @ 75	#10 @ 75	#10 @ 250
5.6M																																	
	4-#20 + 12-#16			4-#20 + 12-#16			4-#20 + 12-#16			4-#20 + 12-#16			12-#20 + 8-#16			12-#20 + 8-#16			12-#20 + 8-#16			12-#20 + 8-#16			12-#20 + 8-#16			16-#25 + 2-#20			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM		
0M	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM			C30 : Fy420 , COVER = 50mm CONFINING ZONE = FULL HEIGHT			C35 : Fy420 , COVER = 50mm CONFINING ZONE = FULL HEIGHT			C40 : Fy420 , COVER = 50mm CONFINING ZONE = FULL HEIGHT			C45 : Fy420 , COVER = 50mm CONFINING ZONE = FULL HEIGHT			C30 : Fy420 , COVER = 50mm CONFINING ZONE = 600 MM					
TO	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS												
	#10 @ 75	#12 @ 75	#12 @ 150	#10 @ 75	#12 @ 75	#12 @ 125	#10 @ 75	#12 @ 75	#12 @ 125	#10 @ 75	#12 @ 75	#12 @ 150	#10 @ 75	#16 @ 75	#16 @ 200	#10 @ 75	#16 @ 75	---	#10 @ 75	#16 @ 75	---	#10 @ 75	#16 @ 75	---	#10 @ 75	#16 @ 75	---	#10 @ 75	#16 @ 75	---	#10 @ 75	#12 @ 75	#12 @ 150
2M																																	
	4-#20 + 12-#16			4-#20 + 12-#16			4-#20 + 12-#16			4-#20 + 12-#16			4-#20 + 12-#16			20-#20 + 4-#16			20-#20 + 4-#16			12-#20 + 8-#18			12-#20 + 8-#18			4-#20 + 12-#16					
COLUMN MARKED	C2, C10			C3, C4, C8, C9, C19, C20, C30, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47			C5, C6, C7, C17, C28, C29			C14, C24			C15			C23			C25, C16, C18			C26, C27			C31, C33, C34, C35			C32					

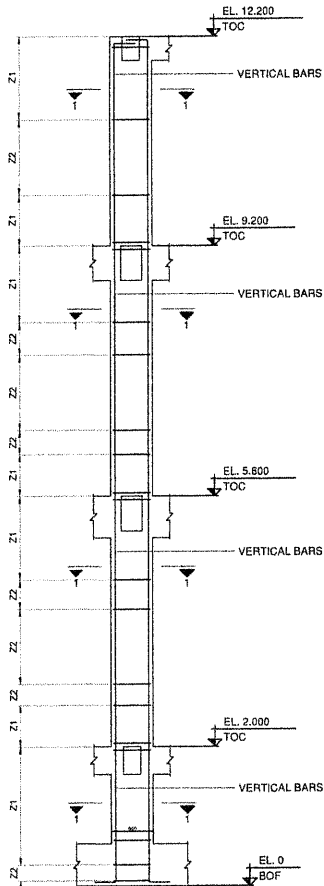
**COLUMN AND WALL SCHEDULE**  
 (SCALE 1:25)  
 NOTES:  
 1. BE - BOUNDARY ELEMENT AS PER ACI 318M - 2014. PROVIDE CONFINING REINFORCEMENT ACROSS ENTIRE HEIGHT OF WALL IN THE BOUNDARY ELEMENT  
 2. Z1 - SPECIAL CONFINING ZONE AS PER ACI 318M - 2014. Z2 - REMAINING ZONES AS PER ACI 318M - 2014

**TESDA INNOVATION CENTER-ISAT  
 COLUMN SCHEDULE**  
 SCALE: NT5

<p>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</p>	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	<p>DESIGN AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS AND THE INTELLECTUAL PROPERTY AND ALL OTHER RIGHTS OF THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY SHALL BE RESERVED BY THE AUTHORITY. NO PART OF THIS PROJECT OR ITS CONTENTS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.</p>	PREPARED BY:	REVIEWED AS TO PLAN:	SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
				PROPOSED TESDA INNOVATION CENTER - ISAT					COLUMN SCHEDULE	<b>S-15</b>
	DIR. DANNY B. BUALGALAN EXECUTIVE DIRECTOR, IITESS	DIR. JIMMY O. OROZCO CHIEF OF STAFF DIRECTOR FOR CHANGE, STU	SEC. ISIDRO S. LAPENA, PhD, CSEE DIRECTOR GENERAL	LOCATION: East Avenue 3, Region 4-ICD		ENGR. SUNSHINE P. BONOLITA CIVIL ENGINEER, ITC-ICD	ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA-ISAT	ENGR. ROY LOUIE P. MINGSARAL READ, STU-ICD		



SECTION 1-1 (C5)  
(SCALE 1:25)



TESDA INNOVATION CENTER-ISAT  
COLUMN ELEVATION

SCALE: 1:NTS

9.2M TO 12.2M	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 450 MM	C30 : Fy420 , COVER = 50mm FULL HEIGHT OF COLUMN	Z1 MAIN LINK #10 @ 50	Z1 OTHERS #10 @ 50	Z2 LINKS #10 @ 150	Z1 MAIN LINK #10 @ 50	Z1 OTHERS #10 @ 50	Z2 LINKS #10 @ 150	#16 #12	#16 #12
	4-#16 + 4-#12		4-#16 + 4-#12							
7.4M TO 9.2M	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 450 MM	C30 : Fy420 , COVER = 50mm FULL HEIGHT OF COLUMN	Z1 MAIN LINK #10 @ 50	Z1 OTHERS #10 @ 50	Z2 LINKS #10 @ 150	MAIN LINK #10 @ 150	OTHERS #10 @ 150			
	4-#16 + 4-#12		4-#16 + 4-#12							
5.6M TO 7.4M	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 450 MM	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 800 MM	Z1 MAIN LINK #10 @ 50	Z1 OTHERS #10 @ 50	Z2 LINKS #10 @ 150	Z1 MAIN LINK #10 @ 75	Z1 OTHERS #12 @ 75	Z2 LINKS #12 @ 125	#16 #12	#20 #16
	5-#12		4-#20 + 12-#25							
3.8M TO 5.6M	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 450 MM	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 800 MM	Z1 MAIN LINK #10 @ 50	Z1 OTHERS #10 @ 50	Z2 LINKS #10 @ 150	Z1 MAIN LINK #10 @ 75	Z1 OTHERS #16 @ 75	Z2 LINKS #16 @ 200	#16 #12	#20 #16
	5-#12		4-#20 + 12-#16							
2M TO 3.8M	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 450 MM	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 800 MM	Z1 MAIN LINK #10 @ 50	Z1 OTHERS #10 @ 50	Z2 LINKS #10 @ 150	Z1 MAIN LINK #10 @ 75	Z1 OTHERS #12 @ 75	Z2 LINKS #12 @ 125	#16 #12	#20 #16
	5-#12		4-#20 + 12-#16							
0M TO 2M	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 450 MM	C30 : Fy420 , COVER = 50mm CONFINING ZONE = 800 MM	Z1 MAIN LINK #10 @ 50	Z1 OTHERS #10 @ 50	Z2 LINKS #10 @ 150	Z1 MAIN LINK #10 @ 75	Z1 OTHERS #16 @ 75	Z2 LINKS #16 @ 200	#16 #12	#20 #16
	5-#12		20-#25 + 4-#16							
COLUMN MARKED			C12, C22, C1, C11			C13, C21				

TESDA INNOVATION CENTER-ISAT  
COLUMN SCHEDULE

SCALE: NTS

PLANTED COLUMN SCHEDULE (ROOF DECK)

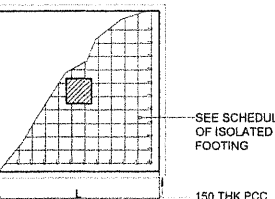
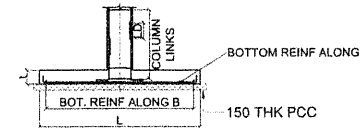
9.2M TO 12.2M	C35 : Fy420 , COVER = 50mm FULL HEIGHT OF COLUMN	C30 : Fy420 , COVER = 50mm FULL HEIGHT OF COLUMN	Z1 MAIN LINK #10 @ 100	Z1 OTHERS #10 @ 100	Z2 LINKS #10 @ 75	Z1 MAIN LINK #10 @ 75	Z1 OTHERS #10 @ 75	#20 #16
	4-#25 + 4-#20		4-#20 + 12-#16					
COLUMN MARKED	C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75		C61, C62					

FOOTING SCHEDULE (C25:Fy410)

FOOTING NUMBERS	FOOTING TYPE	FOOTING DIMENSION			FOOTING REINFORCEMENT			
		L	B	D1	BOTTOM		TOP	
					ALONG B	ALONG L	ALONG B	ALONG L
CF1	Pad	5100	3100	325	#16@200 C/C	#16@240 C/C	#16@300 C/C	#16@300 C/C
CF2	Pad	6200	3700	300	#16@160 C/C	#16@200 C/C	#16@300 C/C	#16@300 C/C
FC3	Pad	3150	3150	350	#16@140 C/C	#16@170 C/C	#16@300 C/C	#16@300 C/C
FC12	Pad	3700	3700	300	#16@300 C/C	#16@300 C/C	#16@300 C/C	#16@300 C/C
FC13	Pad	2800	2800	400	#16@190 C/C	#16@170 C/C	#16@300 C/C	#16@300 C/C
FC15	Pad	2900	2700	425	#16@180 C/C	#16@160 C/C	#16@300 C/C	#16@300 C/C
FC22	Pad	3300	3300	300	#16@300 C/C	#16@300 C/C	#16@300 C/C	#16@300 C/C
FC36	Pad	2450	2450	375	#16@180 C/C	#16@210 C/C	#16@300 C/C	#16@300 C/C

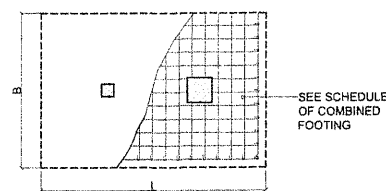
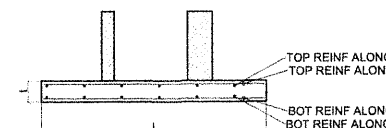
TESDA INNOVATION CENTER-ISAT  
FOOTING SCHEDULE

SCALE: NTS



TESDA INNOVATION CENTER-ISAT  
ISOLATED FOOTING DETAIL

SCALE: NTS



TESDA INNOVATION CENTER-ISAT  
COMBINED FOOTING DETAIL

SCALE: NTS



TECHNICAL EDUCATION  
AND  
SKILLS DEVELOPMENT  
AUTHORITY

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EXECUTIVE DIRECTOR, TESDA

RECOMMENDING APPROVAL:  
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DIRECTOR, ISAT  
CHIEF OF STAFF  
DIRECTOR-IN-CHARGE, SPJ

APPROVED BY:  
SEC. ISMAEL S. LAPENA, PH.D., CSEE  
DIRECTOR GENERAL

PROJECT TITLE:  
PROPOSED TESDA  
INNOVATION CENTER - ISAT

DESIGNED AND DIMENSIONED TO OTHER CONTRACT DOCUMENTS AND THE SPECIFICATIONS. DOCUMENTS OF TECHNICAL REGULATIONS AND SHALL BE REFERRED TO AND THE CONTRACT DOCUMENTS AND THE SPECIFICATIONS SHALL BE REFERRED TO IN CONNECTION TO THE WORK. CONTRACT DOCUMENTS SHALL BE REFERRED TO IN CONNECTION TO THE WORK. CONTRACT DOCUMENTS SHALL BE REFERRED TO IN CONNECTION TO THE WORK.

PREPARED BY:  
ENGR. SHARON P. ROSAQUITA  
CIVIL ENGINEER, TESDA

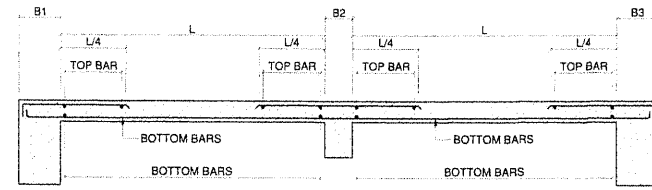
REVIEWED AS TO PLAN:  
ENGR. FRANCISCO B. NARAG, JR.  
CIVIL ENGINEER, TESDA-ISAT

SUBMITTED BY:  
ENGR. FORT LOUIS P. MINGARACAL  
HEAD, SPJ-000

SHEET CONTENTS:  
COLUMN SCHEDULE  
COLUMN SCHEDULE  
FOOTING SCHEDULE  
FOOTING DETAILS

SLAB SCHEDULE (C20 : FY275) (LEVEL : 5.6M)

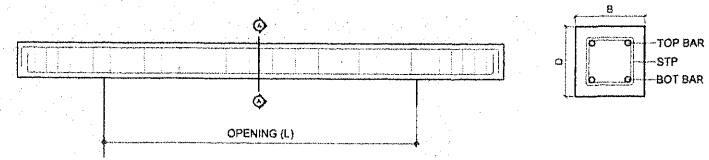
SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT			TOP REINFORCEMENT				
		ALONG SHORT SPAN		ALONG LONG SPAN	OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION
		FULL LENGTH	FULL LENGTH	CURTAILED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT	
S1, S2	125	#10 @ 195 C/C	#10 @ 240 C/C	#10 @ 240 C/C	#10 @ 195 C/C	#10 @ 195 C/C	#16 @ 155 C/C	#10 @ 195 C/C	#10 @ 185 C/C
S3, S12	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	---	#10 @ 195 C/C	#10 @ 195 C/C	#10 @ 195 C/C
S4, S9, S34, S41	125	#10 @ 155 C/C	#10 @ 140 C/C	---	#10 @ 125 C/C	#10 @ 195 C/C	#10 @ 110 C/C	#10 @ 195 C/C	#10 @ 195 C/C
S5, S7, S8, S35, S36, S39, S40	125	#10 @ 195 C/C	#10 @ 140 C/C	---	#10 @ 135 C/C	---	#10 @ 110 C/C	#10 @ 195 C/C	#10 @ 185 C/C
S6	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	---	---	#10 @ 195 C/C	#10 @ 195 C/C
S10, S11	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	---	#10 @ 195 C/C	---	#10 @ 195 C/C
S13, S14	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	#10 @ 195 C/C	#10 @ 195 C/C	#10 @ 195 C/C	#10 @ 195 C/C
S15, S17, S19, S21, S26, S28	125	#10 @ 155 C/C	#10 @ 195 C/C	---	#10 @ 125 C/C	#10 @ 195 C/C	#10 @ 120 C/C	#10 @ 195 C/C	#10 @ 195 C/C
S16, S20, S27, S28	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 135 C/C	---	#10 @ 120 C/C	---	#10 @ 195 C/C
S22, S25, S30, S33	125	#10 @ 195 C/C	#12 @ 270 C/C	#12 @ 270 C/C	#10 @ 195 C/C	---	#16 @ 115 C/C	---	#10 @ 195 C/C
S23, S24	125	#10 @ 195 C/C	#12 @ 270 C/C	#12 @ 270 C/C	#10 @ 195 C/C	#10 @ 195 C/C	#16 @ 120 C/C	#10 @ 195 C/C	#10 @ 195 C/C
S31, S32	125	#10 @ 195 C/C	#12 @ 270 C/C	#12 @ 270 C/C	#10 @ 195 C/C	---	#16 @ 120 C/C	---	#10 @ 195 C/C
S37, S38	125	#10 @ 195 C/C	#10 @ 140 C/C	---	#10 @ 135 C/C	---	#10 @ 115 C/C	#10 @ 195 C/C	#10 @ 195 C/C



TESDA INNOVATION CENTER-ISAT  
TYPICAL SLAB SECTION DETAIL  
SCALE: 1:NTS

SLAB SCHEDULE (C20 : FY275) (LEVEL : 9.2M)

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT			TOP REINFORCEMENT				
		ALONG SHORT SPAN		ALONG LONG SPAN	OVER LONG SUPPORT		OVER SHORT SUPPORT		DISTRIBUTION
		FULL LENGTH	FULL LENGTH	CURTAILED	CONTINUOUS SUPPORT	END SUPPORT	CONTINUOUS SUPPORT	END SUPPORT	
S1, S2, S3, S4, S19, S23, S32, S37, S52, S53, S54, S55	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	#10 @ 195 C/C
S5, S8, S48, S51	125	#10 @ 195 C/C	#10 @ 140 C/C	---	#10 @ 135 C/C	---	#10 @ 110 C/C	#10 @ 195 C/C	#10 @ 195 C/C
S6, S7	125	#10 @ 195 C/C	#12 @ 130 C/C	---	#10 @ 135 C/C	---	---	#10 @ 195 C/C	#10 @ 195 C/C
S9, S14, S42, S47	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	#10 @ 195 C/C	#10 @ 195 C/C	#10 @ 195 C/C	#10 @ 195 C/C
S10, S13, S43, S46	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	---	#10 @ 195 C/C	---	#10 @ 195 C/C
S11, S44	125	#10 @ 195 C/C	#10 @ 240 C/C	#10 @ 240 C/C	#10 @ 195 C/C	---	#16 @ 160 C/C	---	#10 @ 195 C/C
S12, S45	125	#10 @ 195 C/C	#10 @ 240 C/C	#10 @ 240 C/C	#10 @ 195 C/C	---	#16 @ 155 C/C	---	#10 @ 195 C/C
S15, S16, S17, S18, S38, S39, S40, S41	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	---	---	#10 @ 195 C/C	#10 @ 195 C/C
S20, S22	125	#10 @ 155 C/C	#10 @ 195 C/C	---	#10 @ 125 C/C	#10 @ 195 C/C	#10 @ 120 C/C	#10 @ 195 C/C	#10 @ 195 C/C
S24, S28	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	---	#10 @ 135 C/C	---	#10 @ 195 C/C
S25, S26, S29, S30	125	#10 @ 195 C/C	#10 @ 175 C/C	---	#10 @ 170 C/C	---	#12 @ 130 C/C	---	#10 @ 195 C/C
S27, S31	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 195 C/C	---	#10 @ 130 C/C	---	#10 @ 195 C/C
S33, S36	125	#10 @ 195 C/C	#10 @ 195 C/C	---	#10 @ 135 C/C	---	#10 @ 120 C/C	---	#10 @ 195 C/C
S34, S35	125	#10 @ 195 C/C	#10 @ 145 C/C	---	#10 @ 130 C/C	---	#10 @ 115 C/C	#10 @ 195 C/C	#10 @ 195 C/C
S49, S50	125	#10 @ 195 C/C	#10 @ 140 C/C	---	#10 @ 135 C/C	---	#10 @ 115 C/C	#10 @ 195 C/C	#10 @ 195 C/C



TESDA INNOVATION CENTER-ISAT  
TYPICAL LINTEL BEAM DETAIL  
SCALE: 1:30 MTS

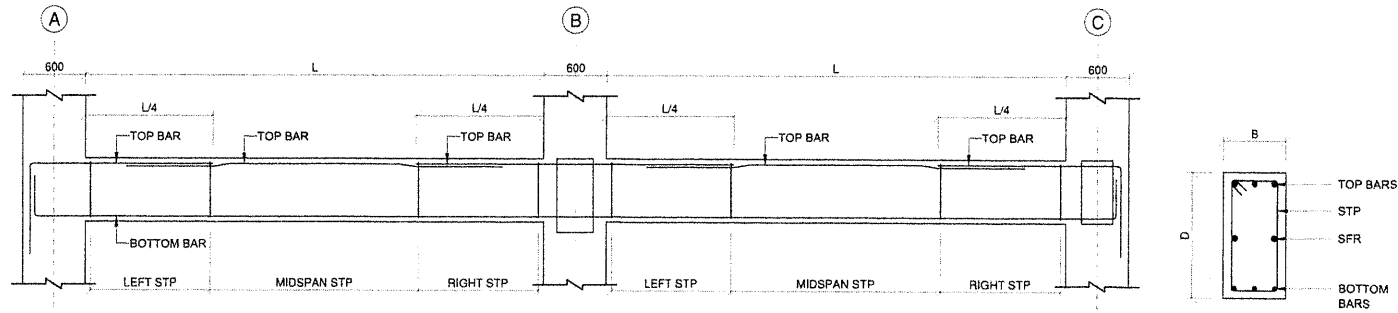
OPENING (L)	DIMENSION	REINFORCEMENT		
		TOP	BOTTOM	STIRRUPS
UP TO 1200 mm		2-10mm	2-10mm	8mm@ 180mm O.C.
UP TO 1200 mm (115mm THK WALL)		2-10mm	2-10mm	8mm@ 150mm O.C.
1300 mm TO 1650mm		2-10mm	3-10mm	8mm@ 180mm O.C.
1800 mm TO 2100mm		2-10mm	3-12mm	8mm@ 180mm O.C.
2250 mm TO 2700mm		2-10mm	2-16mm	8mm@ 200mm O.C.
MAIN CANOPY LB-1	SEE LB-1 AT BEAM SCHEDULE (2F)			

TESDA INNOVATION CENTER-ISAT  
TYPICAL LINTEL BEAM SCHEDULE  
SCALE: 1:NTS

TESDA INNOVATION CENTER-ISAT  
SLAB SCHEDULE  
SCALE: 1:NTS

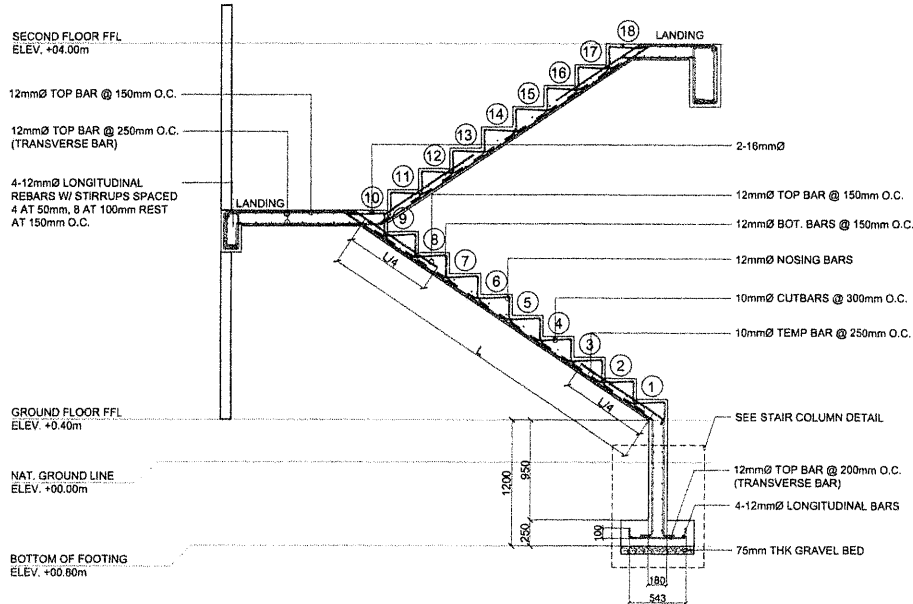


CONCURRED BY:  DIR. DAVID B. BUNCALLAN EXECUTIVE DIRECTOR/IT/ED	RECOMMENDING APPROVAL:  DIR. JULIANA O. PROCKO DIRECTOR/IAS CHIEF OF STAFF DIRECTOR-IN-CHARGE, SPU	APPROVED BY:  SEC. ISIDRO S. LAPENA/PHD, CSEE DIRECTOR GENERAL	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - ISAT	DRAWING AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF TESDA. ANY REPRODUCTION OR DISTRIBUTION OF THESE DOCUMENTS WITHOUT THE WRITTEN PERMISSION OF TESDA IS STRICTLY PROHIBITED. THIS DRAWING IS TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED OR DISTRIBUTED TO ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE. ANY REPRODUCTION OR DISTRIBUTION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF TESDA IS STRICTLY PROHIBITED.	PREPARED BY:  ENGR. SUNSHINE R. ROSCUTIA CIVIL ENGINEER/SPU-DOE	REVIEWED AS TO PLAN: ENGR. FRANCISCO B. NARAG, JR. CIVIL ENGINEER, TESDA/ISAT	SUBMITTED BY:  ENGR. ROY LOUIE P. MINGARACAL HEAD, SPU-DOE	SHEET CONTENTS: SLAB SCHEDULE SLAB SECTION DETAIL LINTEL BEAM SCHEDULE LINTEL BEAM DETAIL	SHEET NO. S-17
--	---	---	--	--	--	---	---	---	-------------------



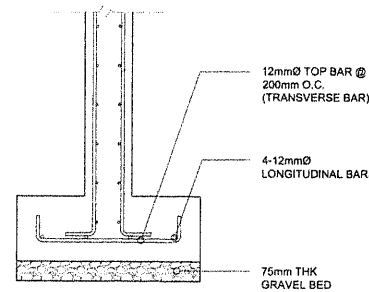
TESDA INNOVATION CENTER-ISAT  
TYPICAL BEAM DETAIL

SCALE: NTS



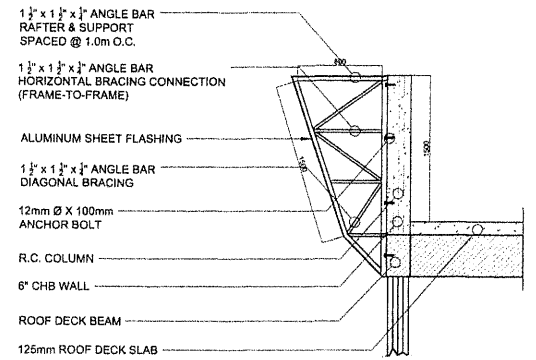
TESDA INNOVATION CENTER-ISAT  
TYPICAL STAIR DETAIL

SCALE: 1:50MTS



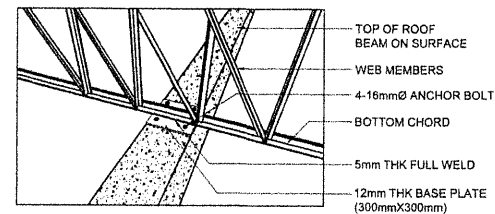
TESDA INNOVATION CENTER-ISAT  
STAIR COLUMN DETAIL

SCALE: 1:30MTS



TESDA INNOVATION CENTER-ISAT  
ALUMINUM CLADDING DETAIL-1

SCALE: NTS



TESDA INNOVATION CENTER-ISAT  
TRUSS-BEAM CONNECTION DETAIL

SCALE: NTS



TECHNICAL EDUCATION  
AND  
SKILLS DEVELOPMENT  
AUTHORITY

CONCURRED BY:

*[Signature]*  
DIR. DAVID B. BUNGALLON  
EXECUTIVE DIRECTOR, TESDA

RECOMMENDING APPROVAL:

*[Signature]*  
DIR. JIMMY D. OROZCO  
CHIEF OF STAFF  
DIRECTOR-IN-CHARGE, SRU

APPROVED BY:

*[Signature]*  
SEC. SIDORO S. LAFENA, PhD, CSEE  
DIRECTOR GENERAL

PROJECT TITLE:

PROPOSED TESDA  
INNOVATION CENTER - ISAT

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PREPARED BY:

*[Signature]*  
ENGR. SUNSHINE ROSQUITA  
CIVIL ENGINEER, SRU-CED

REVIEWED AS TO PLAN:

*[Signature]*  
ENGR. FRANCISCO B. NARAS, JR.  
CIVIL ENGINEER, TESDA-ISAT

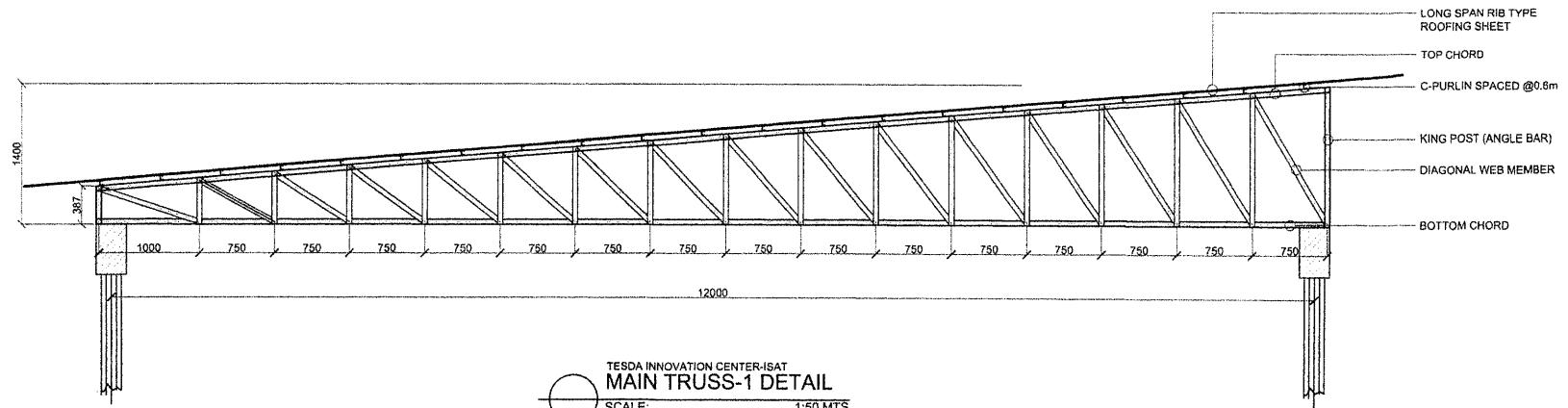
SUBMITTED BY:

*[Signature]*  
ENGR. ROY LOUIE P. MINGARACAL  
HEAD, SRU-CED

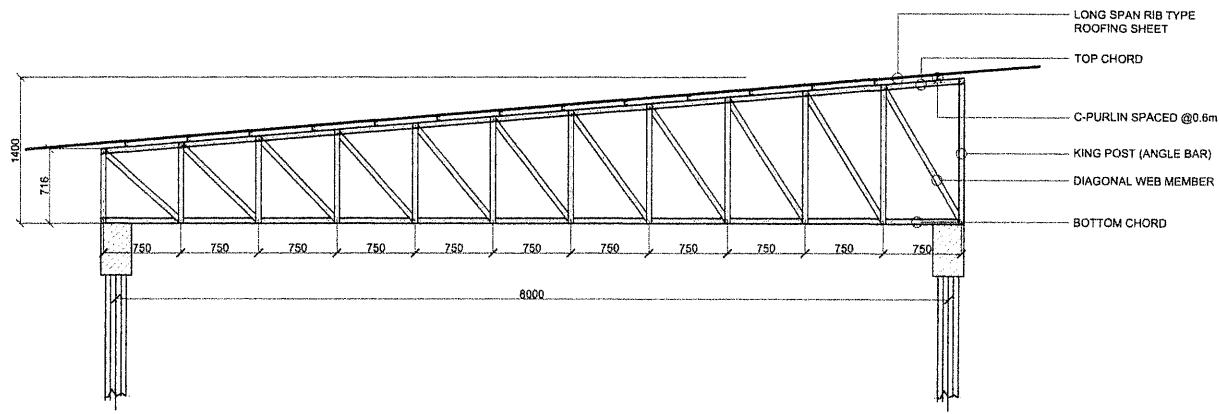
SHEET CONTENTS:  
BEAM SECTION DETAIL  
STAIR DETAILS  
TRUSS-BEAM CONNECTION  
DETAIL  
ALUMINUM CLADDING DETAIL

SHEET NO.

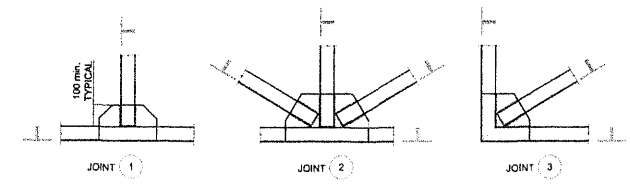
S-18



TESDA INNOVATION CENTER-ISAT  
**MAIN TRUSS-1 DETAIL**  
 SCALE: 1:50 MTS



TESDA INNOVATION CENTER-ISAT  
**MAIN TRUSS-2 DETAIL**  
 SCALE: 1:50 MTS

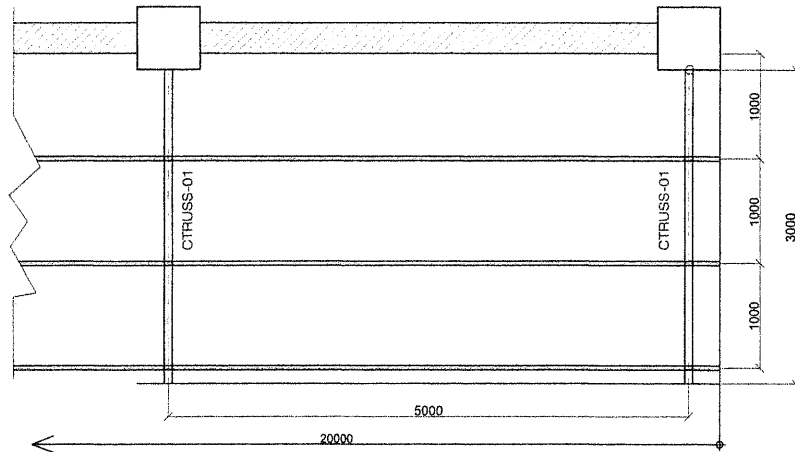


TESDA INNOVATION CENTER-ISAT  
**TYPICAL TRUSS CONNECTION DETAILS**  
 SCALE: 1:30 MTS

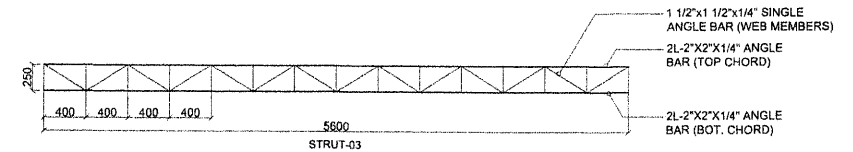
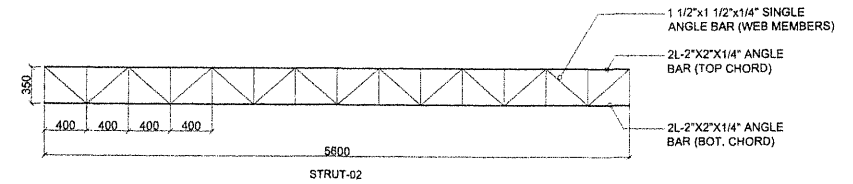
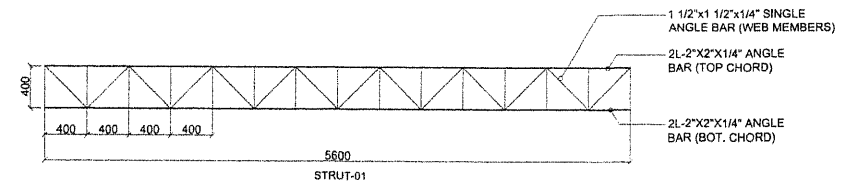
MARK	ITEM	SIZE/DESCRIPTION
1	TOP/BOTTOM CHORD	2-2"x2"x4mm THK. ANGLE BAR
2	VERTICAL CHORD	2-2"x2"x4mm THK. ANGLE BAR
3	DIAGONAL MEMBER	2-2"x2"x3mm THK. ANGLE BAR
USE: GUSSET PLATE - 12mm THK.		PURLINS: 4"x4"x1.8mm THK. C PURLIN
		ALL WELD: 1/8" (FULLY E70x)

TESDA INNOVATION CENTER-ISAT  
**TYPICAL TRUSS SCHEDULE**  
 SCALE: NTS

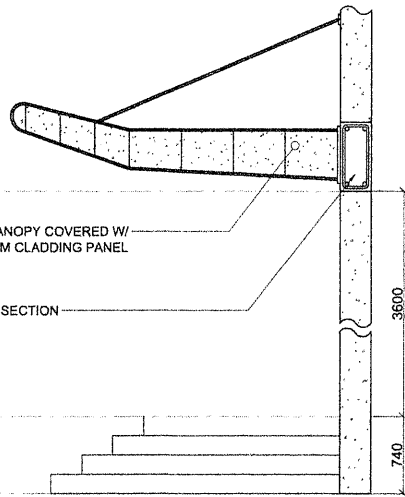
	CONCURRED BY:  DIR. DANTE B. BUNTALLON EXECUTIVE DIRECTOR, ITESD	RECOMMENDING APPROVAL:  DIR. JULIET P. OROZCO CHIEF OF STAFF DIRECTOR-IN-CHARGE, SPU	APPROVED BY:  SEC. ISIDRO S. LAPINA, PH.D., CSEE DIRECTOR GENERAL	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - ISAT	PREPARED BY:  ENGR. SUNSHINE P. ROSQUITA CIVIL ENGINEER, SPUCS	REVIEWED AS TO PLAN:  ENGR. FRANCISCO B. NARAG JR. CIVIL ENGINEER, TESDA/ISAT	SUBMITTED BY:  ENGR. ROY LOUIE P. MINGARACAL TRUSS DESIGNER	SHEET CONTENTS: TRUSS DETAILS	SHEET NO. <b>S-19</b>
	<small>DESIGNER AND SPECIFICATOR AND CHECKER'S SIGNATURES AND DATE OF REVISION. PROJECT AND SUBMITTALS OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY. WITHIN THE DESIGN AND SPECIFICATION AND MAKE AS PROVIDED AND NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY OR TO ANY OTHER PERSONS OR TO ANY OTHER PROPERTY OR TO ANY OTHER PERSONS OR TO ANY OTHER PROPERTY OR TO ANY OTHER PERSONS WITHOUT THE WRITTEN CONSENT OF TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY.</small>								



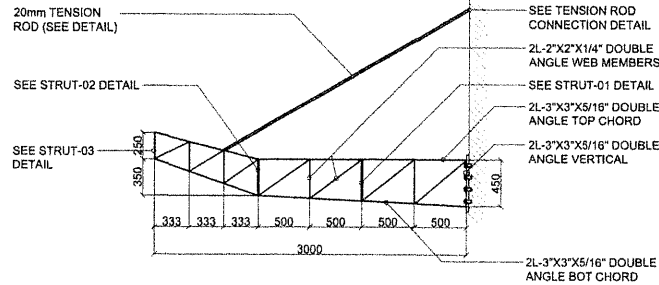
TESDA INNOVATION CENTER-ISAT  
**MAIN CANOPY FRAMING PLAN**  
 SCALE: 1:50 MTS



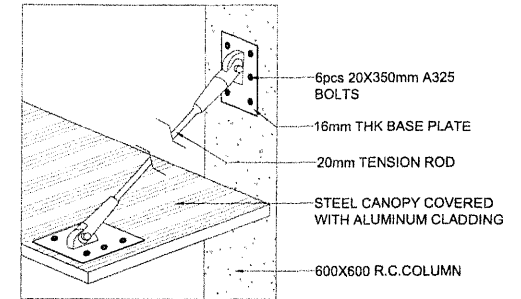
TESDA INNOVATION CENTER-ISAT  
**STRUT DETAILS**  
 SCALE: 1:50 MTS



TESDA INNOVATION CENTER-ISAT  
**MAIN CANOPY SECTION DETAIL**  
 SCALE: 1:50 MTS



TESDA INNOVATION CENTER-ISAT  
**C-TRUSS-01 DETAIL**  
 SCALE: 1:50 MTS



TESDA INNOVATION CENTER-ISAT  
**TENSION ROD CONNECTION DETAIL**  
 SCALE: NTS



CONCURRED BY:  
 DIR. DAVID B. BUNGALLON  
 EXECUTIVE DIRECTOR, TESDA

RECOMMENDING APPROVAL:  
 DIR. JULIO C. PROZCO  
 DIRECTOR, AS  
 CHIEF OF STAFF  
 DIRECTOR-IN-CHARGE, GPU

APPROVED BY:  
 SEC. ISIDORO S. LAPINA, PhD, CSEE  
 DIRECTOR GENERAL

PROJECT TITLE:  
 PROPOSED TESDA  
 INNOVATION CENTER - ISAT  
LINKARAN, Cebu City, Region V

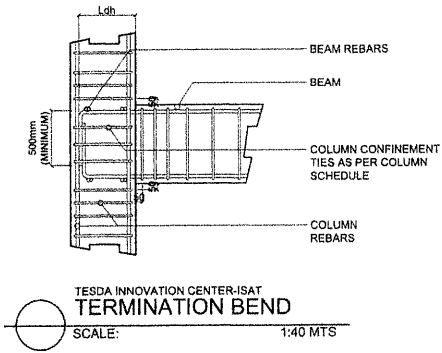
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 RETRIEVAL SYSTEM, WITHOUT THE  
 WRITTEN PERMISSION OF TESDA.

PREPARED BY:  
 ENGR. ZENITHINE P. AROQUITA  
 CIVIL ENGINEER, RPU-CDO

REVIEWED AS TO PLAN:  
 ENGR. FRANCISCO B. NARAG, JR.  
 CIVIL ENGINEER, TESDA-ISAT

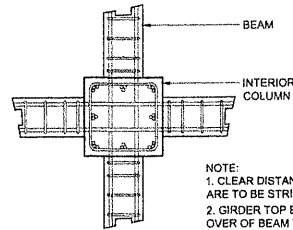
SUBMITTED BY:  
 ENGR. ROY LOUIS P. MINGARACAL  
 HEAD, GPU-CDO

SHEET CONTENTS:  
 CANOPY DETAILS  
 SHEET NO.  
**S-20**



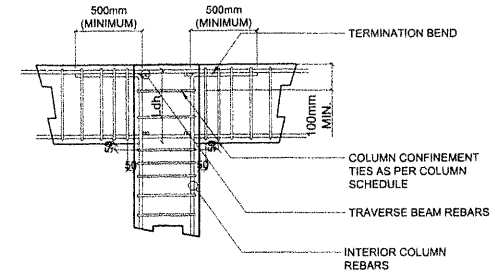
TESDA INNOVATION CENTER-ISAT  
TERMINATION BEND

SCALE: 1:40 MTS



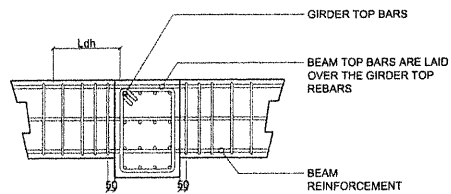
TESDA INNOVATION CENTER-ISAT  
BEAM-GIRDER COLUMN JOINT

SCALE: 1:40MTS



TESDA INNOVATION CENTER-ISAT  
TERMINATION BEND

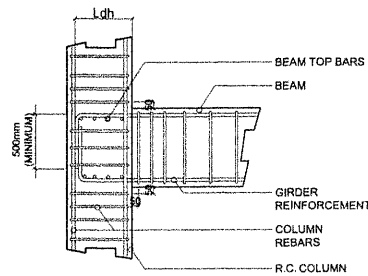
SCALE: 1:40 MTS



AT GIRDER SPAN

TESDA INNOVATION CENTER-ISAT  
BEAM & GIRDER REBAR LAYOUT

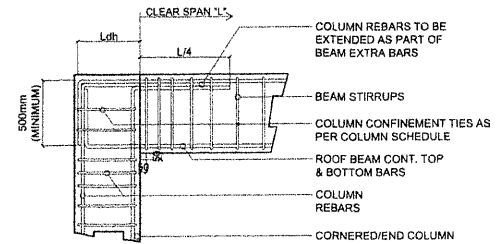
SCALE: 1:40MTS



AT COLUMN INTERSECTION

TESDA INNOVATION CENTER-ISAT  
BEAM & GIRDER REBAR LAYOUT

SCALE: 1:40MTS



TESDA INNOVATION CENTER-ISAT  
TERMINATION BEND

SCALE: 1:40MTS



CONCURRED BY:  
*[Signature]*  
DIR. DAVID B. BUNSAJON  
EXECUTIVE DIRECTOR, NTEBD

RECOMMENDING APPROVAL:  
*[Signature]*  
DIR. JUAN TOROZCO  
DIRECTOR IN CHARGE  
CHIEF OF STAFF  
DIRECTOR-IN-CHARGE, SPJ

APPROVED BY:  
*[Signature]*  
SEC. ISIDRO S. LAPENA, PH.D., CSEE  
DIRECTOR GENERAL

PROJECT TITLE:  
PROPOSED TESDA  
INNOVATION CENTER - ISAT

LOCATION: Calatagan, B. Sagay, Tamarig

REVISIONS AND AMENDATIONS AND OTHER COV-NOT REVISIONS ARE THE RESPONSIBILITY OF THE DESIGNER. THE DESIGNER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DESIGN AND SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL NECESSARY DATA AND INFORMATION TO THE CLIENT. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL NECESSARY DATA AND INFORMATION TO THE DESIGNER. THE DESIGNER SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL NECESSARY DATA AND INFORMATION TO THE CLIENT. THE CLIENT SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL NECESSARY DATA AND INFORMATION TO THE DESIGNER.

PREPARED BY:  
*[Signature]*  
ENGR. SUNSHINE J. ROSQUITA  
CIVIL ENGINEER

REVIEWED AS TO PLAN:  
ENGR. FRANCISCO B. NARAG, JR.  
CIVIL ENGINEER, TESDA-ISAT

SUBMITTED BY:  
*[Signature]*  
ENGR. ROY E. GUINOP MINGARACAL  
HEAD OFFICE

SHEET CONTENTS:  
TYPICAL BEAM-COLUMN  
CONNECTION DETAILS

SHEET NO.  
S-21

**GENERAL NOTES AND SPECIFICATIONS**

- ALL ELECTRICAL WORKS TO BE UNDERTAKEN HERE IN SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST APPROVED EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS, THE EXISTING ORDINANCES, RULES AND REGULATIONS OF CITY ENGINEER'S OFFICE, THE BUILDING ADMINISTRATION OFFICE AND INDUSTRIAL SAFETY AS WELL AS THE REQUIREMENTS OF THE UTILITY COMPANY.
- ALL MATERIALS AND REQUIREMENTS TO BE USED HEREIN SHALL BE NEW AND OF THE APPROVED TYPE FOR ITS LOCATION AND PURPOSE.
- NO OF BRANCH CIRCUIT WIRING IN LIGHTING AND POWER SHALL HAVE A LOAD MORE THAN BOX OF ITS RATING.
- LIGHT CONTROL SWITCHES SHALL BE RATED 16 AMPERES, 230 Vac.
- UNLESS OTHERWISE SPECIFIED PULLBOXES OR JUNCTION BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY. ALTHOUGH SUCH BOXES ARE NOT INDICATED ON PLANS.
- FOR EACH SPARE CIRCUIT IN PANELBOARD, PROVIDE AN EMPTY CONDUIT 20mm(3/4") DIA. TERMINATING TO A COVERED SQUARED BOX.
- ALL EQUIPMENT AND/NON CURRENT CARRYING METAL FRAME, SHALL BE PROVIDED WITH ADEQUATE AND EFFECTIVE GROUNDING SYSTEM.
- STANDARD TYPE OF ACCESSORIES, SPlicing DEVICES, TERMINATION AND OTHER APPURTENANCES SHALL BE USED FOR THE ENTIRE ELECTRICAL INSTALLATION.
- POWER SUPPLY SHALL BE 400 VOLTS, 3ø, 4 WIRE PLUS GROUND, 60 HERTZ.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED AND REGISTERED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN
- UNLESS OTHERWISE INDICATED, MOUNTING HEIGHTS SHALL BE AS FOLLOWS:  
 A. PANELBOARDS.....1.60m CENTER OF ENCLOSURE  
 B. CONVENIENCE OUTLET.....0.3m CENTER OF THE BOX  
 C. SWITCH OUTLET.....1.30m CENTER OF THE BOX  
 D. CANY OUTLET.....0.30m CENTER OF THE BOX  
 E. GFCI COUNTERTOP.....0.30m FROM TOP OF LAVATORY  
 F. COUNTERTOP OUTLET.....0.30m FROM TOP OF KITCHEN SINK  
 G. TEL/DATA OUTLET.....0.30m CENTER OF THE BOX
- THE JOB SHALL BE EXECUTED IN THE MOST THROUGH PROMPT AND WORKMAN LIKE MANNER, EMPLOYING STANDARD TOOLS, EQUIPMENT, METHODS AND GOOD ENGINEERING PRACTICES. THE JOB SHALL BE DONE COMPLETE IN ALL ASPECTS AS REQUIRED IN PLANS AND SPECIFICATIONS AND READY FOR OPERATION.
- ADDITIONAL MATERIALS SPECIFICATIONS:  
 A. CONDUIT....."PANASONIC", "MC GILL", "SMARTUBE" OR APPROVED EQUAL.  
 B. WIRES AND CABELS....."PHELPS DODGE", "PHILFLEX", "DURAFLEX OR APPROVED EQUAL.  
 C. CIRCUIT BREAKER BOARD....."ABB", "GE", "SCHNEIDER ELECTRIC" BOLT-ON TYPE OR APPROVED EQUAL.  
 D. WIRING DEVICES....."PANASONIC", "LEVITON", "SCHNEIDER ELECTRIC" OR APPROVED EQUAL
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKER. EACH PANEL WILL BE APPROVED WITH A TYPED CIRCUIT DIRECTORY.
- WIRES SHALL BE COLOR CODED:  
 THREE PHASE  
 LINE 1.....RED  
 LINE 2.....YELLOW  
 LINE 3.....BLUE  
 NEUTRAL.....WHITE  
 GROUND.....GREEN
- NO REVISION IN DESIGN SHALL BE DONE WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF THE DESIGNER AND THE OWNER. ANY SUCH REVISION DONE WITHOUT THE APPROVAL SHALL CAUSE RESPONSIBILITY OF THE DESIGNER TO CEASE A WHOLE.
- ALL WEATHER-EXPOSED INSTALLATIONS SHALL USE WEATHERPROOF TYPE MATERIALS, ESPECIALLY WEATHERPROOF CONVENIENCE OUTLET, GAST-BOXES, JUNCTION BOXES SUBMIT SAMPLE FOR APPROVAL.

**ABBREVIATIONS**

CO	CONVENIENCE OUTLET
MM	MILLIMETER
EF	EXHAUST FAN
FCU	FAN COIL UNIT
ACCU	AIR-COOLED CONDENSING UNIT
ECB	ENCLOSED CIRCUIT BREAKER
MCB	MINIATURE CIRCUIT BREAKER
TX	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH
A, AMP	AMPERE
AF	AMPERE FRAME
AT	AMPERE TRIP
IMC	INTERMEDIATE METALLIC CONDUIT
J	JUNCTION BOX
KAC	KILOAMPERE INTERRUPTING CAPACITY
KVA	KILOVOLT-AMPERE
KWHR	KILOWATT-HOUR
KW	KILOWATT
KV	KILOVOLT
LA	LIGHTNING ARRESTER
LV	LOW VOLTAGE
3P	THREE POLE
UPVC	UNPLASTICIZED POLYVINYL CHLORIDE
V	VOLT
CB	CIRCUIT BREAKER
CCT	CIRCUIT
C.L.	CONNECTED LOAD
ø	DIAMETER
DIST	DISTRIBUTION
DF	DEMAND FACTOR
DL	DEMAND LOAD
DP	DOUBLE POLE
ENCL	ENCLOSURE, ENCLOSED
G, GND	GROUND
HZ	HERTZ
M	METER
MTD	MOUNTED
MTG	MOUNTING
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MSB	MAIN SWITCH BOARD
NO./ #	NUMBER
P	POLE
PH	PHASE
PVC	POLYVINYL CHLORIDE
IMC	INTERMEDIATE METALLIC CONDUIT
THWN	MOISTURE & HEAT RESISTANT THERMOPLASTIC TYPICAL
TW	MOISTURE RESISTANT THERMOPLASTIC
LVSG	LOW VOLTAGE SWITCH GEAR
SP	SYNCHRONIZING PANEL
EE	ELECTRICAL EQUIPMENT
PP	POWER PANEL
LP	LIGHTNING PANEL
DP	DISTRIBUTION PANEL
DS	DISCONNECT SWITCH
RD	RISER DOWN
RU	RISER UP
PFC	POWER FACTOR CONTROLLER
PFI	POWER FACTOR INDICATOR
AHU	AIR HANDLING UNIT

**LIGHTING LEGENDS AND SYMBOLS**

○	RECESSED MOUNTED, 13W LED DOWNLIGHT
□	WALL MOUNTED, 13W LED DOWNLIGHT
—	SURFACE MOUNTED, 1200mm, 20W LED FLUORESCENT LIGHT
□	2x20W, 300mmx1200mm, CEILING RECESSED FLUORESCENT LIGHTING FIXTURE
□	WALL MOUNTED, ELEVATOR SHAFT LIGHTING FIXTURE
◆	SUSPENDED 200W HIGH BAY LUMINAIRE
□	8W EXIT LIGHT WITH 2HRS BATTERY PACK
—	CONCEALED LIGHTING
E	INDICATION FOR LUMINAIRES WITH 2HRS BATTERY PACK
• S	1 GANG, SINGLE POLESINGLE THROW SWITCH, 15A, 230V
• 2S	2 GANG, SINGLE POLESINGLE THROW SWITCH, 15A, 230V
• 3S	3 GANG, SINGLE POLESINGLE THROW SWITCH, 15A, 230V
○RU/RD	RISER UP/DOWN
○	JUNCTION BOX (CONCEALED LIGHTING PROVISION/TAPPING POINT)

**POWER LEGENDS AND SYMBOLS**

○	DUPLEX CONVENIENCE OUTLET
□	FLOOR MOUNTED CONVENIENCE OUTLET
○	SIMPLEX CONVENIENCE OUTLET
□	HAND DRYER PROVISION
○	SPECIAL PURPOSE OUTLET
○	JUNCTION BOX
□	DISCONNECT SWITCH
□	ENCLOSED CIRCUIT BREAKER
□	DISTRIBUTION PANEL
□	PANELBOARD
□	GROUND BAR
□	GROUND ROD WITH TESTING PIT
○	GROUND ROD
○RU/RD	RISER UP/DOWN
←→	EARLY STREAMER EMISSION LIGHTNING PROTECTION

**AUXILIARY SYSTEMS LEGEND AND SYMBOL**

□	DOME-TYPE, IP-BASED CCTV CAMERA
□	IP BASED CAMERA, FIXED TYPE, WEATHER PROOF
□	VOICE/DATA OUTLET
□	FLOOR MOUNTED VOICE/DATA OUTLET
□	INPUT MODULE
□	GROUND BAR
○	SMOKE DETECTOR
○	HEAT DETECTOR
□	STROBE LIGHT WITH SOUNDER
□	MANUAL PULL STATION
□	FIREMAN'S TELEPHONE JACK
□	FIRE ALARM CONTROL PANEL
○RU/RD	RISER UP/DOWN



TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY

CONCURRED BY:

DIR. DAVID E. BUNALLON  
EXECUTIVE DIRECTOR, NITESD

RECOMMENDING APPROVAL:

DIR. JULIO D. ANOZCO  
DIRECTOR FOR AS  
CITY ENGINEER AND  
DIRECTOR-IN-CHARGE, SPU

APPROVED BY:

SEC. ISIDORO S. LAPERA, PH.D., CSEE  
DIRECTOR GENERAL  
TECHNICAL EDUCATION AND SKILLS  
DEVELOPMENT AUTHORITY

PROJECT TITLE:

PROPOSED TESDA INNOVATION CENTER - ISAT

LOCATION: Annex School of Arts and Trade (SESA-ISA) Strategic, Nueva City

DESIGNED AND EXECUTED BY:  
ENGR. JOSEPH ADRIAN C. SANTOS  
ELECTRICAL ENGINEER, SPU-ODD

PREPARED BY:

ENGR. JOSEPH ADRIAN C. SANTOS  
ELECTRICAL ENGINEER, SPU-ODD

REVIEWED AND SUBMITTED BY:

ENGR. RY LOUIE P. MINGARACAL  
ELECTRICAL ENGINEER

SHEET CONTENTS:  
GENERAL NOTES  
LEGENDS AND  
SYMBOLS

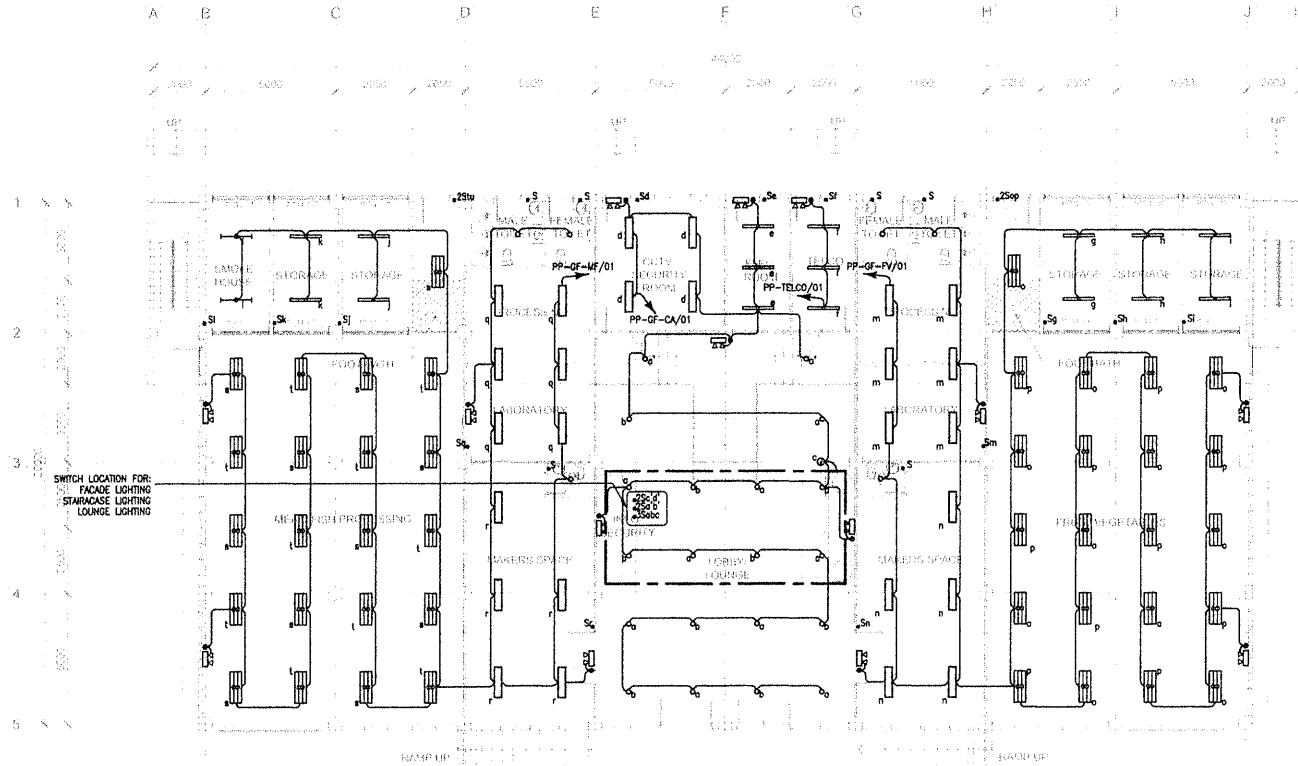
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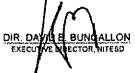


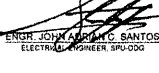



LEGENDS AND SYMBOLS	
○	RECESSED MOUNTED, 13W LED DOWNLIGHT
●	SURFACE MOUNTED, 13W LED DOWNLIGHT
⊥	WALL MOUNTED, 13W LED DOWNLIGHT
— —	SURFACE MOUNTED, 1200mm, 20W WEATHERPROOF LED FLUORESCENT LIGHT
— —	SURFACE MOUNTED, 1200mm, 20W LED FLUORESCENT LIGHT
— —	2x20W, 300mmx1200mm, CEILING RECESSED FLUORESCENT LIGHTING FIXTURE
— —	2x20W, 300mmx1200mm, DUST TIGHT FLUORESCENT LIGHTING FIXTURE
⊥	8W EXIT LIGHT WITH 2HRS BATTERY PACK
⊥	TWIN-HEAD EMERGENCY LIGHTING WITH 2HRS BATTERY PACK
S	1 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
2S	2 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
3S	3 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
RU/RD	RISER UP/DOWN
⊙	JUNCTION BOX (CONCEALED LIGHTING PROVISION/TAPPING POINT)

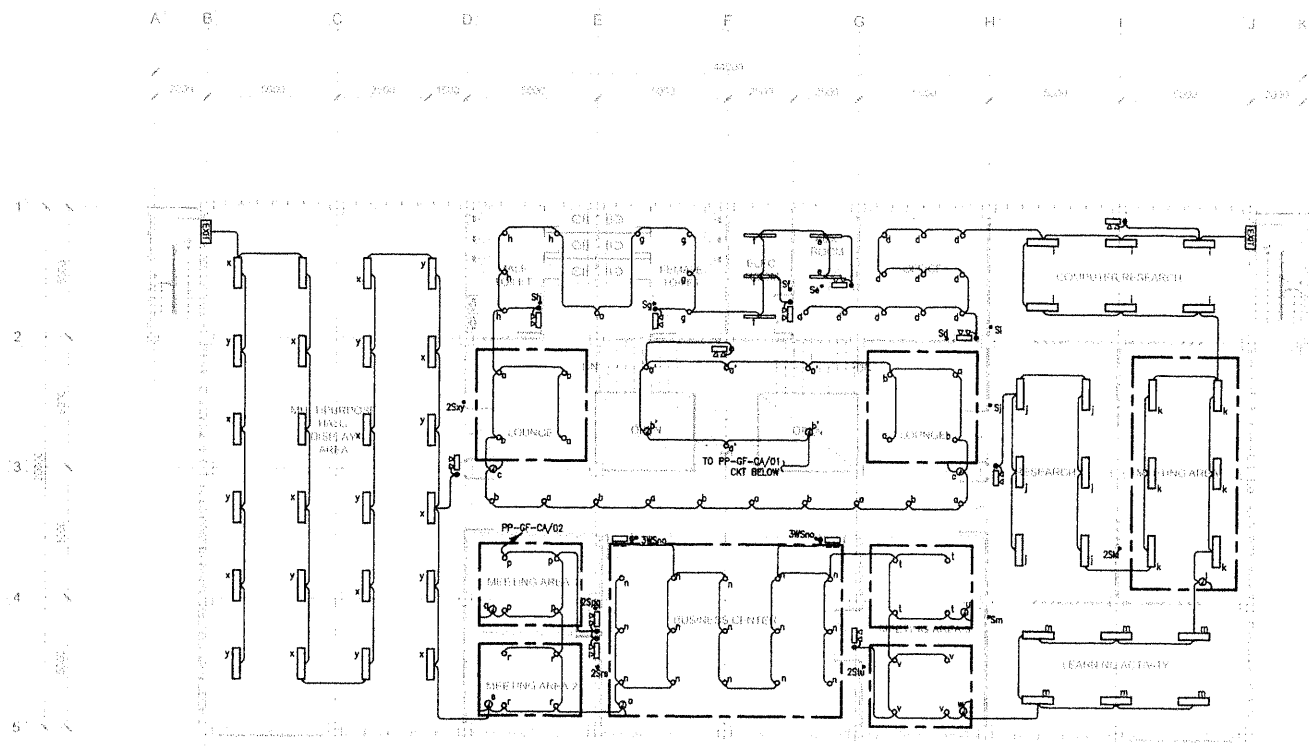


TESDA INNOVATION CENTER - ISAT  
GROUND FLOOR LIGHTING LAYOUT


SCALE: 1:200 mm

 <b>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</b>	<b>CONCURRED BY:</b>  DIR. DAVILA B. BUNGALON EXECUTIVE DIRECTOR, NIFSD	<b>RECOMMENDING APPROVAL:</b>  DIR. JULIO C. ROZCO CHIEF OF STAFF, SDO DIRECTOR-IN-CHARGE, SPJ	<b>APPROVED BY:</b>  SEC. ISIDORO S. LAPENA, PH.D., CBEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	<b>PROJECT TITLE:</b> PROPOSED TESDA INNOVATION CENTER - ISAT <small>(LOCATION: Nangka Station of Abo and Tondo (TESDA ISAT), Calatagan, Masaka City)</small>	<b>DRAWING AND SPECIFICATIONS AND OTHER CONFORM DOCUMENTS ARE THE INTELLECTUAL PROPERTY OF THE DEVELOPMENT AUTHORITY AND SHALL BE DEVELOPED BY THE AUTHORITY. ANY REVISIONS TO THE DRAWING SHALL BE REQUESTED FOR AND APPROVED BY THE AUTHORITY. ANY REVISIONS TO THE DRAWING SHALL BE REQUESTED FOR AND APPROVED BY THE AUTHORITY. ANY REVISIONS TO THE DRAWING SHALL BE REQUESTED FOR AND APPROVED BY THE AUTHORITY.</b>	<b>PREPARED BY:</b>  ENGR. JOHN A. SANTOS ELECTRICAL ENGINEER, SPU-OGG	<b>REVIEWED AND SUBMITTED BY:</b>  ENGR. ROY LOUIE P. MINGARACAL HEAD, SPU-OGG	<b>SHEET CONTENTS:</b> GROUND FLOOR LIGHTING LAYOUT	<b>SHEET NO.</b> E1-01
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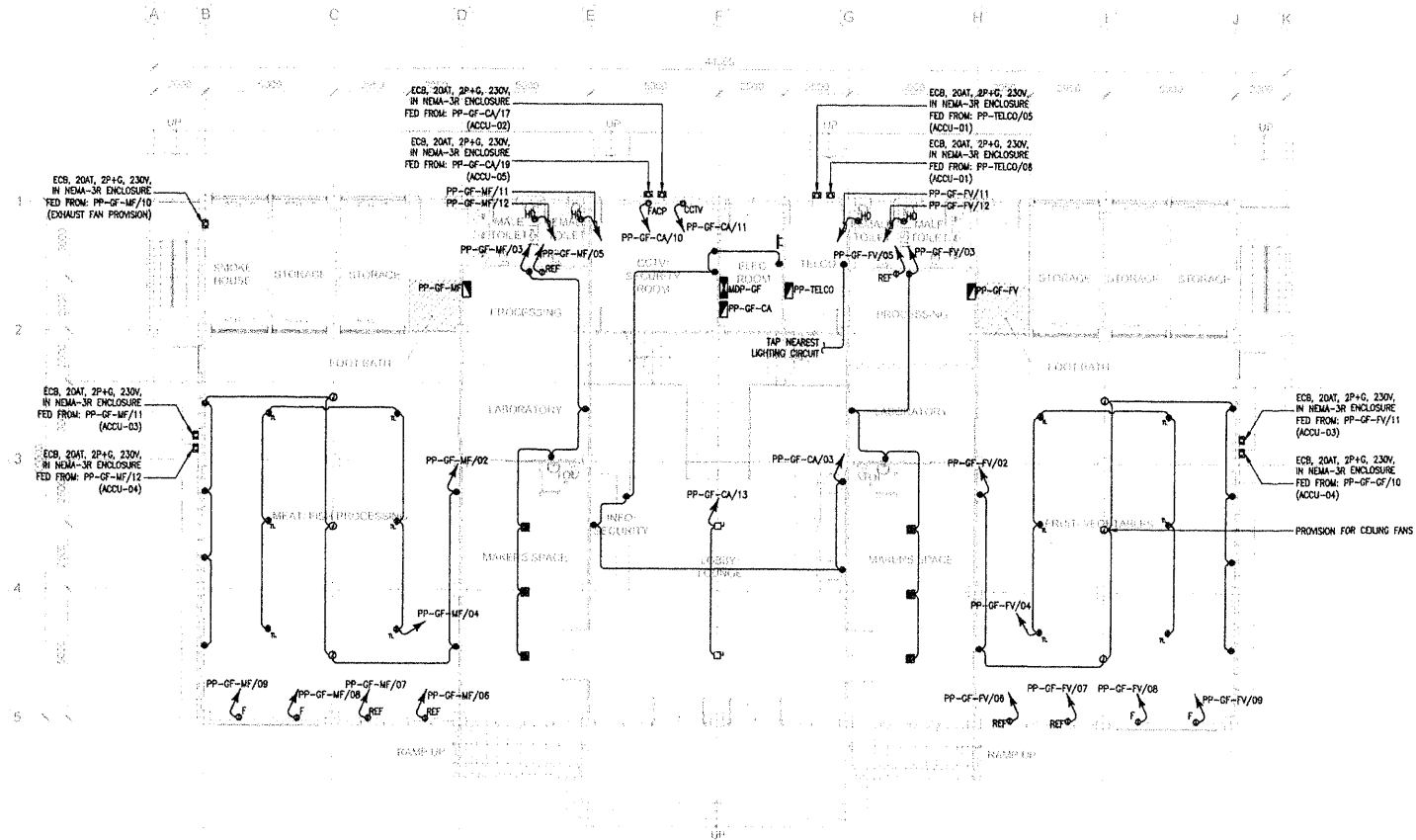
LEGENDS AND SYMBOLS	
○	RECESSED MOUNTED, 13W LED DOWNLIGHT
●	SURFACE MOUNTED, 13W LED DOWNLIGHT
⌘	WALL MOUNTED, 13W LED DOWNLIGHT
— —	SURFACE MOUNTED, 1200mm, 20W WEATHERPROOF LED FLUORESCENT LIGHT
— —	SURFACE MOUNTED, 1200mm, 20W LED FLUORESCENT LIGHT
— —	2x20w, 300mmx1200mm, CEILING RECESSED FLUORESCENT LIGHTING FIXTURE
— —	2x20w, 300mmx1200mm, DUST TIGHT FLUORESCENT LIGHTING FIXTURE
EXIT	8W EXIT LIGHT WITH 2HRS BATTERY PACK
⌘	TWIN-HEAD EMERGENCY LIGHTING WITH 2HRS BATTERY PACK
S	1 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
2S	2 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
3S	3 GANG, SINGLE POLE SINGLE THROW SWITCH, 15A, 230V
RU/RD	RISER UP/DOWN
⊙	JUNCTION BOX (CONCEALED LIGHTING PROVISION/TAPPING POINT)



TESDA INNOVATION CENTER - ISAT  
**SECOND FLOOR LIGHTING LAYOUT**  
 SCALE: ⊙ 1: 200 mm

 <b>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</b>	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	DRAWING AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS ARE THE PROPERTY OF THE PROJECT AND SHOULD BE KEPT IN THE PROJECT OFFICE. ANY REVISIONS OR CHANGES SHOULD BE MADE IN WRITING AND APPROVED BY THE PROJECT MANAGER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF MATERIALS WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE PROJECT MANAGER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF MATERIALS WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE PROJECT MANAGER.	PREPARED BY:	REVIEWED AND SUBMITTED BY:	SHEET CONTENTS:	SHEET NO.
	DIR. DAVID B. BUNGA LON <small>EXECUTIVE DIRECTOR, RTEDD</small>	DIR. JULIO C. PROZCO <small>DIRECTOR AS CHIEF OF STAFF, CDD DIRECTOR IN CHARGE, SPU</small>	SEC. ISOROS S. LAPENA, PH.D., CSEE <small>DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	PROPOSED TESDA INNOVATION CENTER - ISAT		ENGR. JOHN MARIANO C. SANTOS <small>ELECTRICAL ENGINEER, SPU-CDD</small>	ENGR. ROY LOUIE P. MINGARACAL <small>REGISTERED ELECTRICAL ENGINEER</small>	SECOND FLOOR LIGHTING LAYOUT	E1-02

LEGENDS AND SYMBOLS	
⊙	DUPLEX CONVENIENCE OUTLET WHERE XX IS:
TL	TWISTLOCK OUTLET
WP	WEATHERPROOF OUTLET
⊠	FLOOR MOUNTED CONVENIENCE OUTLET
⊙ HD	SIMPLEX CONVENIENCE OUTLET WHERE XX IS:
F	FREEZER OUTLET
REF	REFRIGERATOR OUTLET
HD	HAND DRYER OUTLET
⊙	SPECIAL PURPOSE OUTLET
⊙	JUNCTION BOX
⊠	DISCONNECT SWITCH
⊠	ENCLOSED CIRCUIT BREAKER
⊠	DISTRIBUTION PANEL
⊠	PANELBOARD
—	GROUND BAR
⊠	GROUND ROD WITH TESTING PIT
⊙	GROUND ROD
RU/RD	RISER UP/DOWN
⊠	EARLY STREAMER EMISSION LIGHTNING PROTECTION

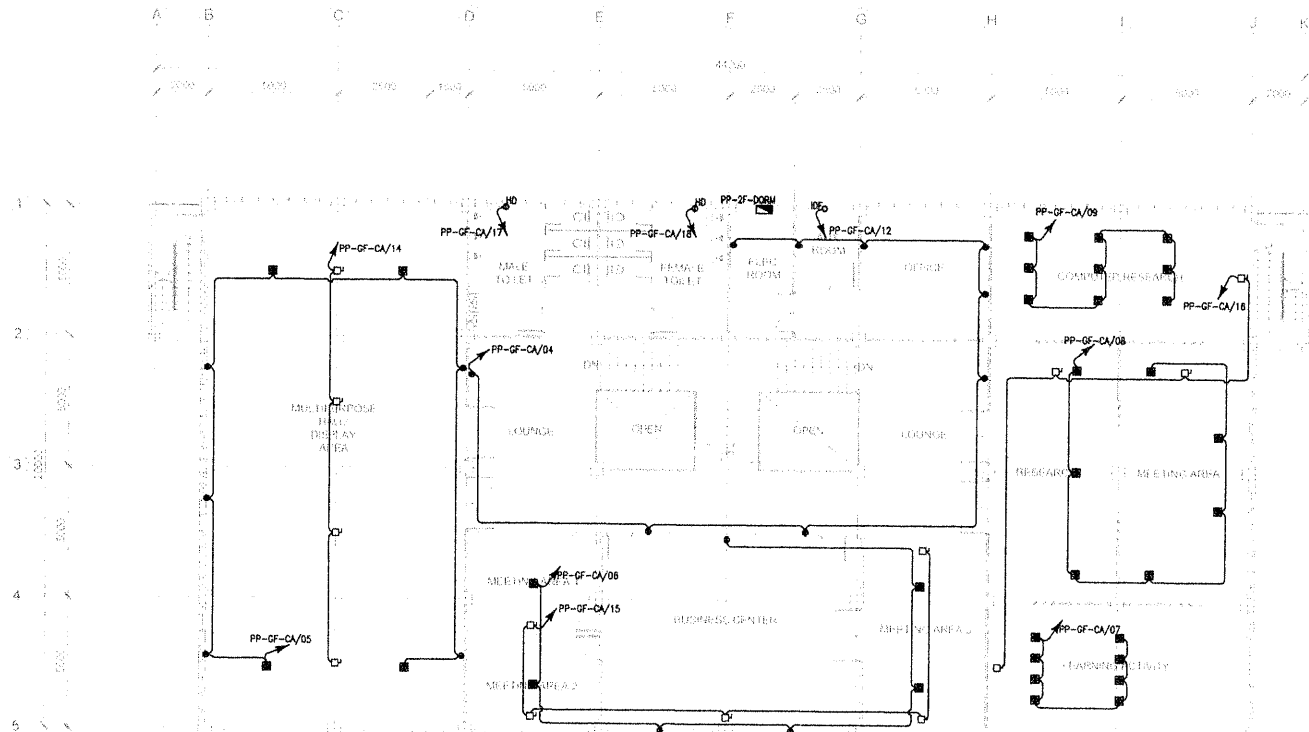


TESDA INNOVATION CENTER - ISAT  
**GROUND FLOOR POWER LAYOUT**  
 SCALE: 1: 200 mm

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LOCATION: 4th and 5th Floor of 4th and 5th Floor (TESDA-ITC), Cebu, Philippines

LEGENDS AND SYMBOLS	
⊙	DUPLEX CONVENIENCE OUTLET WHERE XX IS: TL - TWISTLOCK OUTLET WP - WEATHERPROOF OUTLET
⊠	FLOOR MOUNTED CONVENIENCE OUTLET
⊙ HD	SIMPLEX CONVENIENCE OUTLET WHERE XX IS: F - FREEZER OUTLET REF - REFRIGERATOR OUTLET HD - HAND DRYER OUTLET
⊙	SPECIAL PURPOSE OUTLET
⊙	JUNCTION BOX
⊠	DISCONNECT SWITCH
⊠	ENCLOSED CIRCUIT BREAKER
⊠	DISTRIBUTION PANEL
⊠	PANELBOARD
⊠	GROUND BAR
⊠	GROUND ROD WITH TESTING PIT
⊠	GROUND ROD
RU/RD	RISER UP/DOWN
⚡	EARLY STREAMER EMISSION LIGHTNING PROTECTION

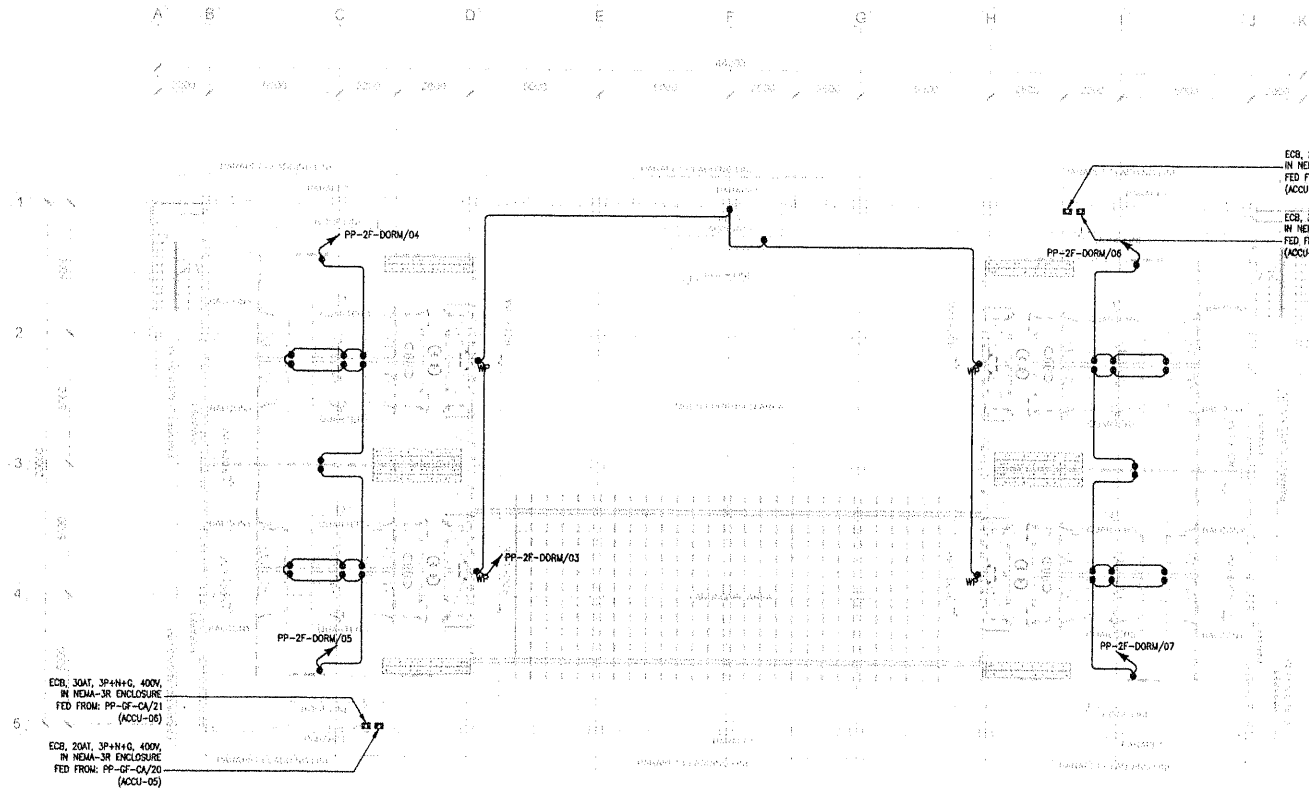


TESDA INNOVATION CENTER - ISAT  
**SECOND FLOOR POWER LAYOUT**  
 SCALE: 1:200 mm

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	 DIR. DANILLO B. BUNCALLON EXECUTIVE DIRECTOR, NITEDS	 DIR. JULIET D. OROZCO DIRECTOR OF ASST. CHIEF OF STAFF, DOD DIRECTOR IN CHARGE, DPU	 SEC. ISIDRO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROPOSED TESDA INNOVATION CENTER - ISAT		 ENGR. JOHN ADRIAN C. SANTOS ELECTRICAL ENGINEER, SP/000	 ENGR. ROY LOUIE P. MINGARACAL HEAD, BLDGGS	SECOND FLOOR POWER LAYOUT	<b>E2-02</b>

LOCATION: Malabon Branch of ABE and Trades Center (ISAT), Calabarzon, Malabon City

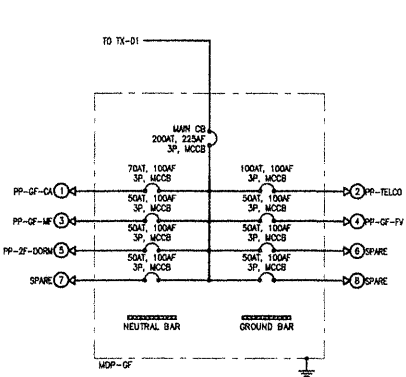
LEGENDS AND SYMBOLS	
⊙	DUPLEX CONVENIENCE OUTLET WHERE XX IS: TL - TWISTLOCK OUTLET WP - WEATHERPROOF OUTLET
⊙	FLOOR MOUNTED CONVENIENCE OUTLET
⊙ HD	SIMPLEX CONVENIENCE OUTLET WHERE XX IS: F - FREEZER OUTLET REF - REFRIGERATOR OUTLET HD - HAND DRYER OUTLET
⊙	SPECIAL PURPOSE OUTLET
⊙	JUNCTION BOX
⊔	DISCONNECT SWITCH
⊔	ENCLOSED CIRCUIT BREAKER
⊔	DISTRIBUTION PANEL
⊔	PANELBOARD
⊔	GROUND BAR
⊔	GROUND ROD WITH TESTING PIT
⊔	GROUND ROD
RU/RD	RISE UP/DOWN
⊔	EARLY STREAMER EMISSION LIGHTNING PROTECTION



TESDA INNOVATION CENTER - ISAT  
THIRD FLOOR POWER LAYOUT

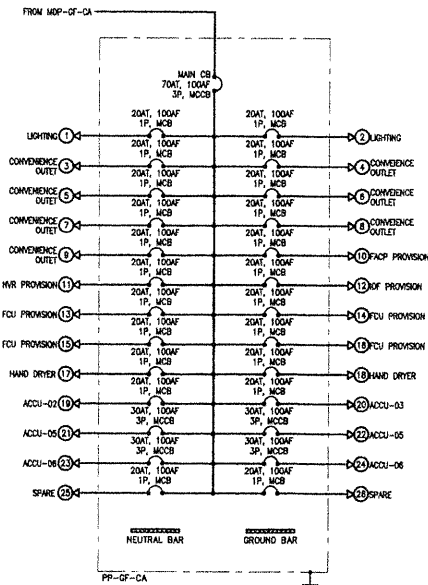
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	CONCURRED BY:  DIR. DAVID B. BUNGALLON EXECUTIVE DIRECTOR, TESDA	RECOMMENDING APPROVAL:  DIR. JULIUS O. OROZCO CHIEF OF STAFF, DDO DIRECTOR-IN-CHARGE, SPU	APPROVED BY:  SEC. ISIDRO S. LAPERA, PHD., CSEE DIRECTOR GENERAL, TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROJECT TITLE: PROPOSED TESDA INNOVATION CENTER - ISAT	PREPARED BY:  ENGR. JOHN ARMAR P. SANTOS ELECTRICAL ENGINEER, SPU/DOO	REVIEWED AND SUBMITTED BY:  ENGR. ROY LOUIE P. MINGARACAL ELECTRICAL ENGINEER, SPU/DOO	SHEET CONTENTS: THIRD FLOOR POWER LAYOUT	SHEET NO. E2-03
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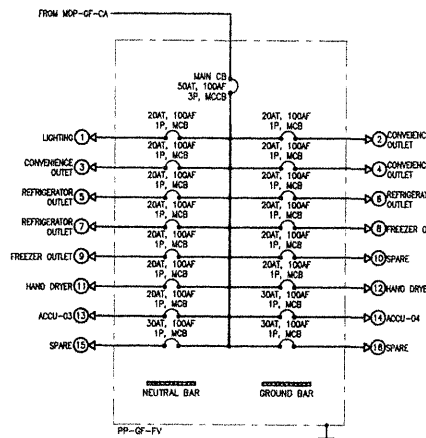
MDP-PANELBOARD DIAGRAM

SCALE: NTS



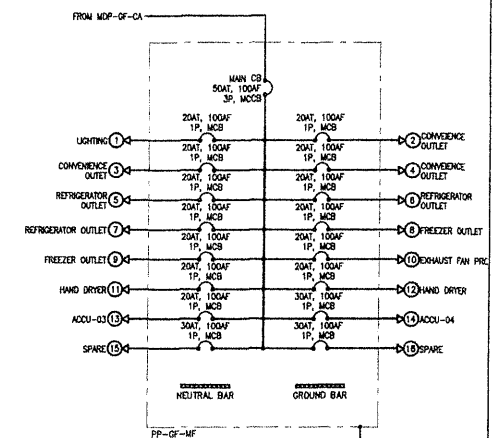
PP-GF-CA PANELBOARD DIAGRAM

SCALE: NTS



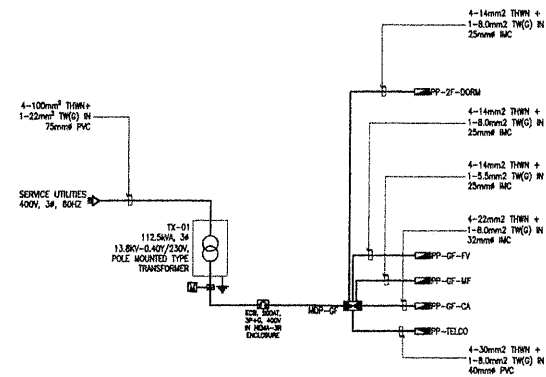
PP-GF-FV PANELBOARD DIAGRAM

SCALE: NTS



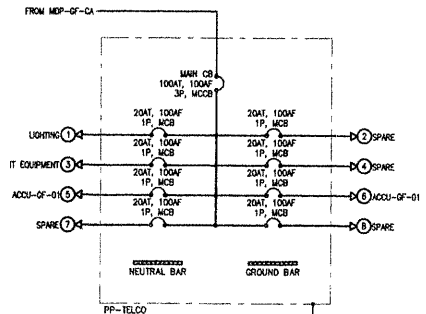
PP-GF-MF PANELBOARD DIAGRAM

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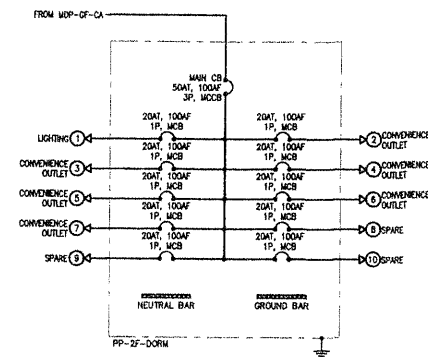
POWER SINGLE LINE DIAGRAM

SCALE: NTS



PP-TELCO PANELBOARD DIAGRAM

SCALE: NTS



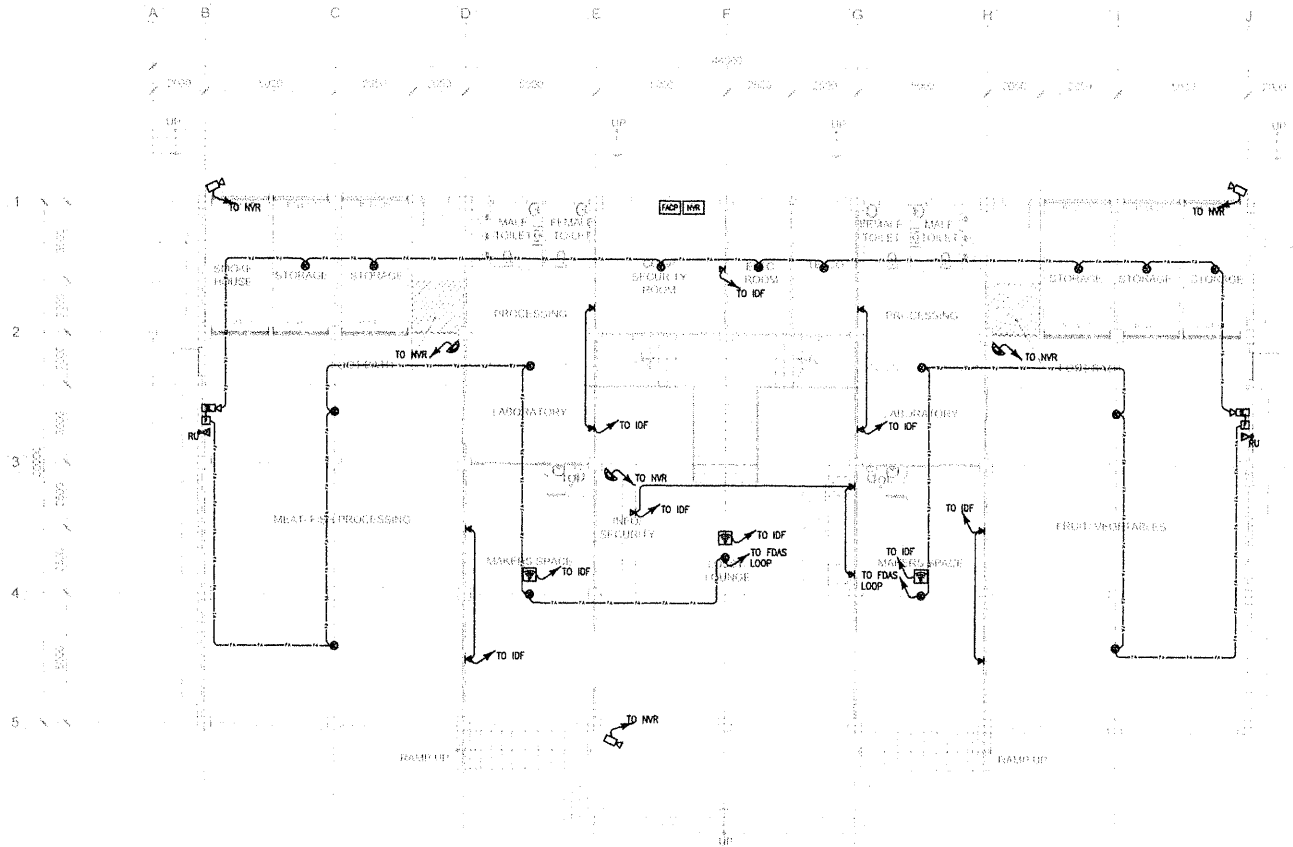
PP-2F-DORM PANELBOARD DIAGRAM

SCALE: NTS

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	 DIR. DANILLO BUNGALLON EXECUTIVE DIRECTOR, NITEDS	 DIR. JULIUS P. ROZCO CHIEF OF STAFF, CDO DIRECTOR-IN-CHARGE, BPU	 SEC. ISHIDA S. LAPERA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROPOSED TESDA INNOVATION CENTER - ISAT		 ENGR. JAY L. DURAN C. SANTOS ELECTRICAL ENGINEER, SPU-CDO	 ENGR. ROY LOUIE P. MINSARACAL ELECTRICAL ENGINEER, SPU-CDO	POWER SINGLE LINE DIAGRAM PANELBOARD DIAGRAM	E3-01

LEGATION: Manila Office of the Philippine Overseas Education Services Corporation (POESC), Manila, Philippines

LEGENDS AND SYMBOLS	
	SMOKE DETECTOR
	MANUAL PULL STATION
	STROBE LIGHT
	FIREMAN'S TELEPHONE JACK
	RISER UP/DOWN
	FIXED TYPE, IP-BASED CCTV CAMERA
	DOME TYPE, IP-BASED CCTV CAMERA
	WALL MOUNTED, VOICE/DATA OUTLET
	FLOOR MOUNTED, VOICE/DATA OUTLET
	WIRELESS ACCESS POINT

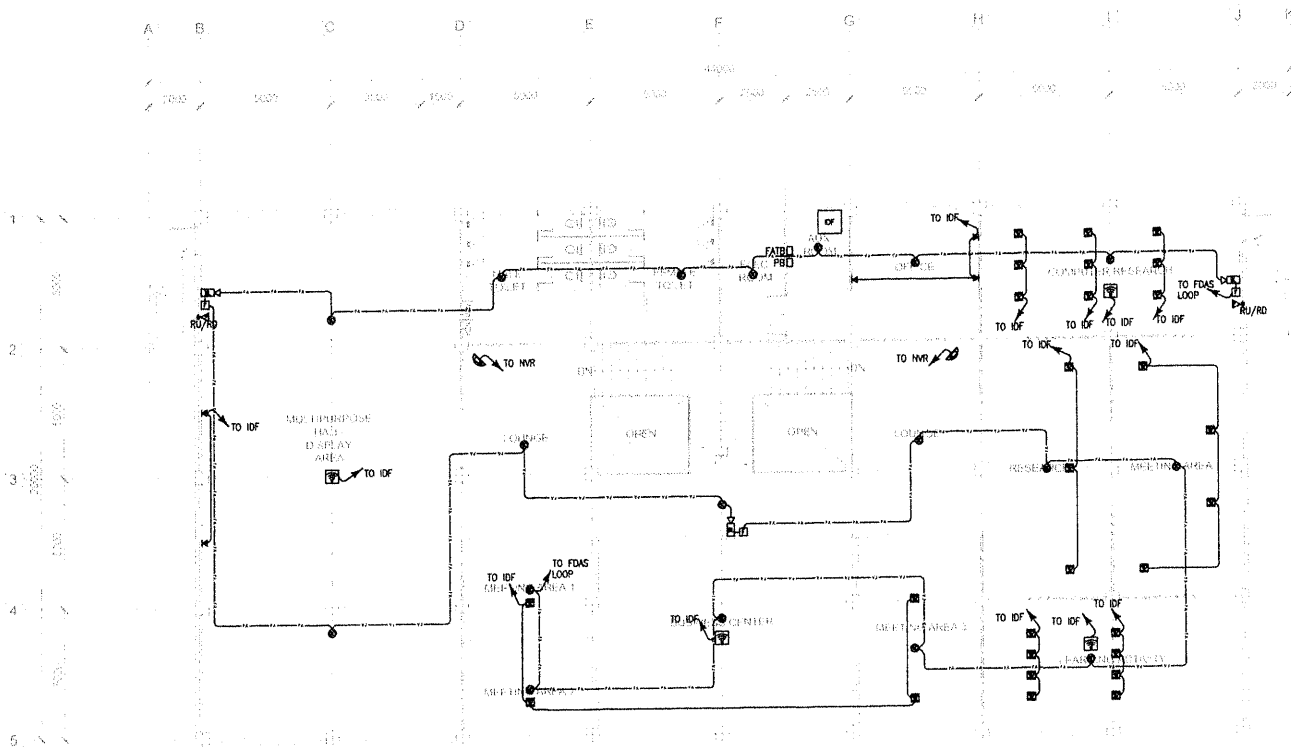


**TESDA INNOVATION CENTER - ISAT**  
**GROUND FLOOR AUXILIARY LAYOUT**  
 SCALE: 1:200 mm

<b>TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</b>	CONCURRED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SIGNATURE AND SPECIFICATIONS ARE SHOWN IN CONTRACT DOCUMENTS AND ONLY CONTRACT DOCUMENTS ARE THE OPERATIONAL, MAINTENANCE AND REPAIR DOCUMENTS. CONTRACTORS AND SUBSIDIARY CONTRACTORS MUST BE AWARE OF THE CONTRACT DOCUMENTS AND MAKE A COPY OF THEM FOR THEIR OWN USE. CONTRACTORS AND SUBSIDIARY CONTRACTORS ARE MADE AWARE OF THE CONTRACT DOCUMENTS AND MAKE A COPY OF THEM FOR THEIR OWN USE. CONTRACTORS AND SUBSIDIARY CONTRACTORS ARE MADE AWARE OF THE CONTRACT DOCUMENTS AND MAKE A COPY OF THEM FOR THEIR OWN USE.	PREPARED BY:	REVIEWED AND SUBMITTED BY:	GROUND FLOOR AUXILIARY LAYOUT	SHEET NO.
	 DIR. DAVID B. BUNSALLAN EXECUTIVE DIRECTOR (RITED)	 DIR. JULIUS B. BROZCO CHIEF OF STAFF, LOGS DIRECTOR IN CHARGE, EPU	 SEC. ISIDORO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROPOSED TESDA INNOVATION CENTER - ISAT		 ENGR. ROMY LOUIE P. MINGARACAL ELECTRICAL ENGINEER, EPU/DOG	 ENGR. ROMY LOUIE P. MINGARACAL ELECTRICAL ENGINEER, EPU/DOG	EC1-01	



LEGENDS AND SYMBOLS	
	SMOKE DETECTOR
	MANUAL PULL STATION
	STROBE LIGHT
	FIREMAN'S TELEPHONE JACK
	RISER UP/DOWN
	FIXED TYPE, IP-BASED CCTV CAMERA
	DOME TYPE, IP-BASED CCTV CAMERA
	WALL MOUNTED, VOICE/DATA OUTLET
	FLOOR MOUNTED, VOICE/DATA OUTLET
	WIRELESS ACCESS POINT



**TESDA INNOVATION CENTER - ISAT**  
**SECOND FLOOR AUXILIARY LAYOUT**  
 SCALE: 1: 200 mm

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	 DIR. DAVID B. BUINGALLON EXECUTIVE DIRECTOR, NITSED	 DIR. JULIAN C. OROZCO DIRECTOR, AS CHIEF OF STAFF, COO DIRECTOR-IN-CHARGE, SPU	 SEC. ISIDRO S. LAPENA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY	PROPOSED TESDA INNOVATION CENTER - ISAT	ENGR. JOYLOU P. MINGARACAL ELECTRICAL ENGINEER, SPU/DOO	 ENGR. JOYLOU P. MINGARACAL HEAD, SPU/DOO	SECOND FLOOR AUXILIARY LAYOUT	<b>EC1-02</b>

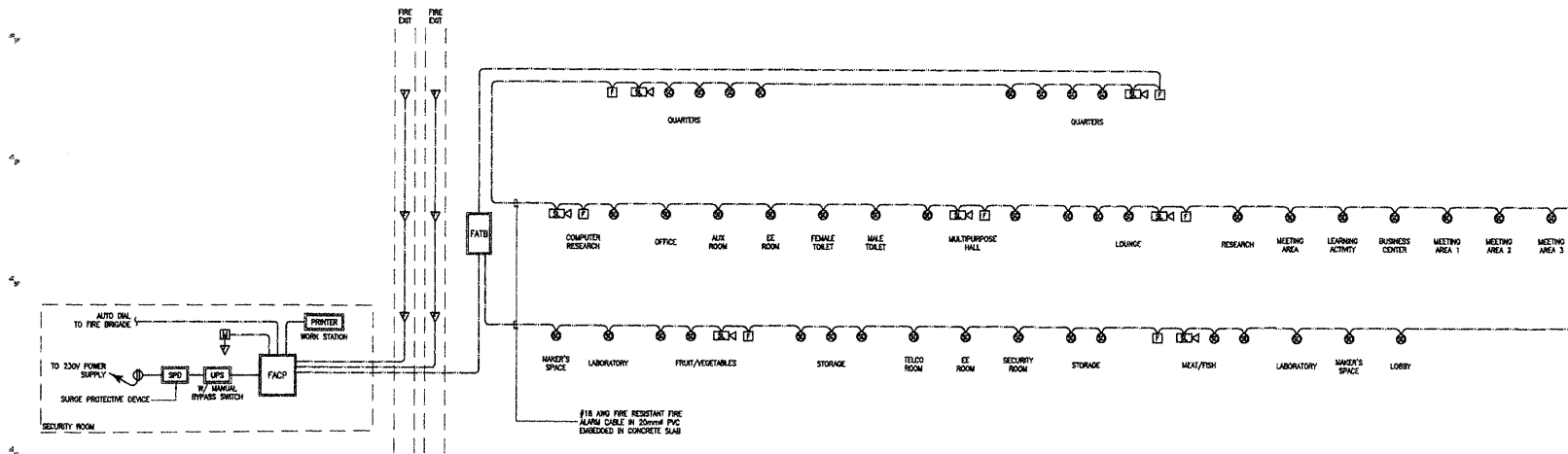
LOCATION: National Board of Professional Firefighters (NBF) Camp, Marikina City

LEGENDS AND SYMBOLS	
	SMOKE DETECTOR
	MANUAL PULL STATION
	STROBE LIGHT
	FIREMAN'S TELEPHONE JACK
	RISER UP/DOWN
	FIXED TYPE, IP-BASED CCTV CAMERA
	DOME TYPE, IP-BASED CCTV CAMERA
	WALL MOUNTED, VOICE/DATA OUTLET
	FLOOR MOUNTED, VOICE/DATA OUTLET
	WIRELESS ACCESS POINT



**TESDA INNOVATION CENTER - ISAT  
THIRD FLOOR AUXILIARY LAYOUT**  
 SCALE: 1: 200 mm

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	 <small>DIR. DAVID B. BUNSALLAN EXECUTIVE DIRECTOR, INTEED</small>	 <small>DIR. JULIET S. OROZCO DIRECTOR IV AS CHIEF OF STAFF, OOO DIRECTOR OF CHANCE, SPU</small>	 <small>SEC. ISIDRO S. LAPEÑA, PH.D., CSEE DIRECTOR GENERAL TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY</small>	<b>PROPOSED TESDA INNOVATION CENTER - ISAT</b>	 <small>ENGR. ROY LOUIE P. MINGARACAL ELECTRICAL ENGINEER, SPU-ODD</small>	 <small>ENGR. ROY LOUIE P. MINGARACAL ELECTRICAL ENGINEER, SPU-ODD</small>	<b>THIRD FLOOR AUXILIARY LAYOUT</b>	<b>EC1-03</b>	



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 TESDA INNOVATION CENTER - ISAT  
**FIRE DETECTION AND ALARM SYSTEM SINGLE LINE DIAGRAM**  
 SCALE: \_\_\_\_\_ NTS



**TECHNICAL EDUCATION  
 AND  
 SKILLS DEVELOPMENT  
 AUTHORITY**

CONCURRED BY:  
  
 DIR. DANILLO BUNGALON  
 EXECUTIVE DIRECTOR, INTESD

RECOMMENDING APPROVAL:  
  
 DIR. JHETT P. OROZCO  
 DIRECTOR IV, ASST.  
 DIRECTOR OF STAFF, DEPT.  
 DIRECTOR-IN-CHARGE, ISAT

APPROVED BY:  
  
 SEC. ISIDRO S. LAPENA, PHD., CSEE  
 DIRECTOR GENERAL  
 TECHNICAL EDUCATION AND SKILLS  
 DEVELOPMENT AUTHORITY

PROJECT TITLE:  
 PROPOSED TESDA INNOVATION CENTER - ISAT  
LOCATION: Inaam Bldg of APM and Trade (TESDA ISAT) Compound, 1st Year City

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 AND HIS FIRM.

PREPARED BY:  
  
 ENGR. JOAQUIN C. SANTOS  
 ELECTRICAL ENGINEER, SPV-008

REVIEWED AND SUBMITTED BY:  
  
 ENGR. RAMON P. MINGARACAL  
 HEAD, SPV-008

SHEET CONTENTS:  
 FIRE DETECTION AND  
 ALARM SYSTEM  
 SINGLE LINE  
 DIAGRAM

SHEET NO.  
**EC2-01**