HW SE1	Γ:		01						
LOCATION	OCATION OF OPENING: DIMENSIONS & DOOR/FRAME TYPE:			SHUTTER	NO). OF DOORS:	1		
				106	ENTRANCE	ENTRANCE LOBBY/ UNPAID AREA PROPER			
				NON-HAND	ED				
DIMENSION				x	5930	×	19mm DIAMETER SST PIPE		
			SST	DR	×	SST	SST FR		
					<u>'</u>				
QTY.	UNIT	ITEM TYPE		DE	TAILED ITEN	1 SPECIFICAT	IONS	FINISH SPECIFICATIONS	
1	SET	DOOR CURTAIN & ASSEMBLY		STEEL GRILL H SAFETY ST	•		MOTORIZED (HEAVY DUTY ET DOOR	630	
1	SET	THRESHOLD), COUNTERBA	ALANCE, DEM	IOUNTABLE I	WEATHERSTRIP, 1IDPOST AS APPLICABLE, IGN & SPECIFICATIONS	C		
								×OR PER MANUFACTURER'S SPECIFICATIONS	

HW SE	Τ:		02					
LOCATIO	N OF OPENING:		MOTORIZED DOOR SH2	SHUTTER	N	10. OF DOORS	: 1	
				ROOM NO. 106 ENTRANCE LOBBY/ UNPAID AREA PROPER				
			HANDING:	NON-HAN	DED			
DIMENSIC	DIMENSIONS & DOOR/FRAME TYPE:			x	5930	x	19 mm DIAMETER SST PIPE	
				SST DR x SST FR				
QTY.	UNIT	ITEM TYPE		0	ETAILED ITE	M SPECIFICA	TIONS	FINISH SPECIFICATIONS
1	SET	DOOR CURTAIN & ASSEMBLY		STEEL GRIL SAFETY ST			MOTORIZED (HEAVY DUTY	630
1	SET	THRESHOLD	O, COUNTERB	BALANCE, DE	MOUNTABLE	WEATHERSTRIP, MIDPOST AS APPLICABLE, SIGN & SPECIFICATIONS	С	
								×OR PER MANUFACTURER'S SPECIFICATIONS

HW SE	T:		03					
LOCATION	OF OPENING:		MOTORIZED DOOR SH3	SHUTTER	NO	D. OF DOORS:	1	
			ROOM NO.	109	STATION F			
				NON-HAND	ED			
DIMENSIO	DIMENSIONS & DOOR/FRAME TYPE:		5665	×	5930	×	19 mm DIAMETER SST PIPE	
			SST	DR	x	SST FR		
QTY.	UNIT	ITEM TYPE		D	ETAILED ITEN	M SPECIFICAT	TIONS	FINISH SPECIFICATIONS
1	SET	DOOR CURTAIN & ASSEMBLY		STEEL GRILL SAFETY ST			MOTORIZED (HEAVY DUTY	630
1	SET	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS				С	
								×OR PER MANUFACTURER'S SPECIFICATIONS

DOOR
FRAME
MATERIAL:
STEEL TYPE
STAINLESS STEEL TYPE
IISH CODE:
STAINLESS STEEL METAL, SATIN
STEEL BASE METAL
STAINLESS STEEL BASE METAL

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

CP01-B4-093_R1

MANUFACTURER'S SPECIFICATIONS

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

 ${\tt BACKCHECK-SLOWS\ THE\ DOOR\ THAT\ IS\ IN\ THE\ OPENING\ SWING\ (FELT\ WHEN\ NEAR\ THE\ FULLY\ OPEN}$ POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO

PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER, PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.



This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

111 021.			• •							
LOCATION OF	OCATION OF OPENING:			MOTORIZED SHUTTER DOOR SH4		O. OF DOORS	: 3			
			ROOM NO.	109	STATION P	STATION PLAZA (COMMUTERS)				
		HANDING:	NON-HANI	DED						
DIMENSIONS & DOOR/FRAME TYPE:			9400	×	5930	x	19 mm DIAMETER SST PIPE			
		SST	SST DR x SST FR							
QTY.	UNIT	ITEM TYPE		С	ETAILED ITEN	M SPECIFICA	TIONS	FINISH SPECIFICATIONS		
3	SETS	DOOR CURTAIN & ASSEMBLY	STAINLESS TYPE) WITH	630						
3	SETS	THRESHOLD	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS							
							×OR PER			



HW SET:

HW SET	:		05							
LOCATION	OCATION OF OPENING:		MOTORIZED DOOR SH5	MOTORIZED SHUTTER		NO. OF DOORS: 1				
				ROOM NO. 206 CENTRAL AISLE						
				NON-HAND	ED					
DIMENSIONS	IMENSIONS & DOOR/FRAME TYPE:		6870	x	5800	x	19 mm DIAMETER SST PIPE			
			SST DR x SST FR				FR			
							·			
QTY.	UNIT	ITEM TYPE		D	ETAILED ITEN	1 SPECIFIC <i>A</i>	TIONS	FINISH SPECIFICATIONS		
1	SET	DOOR CURTAIN & ASSEMBLY			•		MOTORIZED (HEAVY DUTY KET DOOR OPTION	630		
1	SET	THRESHOLI	D, COUNTERB	ALANCE, DEM	IOUNTABLE	WEATHERSTRIP, MIDPOST AS APPLICABLE, SIGN & SPECIFICATIONS	С			
								×OR PER		
								MANUFACTURER'S SPECIFICATIONS		

HW SE	HW SET:			06						
LOCATIO	LOCATION OF OPENING:		MOTORIZED DOOR SH6	MOTORIZED SHUTTER DOOR SH6		O. OF DOORS:	2			
				206	CENTRAL	AISLE				
				NON-HAND	ED					
DIMENSIC	DIMENSIONS & DOOR/FRAME TYPE:			x	5800	x	19 mm DIAMETER SST PIPE			
				DR	x	x SST FR				
QTY.	UNIT	ITEM TYPE		DI	ETAILED ITEI	M SPECIFICAT	IONS	FINISH SPECIFICATIONS		
2	SETS	DOOR CURTAIN & ASSEMBLY		STEEL GRILL SAFETY ST			MOTORIZED (HEAVY DUTY	630		
2	SETS	THRESHOLD), COUNTERB	ALANCE, DEN	10UNTABLÉ N	WEATHERSTRIP, MIDPOST AS APPLICABLE, IGN & SPECIFICATIONS	С			
								×OR PER MANUFACTURER'S SPECIFICATIONS		

HW SET	Γ:		07					
LOCATION	OCATION OF OPENING:		MOTORIZED DOOR SH7	SHUTTER	NO). OF DOORS:	1	
				201	ENTRANCE	ENTRANCE LOBBY/UNPAID AREA PROPER		
				NON-HAND	DED			
DIMENSIONS & DOOR/FRAME TYPE:			5665	х	4000	×	19 mm DIAMETER SST PIPE	
			SST	DR	x	SST	FR	
QTY.	UNIT	ITEM TYPE		D	ETAILED ITEN	1 SPECIFICAT	TIONS	FINISH SPECIFICATIONS
1	SET	DOOR CURTAIN & ASSEMBLY			L SHUTTER; H		MOTORIZED (HEAVY DUTY	630
1	SET	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS					C
								×OR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:						
DR	DOOR					
FR	FRAME					
DOOR/ FRAME	MATERIAL:					
ST	STEEL TYPE					
SST	STAINLESS STEEL TYPE					
HARDWARE FIN	IISH CODE:					
630	STAINLESS STEEL METAL, SATIN					
Α	STEEL BASE METAL					
С	STAINLESS STEEL BASE METAL					

Reviewed by NSTen

joige Müller

HW SET: LOCATION OF OPENING: NOTES:

UNAUTHORIZED ENTRY.

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

 ${\tt BACKCHECK-SLOWS\ THE\ DOOR\ THAT\ IS\ IN\ THE\ OPENING\ SWING\ (FELT\ WHEN\ NEAR\ THE\ FULLY\ OPENION OF THE PROPERTY OF$ POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

CP01-B4-094_R1

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO ${\tt PREVENT~"SHIMMING"~OR~"JIMMYING"~OF~THE~LATCH~BOLT;~ARRANGEMENT~PREVENTS~THE~LATCHBOLT~FROM}$ BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO

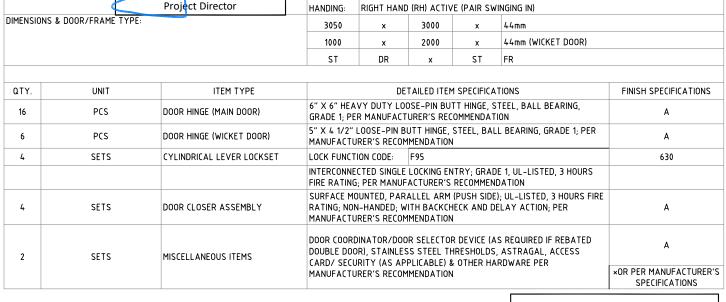
NO. OF DOORS: 2

ANSI/BHMA	FUNCTION CODES FOR CYLI	INDRICAL AND MORTISE LOCKSETS
CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86		DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	DEADROLL SINGLE-LOLKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

SER

114

115



DOUBLE DOOR D2

ROOM NO.

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

SCALE

SHEET No.

OCTOBER 2017

N/A

NSCR-DWG-TTB-AR-3372

> 0									
-t4 / res/U	VER	DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION	DESIGN C		THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER		
Z\sha	03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM	REPUBLIC OF THE PHILIPPINES	JICA DETAILED DESIGN STUDY TEAM	TITLE	JDT	SMEC	RAILWAY PROJECT (MALOLOS-TUTUBAN)
30.102					ORIENTAL CONSULTANTS GLOBAL CO., LTD.	DESIGNER	H. KISHI	A. ALLI	DETAILED DESIGN
\10.1				PHILIPPINE NATIONAL RAILWAYS	KATAHIRA & ENGINEERS JAPAN INTERNATIONAL CONSULTANTS FOR	CHECK	A. AIKAWA	N. HAMILTON	TUTUBAN STATION
ame: \					TRANSPORTATION CO., LTD.	TEAM LEADER	N. MATSUMOTO	J. BARNES	ARCHITECTURAL
Filena				JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CC LTD	PROJ. MANAGER	M. MIYATA M. Woydo	R. YUZON, JR.	SCHEDULE OF HARDWARE SHEET 2

				ST	DR	×	ST	FR		3		SETS		
					'			'						
	UNIT	ITEM TYPE			DETAILED ITEM SPECIFICATIONS FINISH SPEC				FINISH SPECIFICATIONS	3		SETS		
	PCS DOOR HINGE			5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION				А						
	SET	CYLINDRICAL LEVER LO	OCKSET	LOCK FUNCT	ION CODE:	F76B			630					
				PRIVACY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION					6		SETS			
	SET	SET DOOR CLOSER ASSEMBLY			SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION				A	3		SETS		
	SET	MISCELLANEOUS ITEMS		STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION				А						
									×OR PER MANUFACTURER'S SPECIFICATIONS					
	DESCRIPTION		DED A DELIVENT OF TRANSPORTATION		DESIGN CONSULTA		ANT							
017	7 FINAL REVISION OF JICA DESIGN TEAM			DEPARTMENT OF TRANSPORT		REPUBLIC OF THE PHILIP					STUDY TEAM		TITLE	

STAINLESS STEEL TYPE STAINLESS STEEL

LEGEND:

FR

FRAME

STEEL TYPE

METAL, SATIN

METAL

STEEL BASE METAL

STAINLESS STEEL BASE

DOOR/ FRAME MATERIAL:

HARDWARE FINISH CODE:

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO

PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY

CYLINDRICAL	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://www.maderco.com)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

CP01-B4-095_R1

Reviewed by NSTren HW SET: LOCATION OF OPENING: jorge Müller Project Director DIMENSIONS & DOOR/FRAME TYPE

DOUBLE DOOR D4 (LOUVER) NO. OF DOORS: 3 COMM UPS RM DOMESTIC WATER TANK ROOM 121 FIRE WATER TANK & PUMP ROOM HANDING: RIGHT HAND (RH) ACTIVE (PAIR SWING IN) 1850 2100 44mm ST ST FR

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
24	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY (AT ACTIVE DOOR LEAF); GRADE 1, UL-LISTED,3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: —	630
			DUMMY LOCKSET (AT OPPOSITE DOOR); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
6	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	А
3	SETS	MISCELLANEOUS ITEMS	FOOTBOLT/ FLUSHBOLT, STAINLESS STEEL THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
				×OR PER MANUFACTURER'S SPECIFICATIONS

Ser			
\\10.1.30.102\shares\User	VER DATE		DESCRIPTION
2\sha	03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM
30.10			
.\10.1.			
ате: \			



KATAHIRA & ENGINEERS INTERNATIONAL PACIFIC CONSULTANTS

ORIENTAL CONSULTANTS

CONSULTANTS FOR TRANSPORTATION CO., LTD. TONICHI ENGINEERING CONSULTANTS INC.

TITLE SMEC H. KISHI A. ALLI DESIGNER A. AIKAWA N. HAMILTON TEAM LEADER N MATSUMOTO / RARNES ROJ. MANAGER M. MIYATA W. WOTO R. YUZON, JR. 🎮

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 3

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 SCALE N/A SHEET No. NSCR-DWG-TTB-AR-3373

03

General Bid
Bulletin No.
8, Annex F-4

HW SET:			13									
LOCATION OF	OPENING:		SINGLE DOOF	R D5	N	0. OF	DOORS	5: 2				
			ROOM NO.	129	CUSTOME	R SER	/ICE					
			224 TRAINING & MAINTENANCE ROOM									
			HANDING:	RIGHT HANI) (RH) (SWII	NG IN)						
DIMENSIONS	& DOOR/FRAME TYPI	E:	1050	×	2100		x	44mm				
			ST	DR	×		ST	FR				
			'					<u>'</u>				
QTY.	UNIT	ITEM TYPE		DE	TAILED ITE	M SPE	CIFICA	TIONS	FINISH SPECIFICATIONS			
8	PCS	DOOR HINGE	5" X 4 1/2" I MANUFACTU				L, BAL	L BEARING, GRADE 1; PER	A			
2	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT		F82A				630			
			ENTRY/OFFI MANUFACTU				, 3 HO	URS FIRE RATING; PER				
							SIDE);	UL-LISTED, 3 HOURS FIRE				
2	SET	DOOR CLOSER ASSEMBLY	RATING; NON MANUFACTU				AND D	ELAY ACTION; PER	A			
2	SET	MISCELLANEOUS ITEMS	STAINLESS S	STEEL THRES	SHOLDS, &	OTHER	HARE	WARE PER	A			
			MANUFACTU	KEK'S RECUI	MENDATIO	N			×OR PER MANUFACTURER'S			
									SPECIFICATIONS			
HW SET:			14									
LOCATION OF	OPENING:			D DF		10. OF	DOOD					
			SINGLE DOOF					5: Z				
			ROOM NO.	129	CUSTOME							
				207	CUSTOME		VICE R	<u>M.</u>				
DIMENSIONS	& DOOR/FRAME TYPI	F.	HANDING:	LEFT HAND		G IN)		1				
DII IEIVOIOIVO	a pootty i try tile i i i i		1050	X	2100		X	44mm				
			ST	DR	Х		ST	FR				
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATION:					FINISH SPECIFICATIONS				
8	PCS	DOOR HINGE	5" X 4 1/2" I				L, BAL	L BEARING, GRADE 1; PER	A			
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT	ION CODE:	F82A				630			
			ENTRY/OFFI MANUFACTU				, 3 HO	URS FIRE RATING; PER				
							SIDE);	UL-LISTED, 3 HOURS FIRE				
2	SETS	DOOR CLOSER ASSEMBLY	RATING; NON MANUFACTU				AND D	ELAY ACTION; PER	A			
2	SETS	MISCELLANEOUS ITEMS	STAINLESS	STEEL THRES	SHOLDS, &	OTHER	HARE	DWARE PER	Α			
			MANUFACTU	RER'S RECO	MENDA I IO	N						
									×OR PER MANUFACTURER'S SPECIFICATIONS			
HW SET:			15									
LOCATION OF	OPENING:		SINGLE DOOR D5 NO. OF DOORS: 2									
			ROOM NO.	227	SECURITY							
				228	OCS RM							
DIMENSIONS	A DOOD (ED LIJE T)(D)	_	HANDING:	RIGHT HAN	D (RH) (SWII	NG IN)						
DIMENSIONS	& DOOR/FRAME TYPI	i:	1050	x	2100		X	44mm				
			ST	DR	x		ST	FR				
QTY.	UNIT	ITEM TYPE	F# V 1 ****		TAILED ITE				FINISH SPECIFICATIONS			
8	PCS	DOOR HINGE	MANUFACTU				L, BAL	LL BEARING, GRADE 1; PER	A			
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT	ION CODE:	F82A				630			
		ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION										
			_				SIDF).	UI -LISTED 3 HOURS FIRE				
2	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER A					A				
			MANUFACTURER'S RECOMMENDATION STAINLESS STEEL THRESHOLDS, ACCESS CARD/ SECURITY (AS									
2 SETS MISCELLANEOUS ITEMS A				APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION					A			
			RECOMMEND	ATION					×OR PER MANUFACTURER'S			
								SPECIFICATIONS				

LEGEND: FR FRAME DOOR/ FRAME MATERIAL: STEEL TYPE STAINLESS STEEL TYPE HARDWARE FINISH CODE: STAINLESS STEEL METAL, SATIN STEEL BASE METAL STAINLESS STEEL BASE METAL

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

CP01-B4-096_R1

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

 ${\tt BACKCHECK-SLOWS\ THE\ DOOR\ THAT\ IS\ IN\ THE\ OPENING\ SWING\ (FELT\ WHEN\ NEAR\ THE\ FULLY\ OPEN}$ POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO

PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

ANSI/BHMA FUNCTION CODES FOR CYLINDRICAL AND MORTISE LOCKSETS							
CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)					
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.					
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.					
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.					
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.					
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.					
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.					
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.					



This Drawing was originally prepared by JICA design $\,$ team and reviewed/adjusted by NSTren Consortium

HW SET:	16				
LOCATION OF OPENING:	SINGLE DOOR D		R D5 NO. 0		1
	R00M N0.	229	STATION M	IASTER ROOF	1
	HANDING:	LEFT HAND	(LH) (SWING		
DIMENSIONS & DOOR/FRAME TYPE:	1050	x	2100	x	44mm
	ST	DR	×	ST	FR

$-\parallel$	QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
	4	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
	1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A	630
				ENTRY/OFFICE LOCK GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
	1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	A
	1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, ACCESS CARD/ SECURITY (AS APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
					×OR PER MANUFACTURER'S SPECIFICATIONS

2018 AD SI			3113	PIISCELLANEOUS ITEMS
modified by TALENTO-C4 / 04 Jul 2018 ime: \\10.1.30 102\shares\Users\CAD S				
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ENTO 2\sha	03	25 OCT 2017	FINAL REVISION OF JICA DI	ESIGN TEAM
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DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



LIPPINES	JICA D	ETAILED DESIGN STUDY	TEAM
LWAYS	OCGLOBAL	ORIENTAL CONSULTANTS GLOBAL CO., LTD.	
LWAIO	KEI	KATAHIRA & ENGINEERS INTERNATIONAL	JAPAN INT CONSULT TRANSPO

ORIENTAL CONSULTANTS KATAHIRA & ENGINEERS CON INTERNATIONAL TRAIT PACIFIC CONSULTANTS CO., LTD.

	DESIGNER	H.
AN INTERNATIONAL	CHECK	A.
	TEAM LEADER	N.
IOLU TANTO DIO	PROJ. MANAGER	M.

DESIGN CONSULTANT

	TITLE	JDT	SMEC
	DESIGNER	H. KISHI	A. ALLI
	CHECK	A. AIKAWA	N. HAMILTON
Ο.	TEAM LEADER	N. MATSUMOTO	J. BARNES
	PROJ. MANAGER	M. MIYATA N. WOTTO	R. YUZON, JR.

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 4

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

DATE		
	OCTOBER	2017
SCALE		
	N/A	
SHEET No.		
DRG No.		

NSCR-DWG-TTB-AR-3374

17 LOCATION OF OPENING: SINGLE DOOR D5 NO. OF DOORS: 1 ROOM NO. 226 STAFF ROOM RIGHT HAND (RH) (SWING IN) HANDING: DIMENSIONS & DOOR/FRAME TYPE: 1050 2100 44mm ST ST FR DR ITEM TYPE FINISH SPECIFICATIONS UNIT DETAILED ITEM SPECIFICATIONS 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER PCS DOOR HINGE MANUFACTURER'S RECOMMENDATION SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F82A ENTRY/OFFICE LOCK GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE SET DOOR CLOSER ASSEMBLY RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION STAINLESS STEEL THRESHOLDS, ACCESS CARD/ SECURITY (AS APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S SET MISCELLANEOUS ITEMS RECOMMENDATION ×OR PER MANUFACTURER'S HW SET: LOCATION OF OPENING: SINGLE DOOR D5 NO. OF DOORS: 1 ROOM NO. 225 CLEANER'S ROOM RIGHT HAND (RH) (SWING IN) HANDING: DIMENSIONS & DOOR/FRAME TYPE: 44mm ST DR FR ST QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER PCS DOOR HINGE MANUFACTURER'S RECOMMENDATION SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F86 STOREROOM / CLOSET / VESTIBULE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SET DOOR STOP MAGNETIC DOORSTOP WITH CATCH SCREW MOUNT STAINLESS STEEL THRESHOLDS, ASTRAGAL, PEST PROOFING, & OTHER SET MISCELLANEOUS ITEMS 1 HARDWARE PER MANUFACTURER'S RECOMMENDATION ×OR PER MANUFACTURER'S

LEGEND: DOOR FR FRAME DOOR/ FRAME MATERIAL: ST STEEL TYPE STAINLESS STEEL TYPE HARDWARE FINISH CODE: STAINLESS STEEL METAL, SATIN STEEL BASE METAL STAINLESS STEEL BASE METAL

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

CP01-B4-097_R1

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO

PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER, PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.



This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

Z					HW SET:	20						
	HW SET:	19					LOCATION OF OPENING:	SINGLE DOOR	D5	NC	. OF DOOR	S: 7
RAW	LOCATION OF OPENING:	SINGLE DOOF	₹ D5	NO.	OF DOORS	5: 1		ROOM NO.	134	MALE BEDF	ROOM (DRIV	/ER'S WAITING)
√L D		ROOM NO.	134	MALE BEDR	OOM(DRIVE	R'S WAITING)			136	FEMALE BE	DROOM (DE	RIVER'S WAITING)
È		HANDING:	LEFT HAND	(LH) (SWING	N)			HANDING:	RIGHT HAN	(RH) (SWIN	G IN)	
+27	DIMENSIONS & DOOR/FRAME TYPE:	1050	×	2100	×	44mm	DIMENSIONS & DOOR/FRAME TYPE:	1050	х	2100	x	44mm
1807		ST	DR	x	ST	FR		ST	DR	x	ST	FR
It. 20												

630

SPECIFICATIONS

630

630

SPECIFICATIONS

UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS	QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A	28	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F90	630	7	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F90	630
		CORRIDOR/ DORMITORY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION					CORRIDOR/ DORMITORY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	А	7	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	A
SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A	7	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
			×OR PER MANUFACTURER'S SPECIFICATIONS					×OR PER MANUFACTURER' SPECIFICATIONS
	PCS SET SET	PCS DOOR HINGE SET CYLINDRICAL LEVER LOCKSET SET DOOR CLOSER ASSEMBLY	PCS DOOR HINGE 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F90 CORRIDOR/ DORMITORY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION SET MISCELLANEOUS ITEMS STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER	PCS DOOR HINGE 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION 630 SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F90 630 CORRIDOR/ DORMITORY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION SET MISCELLANEOUS ITEMS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION **OR PER MANUFACTURER'S	PCS DOOR HINGE 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION 28 SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F90 630 7 CORRIDOR/ DORMITORY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION SET MISCELLANEOUS ITEMS STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION ×OR PER MANUFACTURER'S	PCS DOOR HINGE 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION 28 PCS SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F90 630 7 SETS CORRIDOR/ DORMITORY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SET DOOR CLOSER ASSEMBLY RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION SET MISCELLANEOUS ITEMS STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER AND	PCS DOOR HINGE 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER A 28 PCS DOOR HINGE SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F90 630 7 SETS CYLINDRICAL LEVER LOCKSET CORRIDOR/ DORMITORY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE MANUFACTURER'S RECOMMENDATION SET MISCELLANEOUS ITEMS STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION **OR PER MANUFACTURER'S **OR PER MANUFACTURER'S **OR PER MANUFACTURER'S	PCS DOOR HINGE 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION A 28 PCS DOOR HINGE 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION 630 7 SETS CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F90 CORRIDORY DORMITORY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION AND ED, WITH BACKCHECK AND DELAY ACTION; PER

DESIGN CONSULTANT

TITLE

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DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES

PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



JICA DETAILED DESIGN STUDY TEAM

CONSULTANTS FOR TRANSPORTATION C TRANSPORTATION CO., LTD. TEAM LEADER TONICHI ENGINEERING CONSULTANTS INC.

H. KISHI A. ALLI DESIGNER A. AIKAWA N. HAMILTON N. MATSUMOTO J. BARNES ROJ. MANAGER M. MIYATA R. YUZON, JR. 🥎

SMEC

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 5

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 SCALE N/A SHEET No.

NSCR-DWG-TTB-AR-3375

by TALENTO-C4 / 04 Jul 2018 1.30.102\shares\Users\CAD S

ORIENTAL CONSULTANTS

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Bulletin No.
, Annex F-6

HW SE	T:		21							
	I OF OPENING:		SINGLE DOOR D6 NO. OF DOORS: 2							
			ROOM NO.	221	GAD RM	. 0. 500	<u></u>			
				222	BFR RM					
			HANDING:	LEFT HAND	(LH) (SWING	IN)				
DIMENSIO	NS & DOOR/FRAME TYPE	:	950	×	2100	×	44mm			
			ST	DR	x	ST	FR			
QTY.	UNIT	ITEM TYPE			ETAILED ITEM			FINISH SPECIFICATIONS		
8	PCS	DOOR HINGE			BUTT HINGE, S MMENDATION		LL BEARING, GRADE 1; PER	Α		
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT	ION CODE:	F76B			630		
					1, UL-LISTED, MMENDATION	3 HOURS I	FIRE RATING; PER			
2	SETS	DOOR CLOSER ASSEMBLY	SURFACE M	OUNTED, REC	GULAR ARM (F		; UL-LISTED, 3 HOURS FIRE DELAY ACTION; PER	A		
			MANUFACTU	JRER'S RECO	MMENDATION		·			
2	SETS	MISCELLANEOUS ITEMS			MMENDATION	IHER HAR	DWARE PER	A		
								×OR PER MANUFACTUREF SPECIFICATIONS		
HW SE	т.		22							
	I OF OPENING:		SINGLE DOO	R D6	NO	. OF DOOR	S: 3			
			ROOM NO. 131 MALE TOILET							
				132	FEMALE TO					
			226-A STAFF TOILET 1(MALE)							
			HANDING:	RIGHT HAN	ID (RH) (SWING	3 IN)				
DIMENSIO	NS & DOOR/FRAME TYPE	i:	950	x	2100	x	44mm			
			ST	DR	x	ST	FR			
QTY.	UNIT	ITEM TYPE		D	ETAILED ITEM	SPECIFICA	ATIONS	FINISH SPECIFICATIONS		
12	PCS	DOOR HINGE			BUTT HINGE, S		LL BEARING, GRADE 1; PER	A		
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT		F76B			630		
						3 HOURS I	FIRE RATING; PER			
					MMENDATION	VIII SIDE)	; UL-LISTED, 3 HOURS FIRE			
3	SETS	DOOR CLOSER ASSEMBLY	RATING; NO	N-HANDED; \		ECK AND D	DELAY ACTION; PER	Α		
3	SETS	MISCELLANEOUS ITEMS	STAINLESS	STEEL THRE	SHOLDS, & O	THER HAR	DWARE PER	A		
								×OR PER MANUFACTURER SPECIFICATIONS		
HW SE	I OF OPENING:		23							
-0CA 1101	TOT OF ENING.		SINGLE DOO			. OF DOOR				
			ROOM NO.	226-A	STAFF TOIL		ALE)			
DIMET.	NC 4 D002 (52 () = =		HANDING:	LEFT HAND	(RH) (SWING	IN)				
JIMENSIO	NS & DOOR/FRAME TYPE	:	950	×	2100	x	44mm			
			ST	DR	x	ST	FR			
OTY	LAUT	ITEM TWO			ETAILED ITE	CDECIEIC	TIONS	FINICII CDECIEICA TIONI		
QTY.	UNIT	ITEM TYPE		U	ETAILED ITEM	SPECIFICA	4 LION2	FINISH SPECIFICATIONS		

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME	MATERIAL:
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
HARDWARE FIN	IISH CODE:
630	STAINLESS STEEL METAL, SATIN
Α	STEEL BASE METAL
С	STAINLESS STEEL BASE METAL

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

CP01-B4-098_R1

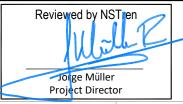
POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO

PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

ANSI/BHMA FUNCTION CODES FOR CYLINDRICAL AND MORTISE LOCKSETS								
CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://www.hagerco.com)						
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.						
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.						
F86	TO THE PRIME A LITTLE TO VECTORINE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.						
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.						
F95		LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.						
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.						
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.						



This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F76B	630
			PRIVACY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	Α
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
				×OR PER MANUFACTURER' SPECIFICATIONS

HW SET:	24						
LOCATION OF OPENING:	SINGLE DOOF	R D7	NO	. OF DOORS:	1		
	ROOM NO.	135	MALE LOCK	ER & SHOWE	R (DRIVER'S WAITING)		
	HANDING:	LEFT HAND	(LH) (SWING				
DIMENSIONS & DOOR/FRAME TYPE:	750	x	2100	x	44mm		
	ST	DR	×	ST	FR		

	QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
5	3	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
	1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A	630
				ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
	1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	А
	1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
R'S					×OR PER MANUFACTURER'S SPECIFICATIONS

0			
5	VER	DATE	DESCRIPTION
DIIC)	03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM
7002			
. DIIIDIII			
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PHILIPPINE NATIONAL RAILWAYS

PACIFIC CONSULTANTS CO., LTD. JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA DETAILED DESIGN STUDY TEAM

ORIENTAL CONSULTANTS



DESIGN CONSULTANT

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	CHECK	A. AIKAWA	N. HAMILTON
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	PROJ. MANAGER	M. MIYATA N. WOYN	R. YUZON, JR.

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 6

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 SCALE N/A SHEET No.

NSCR-DWG-TTB-AR-3376

General Bid Bulletin No. 8, Annex F-7

HW SET:

LOCATION OF OPENING:

SINGLE DOOR D7

ROOM NO. 137 FEMALE LOCKER & SHOWER (DRIVER'S WAITING)
HANDING: RIGHT HAND (RH) (SWING IN)

DIMENSIONS & DOOR/FRAME TYPE:

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
3	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A	630
			ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	А
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
				×OR PER MANUFACTURER'S SPECIFICATIONS

DR

2100

44mm

FR

ST

750

ST

HW SET:	26	26							
LOCATION OF OPENING:	SINGLE DOOF	R D7	NO	NO. OF DOORS: 3		Reviewed by NSTren			
	ROOM NO.	128	STORAGE I	ROOM					
		219-A	SLOP SINK			111.~~			
		220-A	SLOP SINK			/ WO			
	HANDING:	RIGHT HAN) (RH) (SWIN	IG IN)		Joige Müller			
DIMENSIONS & DOOR/FRAME TYPE:	750	x	2100	x	44mm	Project Director			
	ST	DR	x	ST	FR				

, OF 11	QTY.	UNIT	ITEM TYPE	DE	DETAILED ITEM SPECIFICATIONS					
01\B04	9	PCS	DOOR HINGE		4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION					
awings\CP(3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE:	LOCK FUNCTION CODE: F86					
					STOREROOM / CLOSET / VESTIBULE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION					
Ö	3	SETS	DOOR STOP	MAGNETIC DOORSTOP WI	MAGNETIC DOORSTOP WITH CATCH SCREW MOUNT					
Revised	3	SETS	MISCELLANEOUS ITEMS		STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION					
) DOC \						×OR PER MANUFACTURER'S SPECIFICATIONS				

HW SET:	28				
LOCATION OF OPENING:	SINGLE DOOR D9 (EMERGENCY EXIT)		NO. OF DOORS:		: 1
	ROOM NO.	110	EMERGENC	EMERGENCY EXIT 2	
	HANDING:	LEFT HAND	HAND REVERSE (LHR) (SWING		OUT)
DIMENSIONS & DOOR/FRAME TYPE:	1050	x	2100	x	44mm
	ST	DR	x	ST	FR

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	Α
1	SET	DOOR PANIC HARDWARE	SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); WITH LEVER ON PULL SIDE (GRADE 1); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE; PER MANUFACTURER'S RECOMMENDATION	А
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	А
1	SET	MISCELLANEOUS ITEMS	BLANK PLATE (AT EXTERIOR), EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
				×OR PER MANUFACTURER' SPECIFICATIONS

LEGEND:			
DR	DOOR		
FR FRAME			
DOOR/ FRAME	MATERIAL:		
ST	STEEL TYPE		
SST	STAINLESS STEEL TYPE		
HARDWARE FIN	NSH CODE:		
630	STAINLESS STEEL METAL, SATIN		

STEEL BASE METAL

STAINLESS STEEL BASE

NOTES:

NON-HANDED – THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING.
DOGGING MECHANISM – MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION,
TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN
THE DOOR IS SECURED; FOR ESCAPE DOORS

CP01-B4-099_R1

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

ANSI/BHMA FUNCTION CODES FOR CYLINDRICAL AND MORTISE LOCKSETS							
CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)					
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.					
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.					
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.					
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.					
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.					
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.					
<u> </u>	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.					

HW SET:	27	27							
LOCATION OF OPENING:		R D8 NO. OF DOORS: 2		. OF DOORS	: 2				
	ROOM NO.	218	PWD TOILE	PWD TOILETS 1 & 2					
	HANDING:	RIGHT HAND SLIDING DOOR							
DIMENSIONS & DOOR/FRAME TYPE:	1050	x	2100	x	44mm				
	ST	DR	x	ST	FR				

	QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS		FINISH SPECIFICATIONS
-	2	SETS	DOOR TRACK SYSTEM & ASSEMBLY	MOUNTED; ME	.IDING DOOR TRACK SYSTEM; ROUND RAIL TRACK, SIE TAL ROUND RAIL DOOR HANGERS (1 PAIR PER SET), E R MANUFACTURER'S DESIGN & SPECIFICATIONS	A	
	2	SETS	DOOR GUIDE	METAL BOTTO SPECIFICATIO	OM / FLOOR MOUNTED GUIDE; PER MANUFACTURER'S	A	
-	2	SETS	SUPPORT BRACKETS & ASSEMBLY		T AT 500 MM – 600 MM ON CENTER SPACING, OR PER RER'S DESIGN & SPECIFICATIONS	А	
	2	SETS	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUFA	CTURER'S DESIGN & SPECIFICATIONS	Α	
	4	SETS	VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS S VISIBLE FIX (I	TEEL DOOR PULL HANDLE WITH PLATE; SURFACE MO PULL SIDE)	630	
				HANDLE: 425	mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLE		
	2	SETS	THUMBTURN (ACCESSIBLE) WITH OCCUPANCY INDICATOR	"VACANT"), A	'ITH OCCUPANCY INDICATOR ON OUTSIDE ("OCCUPIED" ADA COMPLIANT, WITH EMERGENCY KEY, 3 HOURS FIR CTURER'S RECOMMENDATION	630	
-	2	SETS	MISCELLANEOUS ITEMS	BUMPERS, BO	STEEL THRESHOLDS, END STOP, BUMPER SHOES, DOOI DLTS, FASTENERS, ASTRAGALS, STAY ROLLERS, JAN OTHER HARDWARE PER MANUFACTURER'S DESIGN & INS	А	
-						1	×OR PER MANUFACTURER'S SPECIFICATIONS
J			1		This Drawing was originally prepared by JICA design		

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

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C 2 10	VER	DATE	DESCRIPTION
DIIC 7	03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM
JV. IV			
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DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES

PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA DETAILED DESIGN STUDY TEAM

ORIENTAL CONSULTANTS
GLOBAL CO., LTD.

KATAHIRA & ENGINEERS
INTERNATIONAL

JAPAN IN
CONSULT
INTERNATIONAL

KATAHIRA & ENGINEERS INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.
PACIFIC CONSULTANTS
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TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 7

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017

SCALE

N/A

SHEET No.

DRG No.

NSCR-DWG-TTB-AR-3377
RG S. REV

HW SET: LOCATION OF OPENING: SINGLE DOOR D9 NO OF DOORS: 3 (EMERGENCY EXIT) 110 EMERGENCY EXIT 1 115 SUR 118 EMERGENCY EXIT STAIRS 3 HANDING: RIGHT HAND REVERSE (RHR) (SWING OUT) DIMENSIONS & DOOR/FRAME TYPE: 1050 2100 44mm x ST DR ST FINISH SPECIFICATIONS OTY UNIT ITFM TYPF DETAILED ITEM SPECIFICATIONS PCS DOOR HINGE FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION 12 SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; W/ POSITIVE LATCHING SETS DOOR PANIC HARDWARE ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING: NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER SETS DOOR CLOSER ASSEMBLY MANUFACTURER'S RECOMMENDATION BLANK PLATE (AT EXTERIOR), EXIT STOPPER DOOR ALARM, ASTRAGAL, SETS MISCELLANEOUS ITEMS STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER ×OR PER MANUFACTURER'S MANUFACTURER'S RECOMMENDATION **SPECIFICATIONS** HW SET: LOCATION OF OPENING: SINGLE DOOR D9 NO OF DOORS: 3 (EMERGENCY EXIT) EMERGENCY EXIT STAIRS ROOM NO. 235 E.EXIT STAIR 3(CONCOURSE) 310 E.EXIT STAIR 1(PLATFORM) HANDING: LEFT HAND (LH) (SWING IN) DIMENSIONS & DOOR/FRAME TYPE: 1050 2100 44mm ST DR ST FR QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 12 PCS DOOR HINGE FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); WITH LEVER ON PULL SIDE (GRADE 1); UL-LISTED, 3 HOURS FIRE RATING; SETS DOOR PANIC HARDWARE NON-HANDED; W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE SETS DOOR CLOSER ASSEMBLY RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, SETS MISCELLANEOUS ITEMS OR PER MANUFACTURER'S & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION SPECIFICATIONS HW SET: 31 LOCATION OF OPENING: SINGLE DOOR D9 NO. OF DOORS: 2 (EMERGENCY EXIT) E.EXIT STAIR 2 ROOM NO. E.EXIT STAIR 3 (PLATFORM) 310 RIGHT HAND (LH) (SWING IN) HANDING: DIMENSIONS & DOOR/FRAME TYPE: 1050 2100 ST DR ST FR QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS PCS DOOR HINGE FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); WITH LEVER ON PULL SIDE (GRADE 1); UL-LISTED, 3 HOURS FIRE RATING; SETS DOOR PANIC HARDWARE NON-HANDED; W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE SETS DOOR CLOSER ASSEMBLY RATING, NON-HANDED, WITH BACKCHECK AND DELAY ACTION, PER MANUFACTURER'S RECOMMENDATION EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION SETS MISCELLANEOUS ITEMS ×OR PER MANUFACTURER'S SPECIFICATIONS **DESIGN CONSULTANT**

LEGEND: FR FRAME DOOR/ FRAME MATERIAL: ST STEEL TYPE STAINLESS STEEL TYPE HARDWARE FINISH CODE STAINLESS STEEL METAL, SATIN STEEL BASE METAL STAINLESS STEEL BASE METAL

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

CP01-B4-100_R1

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

 ${\tt BACKCHECK-SLOWS\ THE\ DOOR\ THAT\ IS\ IN\ THE\ OPENING\ SWING\ (FELT\ WHEN\ NEAR\ THE\ FULLY\ OPENION OF AN ARTHUR FOR ARTHUR FULLY OPENION OF AN ARTHUR FULLY OPENION OF AN ARTHUR FULLY OPENION OF ARTHUR FULLY OPENION$ POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY

ANSI/BHMA	FUNCTION CODES FOR CYLI	INDRICAL AND MORTISE LOCKSETS
CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86		DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	DEADROLL SINGLE-LOLKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

Reviewed by NSTren HW SET: LOCATION OF OPENING: DOUBLE DOOR D10 NO. OF DOORS: 2 ROOM NO AFC ROOM 231 jorge Müller 232 AFC UPS RM. Project Director HANDING. LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT) DIMENSIONS & DOOR/FRAME TYPE: 2050 44mm ST ST

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
16	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN HEAVY DUTY BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
4	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
4	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	А
2	SETS	MISCELLANEOUS ITEMS	DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), STAINLESS STEEL THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY (AS APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
				×OR PER MANUFACTURER'S SPECIFICATIONS

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

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DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



JICA DETAILED DESIGN STUDY TEAM

KATAHIRA & ENGINEERS INTERNATIONAL PACIFIC CONSULTANTS

ORIENTAL CONSULTANTS

CONSULTANTS FOR TRANSPORTATION CO., LTI TONICHI ENGINEERING CONSULTANTS INC.

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TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 8

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 SCALE N/A SHEET No.

NSCR-DWG-TTB-AR-3378

HW SET:

LOCATION OF OPENING:

LUCATI	ON OF OPENIN	lG:		DOUBLE DOOR D10 NO. OF DOORS: 4							FR
				ROOM NO.	113	BACK OF H	OUSE H	ALLWAY			DOOR/ FR
					117	COMM RM.					ST
					223	BACK OF H		ALLWAY			SST
				HANDING:	230 RIGHT HANI	BMS ROOM		S CMING INI)			HARDWAR
DIMENS	IONS & DOOR	/FRAME TYPE:		2050	x	2100	X	· ·			
				ST	DR	x	s ⁻				630
											A
QTY.	QTY. UNIT ITEM TYPE					TAILED ITEN		FICATIONS HINGE, STEEL, BALL BEARING,	FINISH SPECIFICATIONS		C
32		PCS	DOOR HINGE		ER MANUFACT				Α		ANGLIA
8		SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT		F95	ITDV C	DADE A III. LICTED 2 HOURS	630		ANSI/B CYLINDE
					G; PER MANUF			RADE 1, UL-LISTED, 3 HOURS MENDATION			LOCK A
8		SETS	DOOR CLOSER ASSEMBLY	RATING; NO		ITH BACKCH	IECK AN	IDE); UL-LISTED, 3 HOURS FIRE ND DELAY ACTION; PER	A		F82
				DOOR COORI	DINATOR/DOG	OR SELECTO	R DEVIC	E (AS REQUIRED IF REBATED	A		
4	4 SETS MISCELLANEOUS ITEMS			CARD/ SECU		PLICABLE) 8	OTHE	ILDS, ASTRAGAL, ACCESS R HARDWARE PER	×OR PER MANUFACTURER'S SPECIFICATIONS		F109
HW S	FT:			34							F86
	ON OF OPENIN	IG:		DOUBLE DOO	DR D10	NO	D. OF DO	OORS: 1			
				ROOM NO.	133	COMMON R	00M (DI	RIVER'S WAITING)			F90
DIMENS	IUNC & DUUD	/FRAME TYPE:		HANDING:	RIGHT HAN						
DIFFERS		TRAIL TITE		2050 ST	DR	2100 x	x S				F95
0.71/		INUT	ITEM TYPE			T A II ED ITE	4.6056	FIGATIONS	FINISH CDECIFICATIONS		F7.0
QTY.		UNIT	ITEM TYPE	4 1/2" X 4"		TAILED ITEN BUTT HINGE,		FICATIONS BALL BEARING, GRADE 1; PER	FINISH SPECIFICATIONS		F76E
8		PCS	DOOR HINGE		JRER'S RECON	T	· ·		A (20		
2		SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT		F90 OCK: GRADI	- 1 UI -	LISTED, 3 HOURS FIRE RATING	. 630		
				PER MANUF	ACTURER'S R	ECOMMEND <i>A</i>	TION	·			
2		SETS	DOOR CLOSER ASSEMBLY	RATING; NO		ITH BACKCH	IECK AN	IDE); UL-LISTED, 3 HOURS FIRE ND DELAY ACTION; PER	Α		
1		SETS	MISCELLANEOUS ITEMS	DOUBLE DOO CARD/ SECU	DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), STAINLESS STEEL THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY (AS APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A	HW SET	C: OF OPENING:	
									×OR PER MANUFACTURER'S SPECIFICATIONS		
									0, 24, 14, 14, 14, 14	DIMENSION	IS & DOOR/FRAM
HW S				35							
LOCATI	ON OF OPENIN	lG:		SINGLE DOO				00RS: 1			
				ROOM NO. HANDING:	210	DIST.BRD.F (LH) (SWING				QTY.	UNIT
DIMENS	IONS & DOOR	/FRAME TYPE:		1050	x	2100	,,	44mm			
				ST	DR	х	\$			6	PCS
										2	SETS
QTY.		UNIT	ITEM TYPE	5" X 4 1/2"		TAILED ITEN		FICATIONS BALL BEARING, GRADE 1: PER	FINISH SPECIFICATIONS		
4		PCS	DOOR HINGE	MANUFACTU	JRER'S RECON	1MENDATION		STILL SETTING, GRADE I, FER	Α	2	SETS
1		SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT		F95 LOCKING EN	ITRY: G	RADE 1, UL-LISTED, 3 HOURS	630		
				FIRE RATING	; PER MANUF	ACTURER'S	RECOM	MENDATION		2	SETS
1		SET	DOOR CLOSER ASSEMBLY	RATING; NOI		ITH BACKCH	IECK AN	IDE); UL-LISTED, 3 HOURS FIRE ND DELAY ACTION; PER	A A		
1		SET	MISCELLANEOUS ITEMS	STAINLESS	STEEL THRES	SHOLDS, WE	ATHERS	STRIP, & OTHER HARDWARE P	ER A		
<u>'</u>		JE I	THISCELLANEOUS HEPIS	MANUFACTU	JRER'S RECON	1MENDATION	l		×OR PER MANUFACTURER'S SPECIFICATIONS		
VER	DATE	DE	SCRIPTION	G ()					DESIG	N CONS	SULTANT
		ENAME DE COMP	A DESCRIPTION	DEPARTMI REPUBLI	ENT OF TRAN	ISPORTATIO HILIPPINE	N s	JICA DETAILED DESIG		тіті	
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DOUBLE DOOR D10

NO. OF DOORS: 4

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME	MATERIAL:
ST	STEEL TYPE
SST	STAINLESS STEEL TYPI
HARDWARE FIN	NSH CODE:
630	STAINLESS STEEL METAL, SATIN
Α	STEEL BASE METAL
С	STAINLESS STEEL BASE METAL

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

CP01-B4-101_R1

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

HW SET: Project Director	36				
LOCATION OF OPENING:	SINGLE DOOI (LOUVER)	R D12	NO). OF DOORS:	2
	ROOM NO.	305	EPS RM 1 8	. 2	
	HANDING:	RIGHT HAND	(RH) (SWIN	G IN)	
DIMENSIONS & DOOR/FRAME TYPE:	750	x	2100	x	44mm
	ST	DR	x	ST	FR

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
6	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
2	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	А
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	Α
				×OR PER MANUFACTURER'S SPECIFICATIONS

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

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PHILIPPINE NATIONAL RAILWAYS



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KEI	KATAHIRA & ENGINEERS INTERNATIONAL	(
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CONSULTANTS FOR
TRANSPORTATION CO., LTD. TONICHI ENGINEERING CONSULTANTS INC.

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TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 9

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 SCALE N/A SHEET No. NSCR-DWG-TTB-AR-3379

HW SET:

LOCATION OF OPENING:

HW SET:		01						
LOCATION OF OPENING:		MOTORIZED DOOR SH1	SHUTTER	NO). OF DOORS	: 4		
			ROOM NO.	104	SOUTH & N	IORTH ENTR	ANCE/ EXIT 1 & 2	
			HANDING:	NON-HAND	DED			
DIMENSIONS & DOOR/FRAME TYPE:			4600	x	4000	x	19 mm DIAMETER SST PIPE	
			SST	DR	x	SST	FR	
QTY.	UNIT	ITEM TYPE		D	ETAILED ITEN	1 SPECIFICA	TIONS	FINISH SPECIFICATIONS
4	SETS	DOOR CURTAIN & ASSEMBLY	STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION			630		
4	SETS	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS			С		
								×OR PER

HW SET:			02					
LOCATION OF OPENING:			MOTORIZED DOOR SH2	SHUTTER	N	D. OF DOORS	5: 2	
			ROOM NO.	104	SOUTH & 1	NORTH ENTR	RANCE/ EXIT 1 & 2	
			HANDING:	NON-HAND	DED			
DIMENSIO	DIMENSIONS & DOOR/FRAME TYPE:			x	4000	x	19 mm DIAMETER SST PIPE	
		SST	DR	x	SST	FR		
			·					
QTY.	UNIT	ITEM TYPE		D	ETAILED ITEI	1 SPECIFICA	TIONS	FINISH SPECIFICATIONS
2	SETS	DOOR CURTAIN & ASSEMBLY		STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION; WITH WICKET DOOR				
2	SETS	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS				С	
								×OR PER MANUFACTURER'S SPECIFICATIONS

			(EMERGENCY EXIT)		(EXIT) NO. OF DOORS: 2				
			ROOM NO.		EMERGENC	Y EXIT 1 &	4 (AT PLATFORM LEVEL / M.	AINTENANCE CAGE)	
			HANDING:	LEFT HAND	(LH) (SWING	IN)			
DIMENSIONS	& DOOR/FRAME TYPE	B	950	x	2100	x	44mm		
			ST	DR	x	ST	FR		
			·						
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS					FINISH SPECIFICATIONS	
8	PCS	DOOR HINGE	FIRE RATE	BALL BEAR	NG HINGE; PE	R MANUF	ACTURER'S RECOMMENDATION	Ι Α	
2	SETS	DOOR PANIC HARDWARE	SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SII WITH LEVER ON PULL SIDE (GRADE 1); UL-LISTED, 3 HOURS FIRE RATIN NON-HANDED; W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE: PER MANUFACTURER'S RECOMMENDAT				D, 3 HOURS FIRE RATING; LY, BOLTS & OPTIONAL	А	
2	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION					А	
2	SETS	SETS MISCELLANEOUS ITEMS ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION				OTHER HARDWARE PER	А		
				_				×OR PER	
					Rev	riewed b	y NST en	MANUFACTURER'S SPECIFICATIONS	

SINGLE DOOR D1

LEGEND: DR DOOR FR FRAME DOOR/ FRAME MATERIAL: STEEL TYPE STAINLESS STEEL TYPE HARDWARE FINISH CODE: STAINLESS STEEL METAL, SATIN STEEL BASE METAL STAINLESS STEEL BASE METAL

CP01-B5-080_R1 NOTES: NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN

THE DOOR IS SECURED; FOR ESCAPE DOORS POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM

BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSID EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

ECCATION OF GENERAL			(EMERGENC		N	O. OF DOORS	: 2	
			ROOM NO.		EMERGENC	Y EXIT 2 & :	3 (AT PLATFORM LEVEL / MA	INTENANCE CAGE)
		HANDING:	RIGHT HAN	ID (RH) (SWIN	NG IN)			
DIMENSIONS & DOOR/FRAME TYPE:			950	x	2100	×	44mm	
		ST	DR	×	ST	FR		
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS				FINISH SPECIFICATIONS	
8	PCS	DOOR HINGE	FIRE RATED	BALL BEAR	ING HINGE; PI	ER MANUFA	CTURER'S RECOMMENDATION	Α
2	SETS	DOOR PANIC HARDWARE	SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); WITH LEVER ON PULL SIDE (GRADE 1); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE; PER MANUFACTURER'S RECOMMENDATION				А	

SINGLE DOOR D1

SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE SETS DOOR CLOSER ASSEMBLY RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER 2 SETS MISCELLANEOUS ITEMS Α MANUFACTURER'S RECOMMENDATION ×OR PER MANUFACTURER'S SPECIFICATIONS

This Drawing was originally prepared by JICA design jorge Müller team and reviewed/adjusted by NSTren Consortium Project Director

MANUFACTURER'S SPECIFICATIONS

HW SET:

DESIGN CONSULTANT

LOCATION OF OPENING:

VER	DATE	DESCRIPTION
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM



DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



JICA DETAILED DESIGN STUDY TEAM									
OCGLOBAL	ORIENTAL CONSULTANTS GLOBAL CO., LTD.	3							
Ka	KATAHIRA & ENGINEERS INTERNATIONAL		JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD						
②	PACIFIC CONSULTANTS CO., LTD.	Ť	TONICHI ENGINEERING CONSULTANTS INC.						

TITLE	JDT	SMEC
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CHECK	A. AIKAWA	N. HAMILTON
TEAM LEADER	N. MATSUMOTO	J. BARNES
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	DESIGNER CHECK TEAM LEADER	DESIGNER H. KISHI CHECK A. AIKAWA TEAM LEADER N. MATSUMOTO

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER OCTOBER 2017 RAILWAY PROJECT (MALOLOS-TUTUBAN) SCALE N/A DETAILED DESIGN SHEET No. CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE

SHEET 1

NSCR-DWG-CAL-AR-3371

HW SET:	1		05					
LOCATION OF OPENING:		DOUBLE DO	DOUBLE DOOR D2 NO. OF DOORS: 2					
			ROOM NO.	140	SUR			
				141	SER			
			HANDING:	LEFT HAND	REVERSE BE	VEL (LHR	B) ACTIVE (PAIR SWING OUT)	
DIMENSIONS	& DOOR/FRAME TYPE:		3050	×	3000	x	44mm	
			1000	x	2000	x	44mm (WICKET DOOR)	
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS					FINISH SPECIFICATIONS
16	PCS	DOOR HINGE (MAIN DOOR)	6" X 6" HEAVY DUTY LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION					А
6	PCS	DOOR HINGE (WICKET DOOR)		LOOSE-PIN E URER'S RECO			LL BEARING, GRADE 1; PER	А
4	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNC	TION CODE:	F95			630
				ECTED SINGLI G; PER MANU			DE 1, UL-LISTED, 3 HOURS NDATION	
4	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION				А	
DOOR COORDINATOR/DOOR SELECTOR DEVICE (A DOUBLE DOOR), STAINLESS STEEL THRESHOLDS CARD/ SECURITY (AS APPLICABLE) & OTHER HA MANUFACTURER'S RECOMMENDATION				S, ASTRAGAL, ACCESS	A			
							×OR PER MANUFACTURER SPECIFICATIONS	

HW SET:		06							
LOCATION OF OPENING:		SINGLE DOC	SINGLE DOOR D3 NO. OF DOORS: 1						
				141	SER				
			HANDING:	LEFT HANI) REVERSE (L	HR) (SWIN	G OUT)		
DIMENSION	IS & DOOR/FRAME TYPE	E(1525	x	2100	x	44mm		
			ST	DR	x	ST	FR		
QTY.	UNIT	ITEM TYPE		D	ETAILED ITEM	SPECIFIC	ATIONS	FINISH SPECIFICATIONS	
4	PCS	DOOR HINGE	6" X 6" HEAVY DUTY LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION					А	
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A					630	
					RADE 1, UL-LIS		OURS FIRE RATING; PER		
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION					A	
1 SET MISCELLANEOUS ITEMS				E) & OTHER I	SHOLDS, ACC HARDWARE PI		D/ SECURITY (AS FACTURER'S	A	
								×OR PER MANUFACTURER'S SPECIFICATIONS	

Project Director

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

LEGEND:						
DR	DOOR					
FR	FRAME					
DOOR/ FRAME MATERIAL:						
ST	STEEL TYPE					
SST	STAINLESS STEEL TYPE					
HARDWARE FIN	NISH CODE:					
630	STAINLESS STEEL METAL, SATIN					
Α	STEEL BASE METAL					
С	STAINLESS STEEL BASE METAL					

CP01-B5-081_R1 NOTES: NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING.

DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE

DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT

OUT OF ONE'S CONTROL REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET

DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDI EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

HW SET:		07								
LOCATION	I OF OPENING	:	DOUBLE DOO (LOUVER)	DR D4	NO). OF DOORS:	5			
			ROOM NO.	138	RAILWAY E	RAILWAY ELECTRICAL RM				
				142	DOMESTIC	WATER & TA	NK PUMP ROOM			
				147	FIRE WATE	R & TANK P	UMP ROOM			
			HANDING:	LEFT HAND	REVERSE B	EVEL (LHRB)	ACTIVE (PAIR SWING OUT)			
DIMENSIO	DIMENSIONS & DOOR/FRAME TYPE:		1850	x	2100	x	44mm			
				DR	x	ST	FR			
QTY.	UNIT	ITEM TYPE		DE	TAILED ITEN	1 SPECIFICAT	TIONS	FINISH SPECIFICATIONS		
40	PCS	DOOR HINGE		LOOSE-PIN E JRER'S RECOI	А					
5	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT	ION CODE:	F95			630		
				3 HOURS FIR			TIVE DOOR LEAF); GRADE 1, TURER'S			
5	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT	ION CODE:	_			630		
				KSET (AT OP R MANUFACT			UL-LISTED, 3 HOURS FIRE N			
10	SETS	DOOR CLOSER ASSEMBLY	RATING; NO	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION				А		
5	SETS	MISCELLANEOUS ITEMS		FLUSHBOLT, DWARE PER I			SHOLDS, ASTRAGAL, & 1MENDATION	А		
								×OR PER MANUFACTURER' SPECIFICATIONS		

VER	DATE	DESCRIPTION	
03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM	
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			Į į
			_ JK





JICA DETAILED DESIGN STUDY TEAM ORIENTAL CONSULTANTS GLOBAL CO., LTD.

PACIFIC CONSULTANTS CO., LTD.



DESIGN CONSULTANT

TITLE

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TEAM LEADER	N. MATSUMOTO	J. BARNES
PROJ. MANAGER	M. MIYATA M. WOYN	R. YUZON, JR.
	CHECK TEAM LEADER	CHECK A. AIKAWA

CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 2

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 SCALE N/A SHEET No.

NSCR-DWG-CAL-AR-3372

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HW SET:

HW SET:			08					
LOCATION OF	OPENING:		DOUBLE DO (LOUVER)	DOUBLE DOOR D4 (LOUVER)		. OF DOOR	S: 3	
			ROOM NO.	123	AFC ROOM			
				135	COMM UPS	RM		
			HANDING:	RIGHT HAN	D (RH) ACTIV	E (PAIR SV	VING IN)	
IMENSIONS & DOOR/FRAME TYPE:		1850	×	2100	x	44mm		
				DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS				FINISH SPECIFICATIONS
24	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION				A	
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95					630
			INTERCONN UL-LISTED, RECOMMENI					
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNC	TION CODE:	_			630
					PPOSITE DOOF URER'S RECO		1, UL-LISTED, 3 HOURS FIRE ION	
6	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION				А	
3	SETS	MISCELLANEOUS ITEMS					RESHOLDS, ASTRAGAL, & DMMENDATION	A
								×OR PER MANUFACTURER SPECIFICATIONS

			0,					
LOCATION OF	OPENING:		SINGLE DOO	R D5	NO	O. OF DOORS	5: 2	
			ROOM NO.	113	FIRST AID	R00M 1		
				121 GAD ROOM 1				
		HANDING:	RIGHT HAN	D (RH) (SWIN	G IN)			
DIMENSIONS & DOOR/FRAME TYPE:			1050	x	2100	x	44mm	
			ST	DR	×	ST	FR	
QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS				FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION				А	
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F76B					630
				,	, UL-LISTED, MMENDATION		FIRE RATING; PER	
2	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION				A	
2	SETS	MISCELLANEOUS ITEMS			SHOLDS, & O MMENDATION		DWARE PER	А
								×OR PER MANUFACTURER SPECIFICATIONS

Project Director

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME	MATERIAL:
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
HARDWARE FIN	IISH CODE:
630	STAINLESS STEEL METAL, SATIN
Α	STEEL BASE METAL
С	STAINLESS STEEL BASE METAL

CP01-B5-082_R1 NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO

PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://www.hagerco.com)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDI EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

HW SET:	10	10						
LOCATION OF OPENING:	SINGLE DOO	SINGLE DOOR D5). OF DOORS:	2			
	ROOM NO.	113	FIRST AID	R00M 2				
		121	GAD ROOM	2				
	HANDING:	HANDING: LEFT HAND (LH) (SWING IN)						
DIMENSIONS & DOOR/FRAME TYPE:	1050	×	2100	x	44mm			
	ST	DR	x	ST	FR			

QTY.	UNIT	ITEM TYPE	DE	TAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS		
8	PCS	DOOR HINGE		5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION			
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE:	F76B	630		
			PRIVACY LOCK; GRADE 1, MANUFACTURER'S RECOM				
2	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGI RATING; NON-HANDED; W MANUFACTURER'S RECOM	А			
2	SETS	MISCELL ANEOUS ITEMS	STAINLESS STEEL THRES MANUFACTURER'S RECOM	А			
					×OR PER MANUFACTURER'S SPECIFICATIONS		

VER	DATE	DESCRIPTION	
03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM	





JICA DETAILED DESIGN STUDY TEAM ORIENTAL CONSULTANTS



KATAHIRA & ENGINEERS ON CONSULTANTS FOR TRANSPORTATION CO., LTD TOMICHI ENGINEERING JAPAN INTERNATIONAL TONICHI ENGINEERING CONSULTANTS INC.

DESIGN CONSULTANT

TITLE	JDT	SMEC
DESIGNER	H. KISHI	A. ALLI
CHECK	A. AIKAWA	N. HAMILTON
TEAM LEADER	N. MATSUMOTO	J. BARNES
PROJ. MANAGER	M. MIYATA N. WOJO	R. YUZON, JR.
	DESIGNER CHECK TEAM LEADER	DESIGNER H. KISHI CHECK A. AIKAWA

CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 3

	DATE
THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER	OCTOBER 2017
RAILWAY PROJECT (MALOLOS-TUTUBAN)	SCALE N/A
DETAILED DESIGN	SHEET No.
	-
ΓΔΙ ΠΠΓΔΝ STATION	DRG No.

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HW SET:		11						
LOCATION OF OPENING:		SINGLE DOO	DR D5	NC). OF DOORS	2		
			ROOM NO.	112	CUSTOMER	SERVICE RM	11&2	
			HANDING:	RIGHT HAN	D (RH) (SWIN	G IN)		
DIMENSIONS & DOOR/FRAME TYPE:			1050	×	2100	x	44mm	
			ST	DR	x	ST	FR	
				'				
QTY.	UNIT	ITEM TYPE		DI	TAILED ITEN	1 SPECIFICAT	TIONS	FINISH SPECIFICATIONS
8	PCS	DOOR HINGE		' LOOSE-PIN E URER'S RECO			BEARING, GRADE 1; PER	A
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNC	TION CODE:	F82A			630
			ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION					
2	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION					А
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION				A	
								×OR PER MANUFACTURER'

HW SET:			12						
LOCATION	LOCATION OF OPENING:			DR D5	:S: 3				
			ROOM NO.	124	SECURITY	RM			
				145	STATION M	1ANAGER F	RM		
				146	OCS RM				
			HANDING:	RIGHT HAN	ID (RH) (SWIN	G IN)			
DIMENSIO	NS & DOOR/FRAME TYPE:	1050	х	2100	x	44mm			
			ST	DR	x	ST	FR		
QTY.	UNIT	ITEM TYPE		D	ETAILED ITEN	1 SPECIFICA	ATIONS	FINISH SPECIFICATIONS	
12	PCS	DOOR HINGE			BUTT HINGE, MMENDATION		LL BEARING, GRADE 1; PER	А	
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNC	TION CODE:	F82A			630	
					ADE 1, UL-LIS		IURS FIRE RATING; PER		
3	SETS	DOOR CLOSER ASSEMBLY	RATING; NO	OUNTED, REC N-HANDED; ' URER'S RECO	A				
3	SETS	MISCELLANEOUS ITEMS		E) & OTHER H	SHOLDS, ACC HARDWARE P)/ SECURITY (AS ACTURER'S	Α	
								*OR PER MANUFACTURER'S SPECIFICATIONS	

Reviewed by NST en

Joige Müller

Project Director

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

LEGEND:							
DR	DOOR						
FR	FRAME						
DOOR/ FRAME MATERIAL:							
ST	STEEL TYPE						
SST	STAINLESS STEEL TYPE						
HARDWARE FIN	NISH CODE:						
630	STAINLESS STEEL METAL, SATIN						
Α	STEEL BASE METAL						
С	STAINLESS STEEL BASE METAL						

NOTES: CP01-B5-083_R1

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING.

DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION,
TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN
THE DOOR IS SECURED; FOR ESCAPE DOORS

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE

DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT

OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET

DEADLOCKING LATCHBOLT (DEADLATCH) – INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

NO. OF DOORS: 1

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

			HANDING:	RIGHT HAND) (RH) (SWIN	1G IN)			
IMENSIONS	& DOOR/FRAME TYPE	1050	x	2100	x	44mm			
			ST	DR	x	ST	FR		
								FINISH	
QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS					
4	PCS	DOOR HINGE		5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION					
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT	630					
				ICE LOCK; GRA URER'S RECOM			URS FIRE RATING; PER		
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MO RATING; NON MANUFACTU	А					
1	SET	MISCELLANEOUS ITEMS		STEEL THRES URER'S RECOM			G, & OTHER HARDWARE PER	A	
								×OR PER MANUFACTURE SPECIFICATION	

13

SINGLE DOOR D5

ROOM NO. 133 STAFF ROOM

25 L										
Jared	/ER	DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION	DESIGN CONSULTANT				THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER	OCTOBER 2017
AD SI	02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM		JICA DETAILED DESIGN STUDY TEAM	TITLE	JDT	SMEC	RAILWAY PROJECT (MALOLOS-TUTUBAN)	SCALE N/A
)\sJe					ORIENTAL CONSULTANTS GLOBAL CO., LTD.	DESIGNER	H. KISHI	A. ALLI	DETAILED DESIGN	SHEET No.
:\Use				PHILIPPINE NATIONAL RAILWAYS	KATAHIRA & ENGINEERS JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO. LTD.	CHECK	A. AIKAWA	N. HAMILTON	CALOOCAN STATION	DRG No.
х эше					TRANSPORTATION GO., ETB.	TEAM LEADER	N. MATSUMOTO	J. BARNES	ARCHITECTURAL - SCHEDULE OF HARDWARE	NSCR-DWG-CAL-AR-3374
ilena		JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	CO LTD	PROJ. MANAGER	M. MIYATA M. WOTTO	R. YUZON, JR.	SHEET 4	02 REV		

HW SET:

LOCATION OF OPENING:

SPECIFICATIONS

HW SET:			17					
LOCATION OF	F OPENING:		SLIDING DO	OR D8	NO	. OF DOORS	: 2	
			ROOM NO.	118	PWD TOILE	TS 2 & 3		
			HANDING:	RIGHT HAN	D SLIDING DO	OR		
DIMENSIONS	& DOOR/FRAME TYPE	:	1050	x	2100	x	44mm	
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE		Di	TAILED ITEM	SDECIEICA	TIONS	FINISH SPECIFICATIONS
QII.	ONIT	HEHTTE	TOP HUNG S				D RAIL TRACK, SIDEWALL	TINISH SECULICATIONS
2	SETS	DOOR TRACK SYSTEM & ASSEMBLY	MOUNTED; N		RAIL DOOR	HANGERS (1 PAIR PER SET), BALL	Α
2	SETS	DOOR GUIDE	METAL BOT SPECIFICAT		1ANUFACTURER'S DESIGN &	А		
2	SETS	SUPPORT BRACKETS & ASSEMBLY		KET AT 500 M URER'S DESIG			SPACING, OR PER	Α
2	SETS	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUF	ACTURER'S [ESIGN & SPE	CIFICATION	s	Α
4	SETS	VERTICAL PULL HANDLE (BOTH SIDES)		STEEL DOOR (PULL SIDE)	PULL HANDL	E WITH PL	ATE; SURFACE MOUNT	630
			HANDLE: 42	25mmL x 16mm	DIAMETER x	48mm STA	NDOFF, 32mm CLEARANCE	
2	SETS	THUMBTURN (ACCESSIBLE) WITH OCCUPANCY INDICATOR	"VACANT")	DEADBOLT WITH OCCUPANCY INDICATOR ON OUTSIDE ("OCCUPIED" OR "VACANT"), ADA COMPLIANT, WITH EMERGENCY KEY, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION				630
2	SETS	MISCELLANEOUS ITEMS	BUMPER SH ROLLERS, J	IOES, DOOR B	UMPERS, BOL S, & OTHER H	TS, FASTE	SHOLDS, END STOP, NERS, ASTRAGALS, STAY PER MANUFACTURER'S	A
								×OR PER MANUFACTURER' SPECIFICATIONS

HW SET	·:		18					
OCATION	OCATION OF OPENING:		SLIDING DOOR D8 NO. OF DOORS: 2				2	
			ROOM NO.	118	PWD TOILE			
			HANDING:	1.14	SLIDING DOC			
IMENSION	IS & DOOR/FRAME TYPE		1050		2100		44mm	
				X		X CT		
			ST	DR	X	ST	FR	
QTY.	UNIT	ITEM TYPE		DE	TAILED ITEM	SPECIFICA	TIONS	FINISH SPECIFICATIONS
2	SETS	DOOR TRACK SYSTEM & ASSEMBLY	MOUNTED; N		RAIL DOOR	HANGERS (1	PAIL TRACK, SIDEWALL PAIR PER SET), BALL IFICATIONS	A
2	SETS	DOOR GUIDE	METAL BOT SPECIFICAT		MOUNTED G	JIDE; PER M	ANUFACTURER'S DESIGN &	А
2	SETS	SUPPORT BRACKETS & ASSEMBLY		ET AT 500 M JRER'S DESIG	SPACING, OR PER	А		
2	SETS	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUF	ACTURER'S D	ESIGN & SPE	CIFICATIONS	5	А
4	SETS	VERTICAL PULL HANDLE (BOTH SIDES)		STEEL DOOR (PULL SIDE)	PULL HANDL	E WITH PLA	TE; SURFACE MOUNT	630
			HANDLE: 42	5mmL x 16mm	DIAMETER x	48mm STA	NDOFF, 32mm CLEARANCE	
2	SETS	THUMBTURN (ACCESSIBLE) WITH OCCUPANCY INDICATOR	"VACANT"),	WITH OCCUPA ADA COMPLI ACTURER'S R	630			
2	SETS	MISCELLANEOUS ITEMS	OCCUPANCY INDICATOR, STAINLESS STEEL THRESHOLDS, END STOP, BUMPER SHOES, DOOR BUMPERS, BOLTS, FASTENERS, ASTRAGALS, STAY ROLLERS, JAMB LATCHES, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS			A		
		Reviewed by NST	en 🧷					×OR PER MANUFACTURER' SPECIFICATIONS

LEGEND: DR DOOR FR FRAME DOOR/ FRAME MATERIAL: STEEL TYPE STAINLESS STEEL TYPE HARDWARE FINISH CODE: STAINLESS STEEL METAL, SATIN STEEL BASE METAL STAINLESS STEEL BASE METAL

NOTES: NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, THE DOOR IS SECURED; FOR ESCAPE DOORS DOOR OPEN

TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN

CP01-B5-085_R1

POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

ANSI/BHMA	FUNCTION CODES FOR CYLI	NDRICAL AND MORTISE LOCKSETS
CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

HW SET:	19	19					
LOCATION OF OPENING:	SINGLE DOO (EMERGENC)		N	NO. OF DOORS: 6			
	ROOM NO.			EMERGENCY EXITS 1 & 4 RAMPS 2 & 3 (EMERGENCY EXIT)			
		PLATFORM AREA (TO EMERGENCY ST					
	HANDING:	LEFT HAND REVERSE (LHR) (SWING OUT)					
DIMENSIONS & DOOR/FRAME TYPE:	1050	x	2100	х	44mm		
	ST	DR	x	ST	FR		

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
24	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	Α
6	SETS	DOOR PANIC HARDWARE	SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); WITH LEVER ON PULL SIDE (GRADE 1); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE; PER MANUFACTURER'S RECOMMENDATION	А
6	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	Α
6	SETS	MISCELLANEOUS ITEMS	EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
				×OR PER MANUFACTURER'S SPECIFICATIONS

			Р	roject Director
VER	DATE	DESCRIPTION		
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM		
				THE REAL PROPERTY.
				JAK
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				JICA'

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

Joige Müller

This Drawing was originally prepared by JICA design

team and reviewed/adjusted by NSTren Consortium

JICA DETAILED DESIGN STUDY TEAM ORIENTAL CONSULTANTS GLOBAL CO., LTD.

PACIFIC CONSULTANTS CO., LTD.

JAPAN INTERNATIONAL KATAHIRA & ENGINEERS INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD. TEAM LEADER TONICHI ENGINEERING CONSULTANTS INC.

DESIGN CONSULTANT

TITLE JDT SMEC A. ALLI DESIGNER H. KISHI A. AIKAWA N. HAMILTON CHECK N. MATSUMOTO J. BARNES PROJ. MANAGER M. MIYATA M. WOJA R. YUZON, JR.

DETAILED DESIGN CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

OCTOBER 2017 SCALE N/A SHEET No.

NSCR-DWG-CAL-AR-3376

SHEET 6

HW SET: 20 LOCATION OF OPENING: SINGLE DOOR D9 NO. OF DOORS: 6 (EMERGENCY EXIT) ROOM NO. 103 EMERGENCY EXITS 2 & 3 117 RAMPS 1 & 4 (EMERGENCY EXIT) PLATFORM AREA (TO EMERGENCY STAIRS 1 & 4) HANDING: RIGHT HAND REVERSE (RHR) (SWING OUT) DIMENSIONS & DOOR/FRAME TYPE: 1050 ST DR ST FR QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION 24 PCS DOOR HINGE SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); WITH LEVER ON PULL SIDE (GRADE 1): UL-LISTED, 3 HOURS FIRE RATING: SETS DOOR PANIC HARDWARE NON-HANDED: W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE: PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING, NON-HANDED, WITH BACKCHECK AND DELAY ACTION, PER SETS DOOR CLOSER ASSEMBLY MANUFACTURER'S RECOMMENDATION EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, SETS MISCELLANEOUS ITEMS Α & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION HW SET: LOCATION OF OPENING: DOUBLE DOOR D10 NO. OF DOORS: 2 ROOM NO. 143 STN. ELE. RM HANDING: LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT) DIMENSIONS & DOOR/FRAME TYPE: 2050 2100 44mm ST DR ST FR QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 5" X 4 1/2" LOOSE-PIN HEAVY DUTY BUTT HINGE, STEEL, BALL BEARING, PCS DOOR HINGE GRADE 1, PER MANUFACTURER'S RECOMMENDATION CYLINDRICAL LEVER LOCKSET 4 SETS LOCK FUNCTION CODE: F95 630 INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE SETS DOOR CLOSER ASSEMBLY RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), STAINLESS STEEL THRESHOLDS, ASTRAGAL, ACCESS SET MISCELLANEOUS ITEMS CARD/ SECURITY (AS APPLICABLE) & OTHER HARDWARE PER HW SET: MANUFACTURER'S RECOMMENDATION LOCATION OF OPENING: HW SET: LOCATION OF OPENING: DOUBLE DOOR D10 NO. OF DOORS: 5 ROOM NO. 131 HALLWAY DIMENSIONS & DOOR/FRAME TYPE: 134 COMM RM 137 AFC LIPS RM HANDING: RIGHT HAND (RH) ACTIVE (PAIR SWING IN) DIMENSIONS & DOOR/FRAME TYPE: 2050 44mm ST DR ST FR ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS QTY. 5" X 4 1/2" LOOSE-PIN HEAVY DUTY BUTT HINGE, STEEL, BALL BEARING, 40 PCS DOOR HINGE Α GRADE 1; PER MANUFACTURER'S RECOMMENDATION 10 SETS CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F95 630 INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION, PER 10 SETS DOOR CLOSER ASSEMBLY MANUFACTURER'S RECOMMENDATION DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), STAINLESS STEEL THRESHOLDS, ASTRAGAL, ACCESS SETS MISCELLANEOUS ITEMS Α CARD/ SECURITY (AS APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION ***OR PER MANUFACTURER'S** SPECIFICATIONS

LEGEND: DR DOOR FR FRAME DOOR/ FRAME MATERIAL: STEEL TYPE STAINLESS STEEL TYPE HARDWARE FINISH CODE STAINLESS STEEL METAL, SATIN STEEL BASE METAL STAINLESS STEEL BASE METAL

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR FITHER A RIGHT-HAND OR LEFT-HAND SWING DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN

CP01-B5-086_R1

THE DOOR IS SECURED; FOR ESCAPE DOORS POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO

NO. OF DOORS: 2

LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)

CLEANER'S RM

STORAGE

PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

ANSI/BHMA	FUNCTION CODES FOR CYLI	INDRICAL AND MORTISE LOCKSETS
CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

DIMENSIO	NS & DOOR/FRAME TYPE:		2050 x 2100 x 44mm					
	ST DR x ST FR							
QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS				FINISH SPECIFICATIONS
16	PCS	DOOR HINGE		5" X 4 1/2" LOOSE-PIN HEAVY DUTY BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION				A
4	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTI	LOCK FUNCTION CODE: F86				630
			STOREROOM FIRE RATING			•	DE 1, UL-LISTED, 3 HOURS DATION	
4	SETS	DOOR STOP	MAGNETIC DOORSTOP WITH CATCH SCREW MOUNT			630		
2	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, ASTRAGAL, PEST PROOFING, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION A				A	
								OD DED MANITEACTUDED'S

136

139

23

ROOM NO.

HANDING:

DOUBLE DOOR D10



JDT

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

SMEC

VER	DATE	DESCRIPTION	
03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM	
			ı

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES

PHILIPPINE NATIONAL RAILW

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PPINES	JICA D	ETAILED DESIGN S	STUDY	TEAM
VAYS	OCGLOBAL	ORIENTAL CONSULTANTS GLOBAL CO., LTD.	5	
VATS	Ke	KATAHIRA & ENGINEERS INTERNATIONAL		JAPAN IN CONSULT

KATAHIRA & ENGINEERS CONSUI INTERNATIONAL CONSUITANSI PACIFIC CONSULTANTS

	DESIGNER	H. KISHI	A. ALLI
INTERNATIONAL JLTANTS FOR	CHECK	A. AIKAWA	N. HAMILTON
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JLTANTS INC.	PROJ. MANAGER	M. MIYATA N. WOYN	R. YUZON, JR.
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DESIGN CONSULTANT

TITLE

CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 7

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

N/A SHEET No. NSCR-DWG-CAL-AR-3377

OCTOBER 2017

03

SPECIFICATIONS

SCALE

MARINDO-C8 / 04 Jul 2018 s\CAD Shared\20180323_

HW SET:

HW SET:			05					
OCATION OF OPENING:		SINGLE DOO	SINGLE DOOR D3		NO. OF DOORS: 1			
			ROOM NO.	141	SER			
			HANDING:	LEFT HAND	REVERSE (L	HR) (SWING	OUT)	
DIMENSIONS & DOOR/FRAME TYPE:		1525	х	2100	x	44mm		
			ST	DR	×	ST	FR	
							1	
QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS				
4	PCS	DOOR HINGE		6" X 6" HEAVY DUTY LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION				
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT	ION CODE:	F82A			630
				ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION				
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION			А		
1 SET MISCELLANEOUS ITEMS			E) & OTHER HA	•		SECURITY (AS CTURER'S	А	
								×OR PER MANUFACTURER SPECIFICATIONS

IIW JL	1 •		00					
LOCATION	N OF OPENING:		DOUBLE DO	OR D4	NO.	OF DOORS	2	
			ROOM NO.	135	COMM UPS	RM		
				138	RAILWAY E	LECTRICAL	. RM	
			HANDING:	RIGHT HAN	D (RH) ACTIV	E (PAIR SW	ING IN)	
DIMENSIO	NS & DOOR/FRAME TYPE	:	1850	×	2100	x	44mm	
			ST	DR	×	ST	FR	
QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS				FINISH SPECIFICATIONS
16	PCS	DOOR HINGE		4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION				А
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNC	LOCK FUNCTION CODE: F95				630
				3 HOURS FIRE			CTIVE DOOR LEAF); GRADE 1, CTURER'S	
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNC	LOCK FUNCTION CODE: —				630
				KSET (AT OPI R MANUFACTI			, UL-LISTED, 3 HOURS FIRE ON	
4	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION			A		
2	SETS	MISCELLANEOUS ITEMS		FLUSHBOLT, DWARE PER N			ESHOLDS, ASTRAGAL, & MMENDATION	Α
								×OR PER MANUFACTURER'S SPECIFICATIONS



This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME	MATERIAL:
ST	STEEL TYPE
SST HARDWARF FIN	STAINLESS STEEL TYPE
630	STAINLESS STEEL METAL, SATIN
Α	STEEL BASE METAL
С	STAINLESS STEEL BASE METAL

HW SET:

LOCATION OF OPENING:

CP01-B6-601_R1 NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE

DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN

POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET

DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

NO. OF DOORS: 1

LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)

WATER PUMP & TANK RM

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://www.hagerco.com)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDI EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

IIMENSIONS & DOOR/FRAME TYPE:		1850	x	2100	x	44mm		
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS				FINISH SPECIFICATIONS	
8	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION				A	
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95				630	
			INTERCONNEC UL-LISTED, 3 RECOMMENDA	HOURS FIRE			CTIVE DOOR LEAF); GRADE 1 CTURER'S	,
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTI	ON CODE:	_			630
			DUMMY LOCK RATING; PER				1, UL-LISTED, 3 HOURS FIRE ON	
2	SETS	DOOR CLOSER ASSEMBLY		-HANDED; W	ITH BACKCH	ECK AND D	UL-LISTED, 3 HOURS FIRE ELAY ACTION; PER	A
1	SET	MISCELLANEOUS ITEMS		•			RESHOLDS, ASTRAGAL, & DIMMENDATION	А
								×OR PER MANUFACTURER SPECIFICATIONS

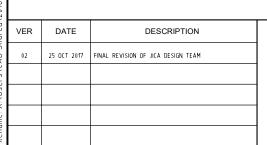
07

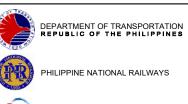
ROOM NO.

HANDING:

DOUBLE DOOR D4 (LOUVER)

149







JICA DETAILED DESIGN STUDY TEAM ORIENTAL CONSULTANTS GLOBAL CO., LTD.



<u></u>	JAPAN INTERNATIONAL CONSULTANTS FOR
	TRANSPORTATION CO., LTD. TONICHI ENGINEERING CONSULTANTS INC.

DESIGN CONSULTANT

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	DESIGNER	H. KISHI	A. ALLI
	CHECK	A. AIKAWA	N. HAMILTON
D.	TEAM LEADER	N. MATSUMOTO	J. BARNES
	PROJ. MANAGER	M. MIYATA N. WOYN	R. YUZON, JR.

BOCAUE STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 2

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER OCTOBER 2017 SCALE N/A SHEET No.

eneral Bid	
ulletin No.	8,
nnex F-17	

HW SET:

2

LOCATION OF OPENING:

HW SET: 08 LOCATION OF OPENING: SINGLE DOOR D5 NO. OF DOORS: 1 ROOM NO. 113 FIRST AID ROOM HANDING: RIGHT HAND (RH) (SWING IN) DIMENSIONS & DOOR/FRAME TYPE: 1050 2100 x 44mm ST DR ST FR FINISH SPECIFICATIONS QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER PCS DOOR HINGE MANUFACTURER'S RECOMMENDATION SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F76B 630 1 PRIVACY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE SET 1 DOOR CLOSER ASSEMBLY RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER 1 SET MISCELLANEOUS ITEMS MANUFACTURER'S RECOMMENDATION ×OR PER MANUFACTURER'S SPECIFICATIONS

LOCATION OF	OCATION OF OPENING:		SINGLE DOO	R D5	NO.	OF DOORS	5: 2	
			ROOM NO.	146	OCS RM			
				147	SECURITY	RM		
			HANDING:	LEFT HAND	(LH) (SWING	IN)		
DIMENSIONS	& DOOR/FRAME TYPE	:	1050	x	2100	x	44mm	
			ST	DR	×	ST	FR	
			·					
QTY.	UNIT	ITEM TYPE		DE	TAILED ITEM	SPECIFICA	TIONS	FINISH SPECIFICATIONS
8	PCS	DOOR HINGE		LOOSE-PIN B JRER'S RECOM		•	L BEARING, GRADE 1; PER	А
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT	TION CODE:	F82A			630
				ICE LOCK GRA JRER'S RECOM			JRS FIRE RATING; PER	
2	SETS	DOOR CLOSER ASSEMBLY		•			UL-LISTED, 3 HOURS FIRE ELAY ACTION; PER	А

MANUFACTURER'S RECOMMENDATION

STAINLESS STEEL THRESHOLDS, ACCESS CARD/ SECURITY (AS

APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S

09

HW SET:	10	10				
LOCATION OF OPENING:	SINGLE DOOR	R D5	NO.	OF DOORS	1	
	ROOM NO.	112	CUSTOMER	SERVICE R	RM, POS (3) ENT, POS (2) EX	
	HANDING:	RIGHT HAN	D (RH) (SWIN	G IN)		
DIMENSIONS & DOOR/FRAME TYPE:	1050	x	2100	×	44mm	
	ST	DR	x	ST	FR	

RECOMMENDATION

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A	630
			ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	A
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
				×OR PER MANUFACTURER'S SPECIFICATIONS

LEGEND: DR DOOR FR FRAME DOOR/ FRAME MATERIAL: STEEL TYPE STAINLESS STEEL TYPE HARDWARE FINISH CODE: STAINLESS STEEL METAL, SATIN STEEL BASE METAL STAINLESS STEEL BASE METAL

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

CP01-B6-602_R1

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO

PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

ANSI/BHMA CYLINDRICAL		
LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

HW SET:	11	11				
LOCATION OF OPENING:	SINGLE DOO	SINGLE DOOR D5		NO. OF DOORS: 1		
	ROOM NO.	133	STATION S	TAFF RM	PANTRY	
	HANDING:	RIGHT HAND REVERSE (RHR) (SWING OUT)			IG OUT)	
DIMENSIONS & DOOR/FRAME TYPE:	1050	x	2100	х	44mm	
	ST	DR	×	ST	FR	

QTY.	UNIT	ITEM TYPE	DET	CAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BU MANUFACTURER'S RECOM	JTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MENDATION	A
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE:	F82A	630
			ENTRY/OFFICE LOCK; GRA MANUFACTURER'S RECOM	DE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MENDATION	
1	SET	DOOR CLOSER ASSEMBLY	·	LAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE TH BACKCHECK AND DELAY ACTION; PER MENDATION	А
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESI MANUFACTURER'S RECOM	HOLDS, PEST PROOFING, & OTHER HARDWARE PER MENDATION	A
		Reviewed by NST en			×OR PER MANUFACTURER'S SPECIFICATIONS

joige Müller Project Director

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

VER	DATE	DESCRIPTION
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM

SETS

MISCELLANEOUS ITEMS

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA DETAILED DESIGN STUDY TEAM ORIENTAL CONSULTANTS PACIFIC CONSULTANTS CO., LTD.

JAPAN INTERNATIONAL KATAHIRA & ENGINEERS CONSULTANTS FOR TRANSPORTATION CONSULTANTS OF TONICHI ENGINEERING CONSULTANTS INC.

×OR PER MANUFACTURER'S SPECIFICATIONS

> TITLE DESIGNER H. KISHI A. ALLI A. AIKAWA N. HAMILTON CHECK TRANSPORTATION CO., LTD. TEAM LEADER N. MATSUMOTO J. BARNES PROJ. MANAGER M. MIYATA M. MOTO R. YUZON, JR. 🦳

DESIGN CONSULTANT

BOCAUE STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 3

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER OCTOBER 2017 SCALE N/A SHEET No.

12 HW SET: LOCATION OF OPENING: SINGLE DOOR D6 NO. OF DOORS: 1 ROOM NO. 132 STAFF TOILET 2 (FEMALE) HANDING: LEFT HAND (LH) (SWING IN) DIMENSIONS & DOOR/FRAME TYPE: 2100 x 44mm ST DR ST FR UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 5" X & 1/2" LOOSE_PIN BUTT HINGE STEEL BALL REARING GRADE 1. PER

HW SF	T:		13	
				×OR PER MANUFACTURER'S SPECIFICATIONS
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	A
			PRIVACY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F76B	630
4	PCS	DOOR HINGE	MANUFACTURER'S RECOMMENDATION	A

HW SET:	13	13						
LOCATION OF OPENING:	SINGLE DOOR	R D6	NO.	OF DOORS	3			
	ROOM NO.	121	GAD RM	AD RM				
		122	BFR RM					
		132	STAFF TOI	LET 1 (MALI	Ε)			
	HANDING:	RIGHT HAND	(RH) (SWIN	G IN)				
DIMENSIONS & DOOR/FRAME TYPE:	950	×	2100	x	44mm			
	ST	DR	×	ST	FR			

(QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
	12	PCS	DOOR HINGE	$5^{\prime\prime}$ X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PE MANUFACTURER'S RECOMMENDATION	R A
	3	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F76B	630
				PRIVACY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
	3	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FII RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	RE A
	3	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	Α
					×OR PER MANUFACTURER'S SPECIFICATIONS

HW SET:	14	14						
LOCATION OF OPENING:	SINGLE DOOR	D7 NO. OF DOORS: 1		OF DOORS	5: 1			
	ROOM NO.	123	STORAGE					
	HANDING:	RIGHT HAND	(RH) (SWING	G IN)				
DIMENSIONS & DOOR/FRAME TYPE:	750	×	2100	x	44mm			
	ST	DR	x	ST	FR			

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
3	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F86	630
			STOREROOM / CLOSET / VESTIBULE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
1	SET	DOOR STOP	MAGNETIC DOORSTOP WITH CATCH SCREW MOUNT	630
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, PEST PROOFING, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
				×OR PER MANUFACTURER'S

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME	MATERIAL:
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
HARDWARE FIN	IISH CODE:
630	STAINLESS STEEL METAL, SATIN
Α	STEEL BASE METAL
С	STAINLESS STEEL BASE METAL

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

CP01-B6-603_R1

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO

PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSID EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

HW SET:	15	15					
LOCATION OF OPENING:	SINGLE DOOR	SINGLE DOOR D7			2		
	ROOM NO.	123	STORAGE				
		150 J		JANITOR SINK			
	HANDING:	LEFT HAND	(LH) (SWING IN)				
DIMENSIONS & DOOR/FRAME TYPE:	750	x	2100	x	44mm		
	ST	DR	x	ST	FR		

QTY.	UNIT	ITEM TYPE	DE-	DETAILED ITEM SPECIFICATIONS			
6	PCS	DOOR HINGE	·	4 1/2" X 4" BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION			
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE:	F86	630		
				VESTIBULE LOCK; GRADE 1, UL-LISTED, 3 HOURS ACTURER'S RECOMMENDATION			
2	SETS	DOOR STOP	MAGNETIC DOORSTOP WIT	TH CATCH SCREW MOUNT	630		
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRES MANUFACTURER'S RECOM	HOLDS, PEST PROOFING, & OTHER HARDWARE PER MENDATION	А		
					×OR PER		
	F	Reviewed by NSTren			MANUFACTURER'S		
i					SPECIFICATIONS		

joige Müller Project Director

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

VER	DATE	DESCRIPTION
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES PHILIPPINE NATIONAL RAILWAYS



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

ORIENTAL CONSULTANTS PACIFIC CONSULTANTS CO., LTD.

JICA DETAILED DESIGN STUDY TEAM

INTERNATIONAL

JAPAN INTERNATION CO., LTD.
TRANSPORTATION CO., LTD.
TEAM LEADER

TEAM LEADER JAPAN INTERNATIONAL TONICHI ENGINEERING CONSULTANTS INC.

DESIGN CONSULTANT

TITLE JDT SMEC DESIGNER H. KISHI A. ALLI A. AIKAWA N. HAMILTON CHECK N. MATSUMOTO J. BARNES PROJ. MANAGER M. MIYATA M. WOTH R. YUZON, JR. THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN) DETAILED DESIGN

BOCAUE STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 4

OCTOBER 2017 SCALE N/A SHEET No.

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HW SET:			16					
LOCATION OF	OPENING:		SLIDING DOO	DR D8	NO. OF DOORS:		5: 1	
			ROOM NO.	118	PWD TOILE	T 1		
			HANDING:	RIGHT HAN	D SLIDING DO	OR		
DIMENSIONS	& DOOR/FRAME TYPE	E:	1050	×	2100	x	44mm	
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE		ne	TAILED ITEM	CDECIEIC /	TIONS	FINISH SPECIFICATIONS
uii.	UNIT	HENTIFE	TOD HING S				ID RAIL TRACK, SIDEWALL	FINISH SPECIFICATIONS
1	SET	DOOR TRACK SYSTEM & ASSEMBLY	MOUNTED; M	IETAL ROUND		HANGERS	(1 PAIR PER SET), BALL	A
1	SET	DOOR GUIDE	METAL BOTTOM / FLOOR MOUNTED GUIDE; PER MANUFACTURER'S DESIGN & SPECIFICATIONS					A
1	SET	SUPPORT BRACKETS & ASSEMBLY		RAIL BRACKET AT 500 MM - 600 MM ON CENTER SPACING, OR PER MANUFACTURER'S DESIGN & SPECIFICATIONS				
1	SET	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUF	ACTURER'S D	ESIGN & SPE	CIFICATION	15	A
2	SETS	VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS VISIBLE FIX		PULL HANDL	E WITH PL	ATE; SURFACE MOUNT	630
			HANDLE: 42	5mmL x 16mm	DIAMETER x	48mm ST	ANDOFF, 32mm CLEARANCE	
1	SET	THUMBTURN (ACCESSIBLE) WITH OCCUPANCY INDICATOR	"VACANT"),	DEADBOLT WITH OCCUPANCY INDICATOR ON OUTSIDE ("OCCUPIED" OR "VACANT"), ADA COMPLIANT, WITH EMERGENCY KEY, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION				630
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, END STOP, BUMPER SHOES, DOOR BUMPERS, BOLTS, FASTENERS, ASTRAGALS, STAY ROLLERS, JAMB LATCHES, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS			А		
								×OR PER MANUFACTURER SPECIFICATIONS

HW SET:			17					
LOCATION	OF OPENING:		SLIDING DOOR D8 NO. OF DOORS: 1				: 1	
			ROOM NO.	118	PWD TOILE	T 2		
			HANDING:	LEFT HAND	SLIDING DOC	R		
DIMENSION	IMENSIONS & DOOR/FRAME TYPE:		1050	×	2100	x	44mm	
			ST	DR	x	ST	FR	
2.57		17511 71105					- 10.110	
QTY.	UNIT	ITEM TYPE			TAILED ITEM			FINISH SPECIFICATIONS
1	SET	DOOR TRACK SYSTEM & ASSEMBLY	MOUNTED; M		RAIL DOOR I	HANGERS (D RAIL TRACK, SIDEWALL 1 PAIR PER SET), BALL CIFICATIONS	A
1	SET	DOOR GUIDE	METAL BOT	TOM / FLOOR ONS	А			
1	SET	SUPPORT BRACKETS & ASSEMBLY		ET AT 500 MN RER'S DESIGN	Α			
1	SET	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUF	ACTURER'S DI	ESIGN & SPE	CIFICATION	IS	А
2	SETS	VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS VISIBLE FIX		PULL HANDL	E WITH PL	ATE; SURFACE MOUNT	630
			HANDLE: 425	5mmL x 16mm	DIAMETER x	48mm ST	ANDOFF, 32mm CLEARANCE	
1	SET	THUMBTURN (ACCESSIBLE) WITH OCCUPANCY INDICATOR	DEADBOLT WITH OCCUPANCY INDICATOR ON OUTSIDE ("OCCUPIED" OR "VACANT"), ADA COMPLIANT, WITH EMERGENCY KEY, 3 HOURS FIRE RATING: PER MANUFACTURER'S RECOMMENDATION				630	
1 SET		MISCELLANEOUS ITEMS	BUMPERS, B	OLTS, FASTE OTHER HARD	NERS, ASTR	AGALS, ST	MPER SHOES, DOOR FAY ROLLERS, JAMB URER'S DESIGN &	А
			Reviewed	hy NSTean				×OR PER MANUFACTURER'S SPECIFICATIONS

joige Müller Project Director This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME	MATERIAL:
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
HARDWARE FIN	NSH CODE:
630	STAINLESS STEEL METAL, SATIN
А	STEEL BASE METAL
С	STAINLESS STEEL BASE METAL

NOTES:	CP01-B6-604_R1
NON-HANDED - THE HARDWARE CAN BE APPLIED	FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING.
	THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, INTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN
POSITIVE LATCHING - ACTIVE LATCHBOLT TO PRE	VENT PRESSURE CAUSED BY FIRE FROM PUSHING THE

DOOR OPEN
BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO

PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

> NO. OF DOORS: 6 RAMPS 1 & 2 (EMERGENCY EXIT)

EMERGENCY EXIT 1

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://www.hagerco.com)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109 ENTRY		DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90 CORRIDOR, DORMITORY INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY		DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
		LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDI EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

				142	EMERGENC'	EMERGENCY EXIT STAIR 2			
					FIRE EXIT S	STAIRS 1			
			HANDING:	HANDING: LEFT HAND REVERSE (LHR) (SWING OUT)					
IMENSIONS &	MENSIONS & DOOR/FRAME TYPE:			x	2100	x	44mm		
		ST	DR	x	ST	FR			
QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS				FINISH SPECIFICATION	
24	PCS	DOOR HINGE	FIRE RATEC	BALL BEARIN	IG HINGE; PE	R MANUF	ACTURER'S RECOMMENDATION	Α	
6	SETS	DOOR PANIC HARDWARE	WITH LEVER	SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); WITH LEVER ON PULL SIDE (GRADE 1); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE: PER MANUFACTURER'S RECOMMENDATION			A		
6	SETS	DOOR CLOSER ASSEMBLY	RATING; NO	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING, NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION				А	
6	SETS	MISCELLANEOUS ITEMS					INLESS STEEL THRESHOLDS, ECOMMENDATION	Α	
								×OR PER MANUFACTURE SPECIFICATION	

18

SINGLE DOOR D9 (EMERGENCY EXIT)

> 117 103

ROOM NO.

/ER	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTAT
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM		REPUBLIC OF THE PHILIPPI
			FR	PHILIPPINE NATIONAL RAILWAYS
			jica	JAPAN INTERNATIONAL COOPERATION AGENC

PORTATION	
ILIPPINES	JIC
AILWAYS	oce V
ION AGENCY (JICA)	

CA DETAILED DESIGN STUDY TEAM ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL PACIFIC CONSULTANTS
CO., LTD.

		DESIGNER	Н.	KISHI			A.	ALL
	JAPAN INTERNATIONAL CONSULTANTS FOR	CHECK	A.	AIKAWA			Ν.	HAI
TRANSPO	RTATION CO., LTD.	TEAM LEADER	N.	MATSUMOT	0		J.	BAK
	OONOUL TANTO INO	PROJ. MANAGER	M.	MIYATA	Μ.	logh	R.	YUZ

DESIGN CONSULTANT

HW SET:

LOCATION OF OPENING:

	TITLE	JDT	SMEC
	DESIGNER	H. KISHI	A. ALLI
	CHECK	A. AIKAWA	N. HAMILTON
D.	TEAM LEADER	N. MATSUMOTO	J. BARNES
	PROJ. MANAGER	M. MIYATA N. WOJO	R. YUZON, JR.

DETAILED DESIGN BOCAUE STATION
ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 5

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN) SCALE N/A SHEET No. NSCR-DWG-BOC-AR-3375

OCTOBER 2017

19 HW SET: LOCATION OF OPENING: SINGLE DOOR D9 (EMERGENCY EXIT) NO. OF DOORS: 4 ROOM NO. EMERGENCY EXIT 2 142 EMERGENCY EXIT STAIR 1 FIRE EXIT STAIRS 2 & 3 (PLATFORM) HANDING: RIGHT HAND REVERSE (RHR) (SWING OUT) DIMENSIONS & DOOR/FRAME TYPE: 1050 44mm ST DR ST FR

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
16	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	A
4	SETS	DOOR PANIC HARDWARE	SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); WITH LEVER ON PULL SIDE (GRADE 1); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE; PER MANUFACTURER'S RECOMMENDATION	A
4	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	A
4	4 SETS MISCELLANEOUS ITEMS		EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				×OR PER MANUFACTURER'S SPECIFICATIONS
HW SET:			20	

ı							SPECIFICATIONS		
ı	HW SET:	20							
ı	LOCATION OF OPENING:	DOUBLE DOOR D10			NO. OF DOORS	6			
ı		ROOM NO.	124	AFC ROOM					
ı			131	HALLWAY					
ı			134	COMM RM					
J			137	AFC UPS RM					
1			144	BMS RM					
ı			145	STATION MANAGER RM					
ı		HANDING:	RIGHT HAND (RH) A	CTIVE (SWING IN)					
ı	DIMENSIONS & DOOR/FRAME TYPE:	2050	x	2100	×	44mm			
١		ST	DR	x	ST	FR			

QTY.	UNIT	ITEM TYPE		FINISH SPECIFICATIONS	
48	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN HEAVY DUTY BU RECOMMENDATION	А	
12	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE:	F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY RECOMMENDATION		
12	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PUL BACKCHECK AND DELAY ACTION; PER MA	L SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH NUFACTURER'S RECOMMENDATION	Α
6	SETS	MISCELLANEOUS ITEMS	DOOR COORDINATOR/DOOR SELECTOR DE THRESHOLDS, ASTRAGAL, ACCESS CARD MANUFACTURER'S RECOMMENDATION	A	
					×OR PER MANUFACTURER'S SPECIFICATIONS

								SPECIFICATIONS		_
HW S	ET:		21						QTY.	
LOCATION OF OPENING:		DOUBLE DOOR D	10		NO. OF DOOF	RS: 2		8		
			ROOM NO.	136	CLEANER'S RM				2	T
				139	STO. RM					T
			HANDING:	RIGHT HAND (RH)	ACTIVE (SWING IN)					+
DIMENSIONS & DOOR/FRAME TYPE:		R/FRAME TYPE:	2050	x	2100	x	44mm		2	
			ST	DR	x	ST	FR			+
QTY.	UNIT	ITEM TYPE			DETAILED ITEM SPI	ECIFICATIONS		FINISH SPECIFICATIONS	1	
16	PCS	DOOR HINGE	5" X 4 1/2" LOOS RECOMMENDATIO		BUTT HINGE, STEEL, B	ALL BEARING, G	RADE 1; PER MANUFACTURER'S	A	'	
4	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION	CODE:	F86			630		
				STOREROOM / CLOSET / VESTIBULE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION						
4	SETS	DOOR STOP	MAGNETIC DOOR	STOP WITH CATCH SCR	REW MOUNT			630		
2 SETS MISCELLANEOUS ITEMS STAINLESS STEEL THRESHOLDS, ASTRAGAL, PERCOMMENDATION				RAGAL, PEST PROOFIN	NG, & OTHER HAI	RDWARE PER MANUFACTURER'S	A			
								×OR PER MANUFACTURER'S SPECIFICATIONS		
VER	DATE	DESCRIPTION	£	A CONTRACTOR OF THE PARTY OF TH				DESIGN CONS	SULTAN	T

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME	MATERIAL:
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
HARDWARE FIN	IISH CODE:
630	STAINLESS STEEL METAL, SATIN
Α	STEEL BASE METAL
С	STAINLESS STEEL BASE METAL

NOTES:

UNAUTHORIZED ENTRY.

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

CP01-B6-605_R1

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO

ANSI/BHMA FUNCTION CODES FOR CYLINDRICAL AND MORTISE LOCKSETS						
CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)				
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.				
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.				
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.				
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.				
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.				
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.				
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.				

HW SE1	HW SET: 22							
LOCATION	LOCATION OF OPENING:		DOUBLE DOO	DOUBLE DOOR D10			NO. OF DOORS: 1	
		ROOM NO.	143	STN. ELE. I	RM			
			HANDING:	LEFT HAND	REVERSE BI	EVEL (LHRB) ACTIVE (SWING OUT)	
DIMENSION	DIMENSIONS & DOOR/FRAME TYPE:		2050	x	2100	x	44mm	
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE		DE	TAILED ITEM	1 SPECIFICA	TIONS	FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN HEAVY DUTY BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION					A
					I			

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN HEAVY DUTY BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
2	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	A
1	SET	MISCELLANEOUS ITEMS	DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), STAINLESS STEEL THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY (AS APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
		Reviewed by NST en		×OR PER MANUFACTURER'S SPECIFICATIONS

jorge Müller Project Director

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

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DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA DETAILED DESIGN STUDY TEAM

ORIENTAL CONSULTANTS

PACIFIC CONSULTANTS CO., LTD.

JAPAN INTERNATIONAL KATAHIRA & ENGINEERS INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD. TEAM LEADER TONICHI ENGINEERING CONSULTANTS INC.

TITLE JDT SMEC DESIGNER H. KISHI A. ALLI A. AIKAWA N. HAMILTON CHECK N. MATSUMOTO J. BARNES PROJ. MANAGER M. MIYATA M. WOTH R. YUZON, JR.

BOCAUE STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 6

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 SCALE N/A SHEET No.

NSCR-DWG-BOC-AR-3376

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23 HW SET: LOCATION OF OPENING: SINGLE DOOR D11 NO. OF DOORS: 1 DIST. BRD. RM RIGHT HAND (RH) (SWING IN) HANDING: DIMENSIONS & DOOR/FRAME TYPE: 1050 2100 x 44mm ST DR ST FR

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	A
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, WEATHERSTRIP, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				*OR PER MANUFACTURER'S SPECIFICATIONS

HW SET:	24	4				
LOCATION OF OPENING:	SINGLE DOOF	R D11	NO.	OF DOORS:	1	
	ROOM NO.	109	MAINTENAI	NCE SHOP		
	HANDING:	LEFT HAND	(LH) (SWING	IN)		
DIMENSIONS & DOOR/FRAME TYPE:	1050	x	2100	×	44mm	
	ST	DR	x	ST	FR	

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	А
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, WEATHERSTRIP, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	Α
				×OR PER MANUFACTURER'S SPECIFICATIONS

HW SET:	25	25					
LOCATION OF OPENING:	SINGLE DOO (LOUVER)	SINGLE DOOR D12 (LOUVER)		OF DOOR	i: 3		
	ROOM NO.	149	WATER PU	MP & TAN	K RM		
		203 E					
	HANDING:	LEFT HAND	REVERSE (LI	HR) (SWIN	5 OUT)		
DIMENSIONS & DOOR/FRAME TYPE:	1050	x	2100	×	44mm		
	ST	DR	x	ST	FR		

			21	DΚ	X	\$1	FR	
QTY.	UNIT	ITEM TYPE		DE1	TAILED ITEM	SPECIFICA	TIONS	FINISH SPECIFICATIONS
12	PCS	DOOR HINGE		" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER ANUFACTURER'S RECOMMENDATION				Α
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION	ON CODE:	F95			630
			INTERCONNEC FIRE RATING;				E 1, UL-LISTED, 3 HOURS DATION	
3	SETS	DOOR CLOSER ASSEMBLY	RATING; NON-	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION				Α
3	SETS	MISCELLANEOUS ITEMS		STAINLESS STEEL THRESHOLDS, WEATHERSTRIP, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION				А
								×OR PER MANUFACTURER' SPECIFICATIONS

LEGEND: DR DOOR FR FRAME DOOR/ FRAME MATERIAL: STEEL TYPE STAINLESS STEEL TYPE HARDWARE FINISH CODE: STAINLESS STEEL METAL, SATIN STEEL BASE METAL STAINLESS STEEL BASE METAL

NOTES:

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS

CP01-B6-606_R1

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN

POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET

DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F109	ENTRY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE, EXCEPT WHEN TURN BUTTON LOCKS OUTSIDE LEVER. PUSHING TURN BUTTON IN LOCKS OUTSIDE LEVER, REQUIRING USE OF KEY OUTSIDE TO UNLOCK. TURNING INSIDE LEVER UNLOCKS OUTSIDE LEVER. PUSHING IN AND TURNING BUTTON LOCKS OUTSIDE LEVER, REQUIRING KEY AT ALL TIMES. TURNING INSIDE LEVER DOES NOT UNLOCK OUTSIDE LEVER UNTIL BUTTON IS MANUALLY TURNED TO UNLOCKED POSITION. INSIDE LEVER ALWAYS FREE.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDIESTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

HW SET: LOCATION OF OPENING:

This Drawing was originally prepared by JICA design Reviewed by NSTren team and reviewed/adjusted by NSTren Consortium

SINGLE DOOR D12 Joige Müller NO. OF DOORS: 3 (LOUVER) Project Director ROOM NO. WATER PUMP & TANK RM 203 EPS RM 2 & 3 HANDING: RIGHT HAND REVERSE (RHR) (SWING OUT) DIMENSIONS & DOOR/FRAME TYPE: __x___44mm 1050 2100 ST DR ST FR

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
12	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
3	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	А
3	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, WEATHERSTRIP, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
				×OR PER MANUFACTURER'S SPECIFICATIONS

VER DATE DESCRIPTION 0.2 FINAL REVISION OF JICA DESIGN TEAM 25 OCT 2017

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA DETAILED DESIGN STUDY TEAM ORIENTAL CONSULTANTS

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TEAM LEADER N. MATSUMOTO TONICHI ENGINEERING CONSULTANTS INC.

DESIGN CONSULTANT

TITLE JDT SMEC A. ALLI N. HAMILTON J. BARNES PROJ. MANAGER M. MIYATA M. WOTH R. YUZON, JR.

BOCAUE STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 7

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 SCALE N/A SHEET No.

	DESCRIPTION	APPLICATION / SUBSTRATE	APPLICATION PROCEDURE	THICKNESS	REMARKS		DESCRIPTION	APPLICATION / SUBSTRATE
	DR SYSTEMS							
01	1 METAL, NON-FERROUS						GYPSUM / PLASTER BOARD	
	LOW VOC, ALKYD RESIN TYPE, 3 COAT SYSTEM						WATER-BASED LATEX, 3 COAT SYSTEM	
	1. ONE COAT OF ALKYD TYPE PRIMER	GUARD POST	BRUSH OR ROLLER	1-1.5 MILS / COAT (PRIMER COATING)		1	1. ONE COAT OF LATEX PRIMER SEALER	GYPSUM BOARD WALLS
	2. SEMI-GLOSS; TWO COATS OF ALKYD ENAMEL	EXTERIOR EXPOSED VALVES	BRUSH OR ROLLER	1-1.5 MILS / COAT (SONCDARY / TOP COATING)			2. EGSSHEL; TWO COATS OF LATEX ENAMEL	GYPSUM BOARD DRY LININGS
		METER AND VALVE COVERS	BRUSH OR ROLLER	COATING		1	3. FLAT; TWO COATS OF LATEX ENAMEL	SOFFITS PLASTER & GYPSUM CEILINGS
							·	
02	METAL, FERROUS, PRIMED					_		
	LOW VOC, TWO COMPONENT FLOURINE AND POLY URETHANE COATING					05	WOOD	
				2-3 MILS (51-76			OIL BASED STAIN, 3 COATS SYSTEM	
	L ALVOYD TYPE DOWED	HOLLOW METEL DOOR AND FRAMES	SPRAY	MICRONS) PRIMER			1. BASE COAT- OIL WOOD STAIN	WOODEN DOOR FRAME
	1. ALKYD TYPE PRIMER			COATING 2-3 MILS (51-76		-	2. MID COAT; SANDING SEALER	
	2. LOW VOC FLUOROURETHANE FINISH, TWO COAT	STEEL LOUVERS	SPRAY	MICRONS) SECOND & TOP COATING			3. TOP COAT; CLEAR GLOSS POLYURETHANE COATING	
	SYSTEM	STEEL ROOF	SPRAY OR ROLLER	Tor coaring				
		STEEL WALL SIDINGS×	SPRAY OR ROLLER			06	FIREPROOFING	
								STEEL COLUMNS, MAIN
03	CONCRETE / MASONRY SELF-PRIMING MODIFIED WATERBASED ACRYLIC					-		STEEL BEAMS, MAIN
	SILOXANE, TWO-COAT SYSTEM	CONCRETE AND CONCRETE MASONRY		1–3 MILS		-		STEEL RAFTER, MAIN
	1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT)	UNITS EXPOSED TO VIEWS	BRUSH OR ROLLER	(25-76MICRONS)				STEEL DECKING
	2. SEALER AND PIGMENTED ACRYLIC							O TEEE BEGINNG
	2. SEALER AND PIGMENTED ACRYLIC (TRANSLUCENT OR OPAQUE FINISH)							O LEEC BECKING
							CONCRETE FLOORING	3122 3231113
FRIO	(TRANSLUCENT OR OPAQUE FINISH)					-	WATERBASED SELF LEVELLING EPOXY,2	31212 S2C4.1110
	(TRANSLUCENT OR OPAQUE FINISH) DR SYSTEM					-		
	OR SYSTEM METAL, FERROUS	HANDRAILS	BRUSH OR ROLLER	1-1.5 MILS / COAT (PRIMER COATING)		-	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER	CONCRETE FLOORING INDICATED IN TH PLANS AND SCHEDULE
	(TRANSLUCENT OR OPAQUE FINISH) DR SYSTEM	HANDRAILS	BRUSH OR ROLLER	1-1.5 MILS / COAT (PRIMER COATING) 1-1.5 MILS / COAT		-	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND	CONCRETE FLOORING INDICATED IN TH PLANS AND SCHEDULE
	OR SYSTEM METAL, FERROUS	HANDRAILS RAILINGS	BRUSH OR ROLLER BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP		-	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS	CONCRETE FLOORING INDICATED IN TH PLANS AND SCHEDULE
	OR SYSTEM METAL, FERROUS	RAILINGS	BRUSH OR ROLLER	(PRIMER COATING) 1–1.5 MILS / COAT		-	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND	CONCRETE FLOORING INDICATED IN TH PLANS AND SCHEDULE
	OR SYSTEM METAL, FERROUS	RAILINGS STEEL STAIRS	BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP			WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS	CONCRETE FLOORING INDICATED IN TH PLANS AND SCHEDULE
	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER	RAILINGS STEEL STAIRS STEEL WALL SIDINGS	BRUSH OR ROLLER BRUSH OR ROLLER BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP			WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING	CONCRETE FLOORING INDICATED IN TH PLANS AND SCHEDULE
	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER	RAILINGS STEEL STAIRS STEEL WALL SIDINGS STEEL GIRTS	BRUSH OR ROLLER BRUSH OR ROLLER BRUSH OR ROLLER BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP		08	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING CONCRETE / MASONRY, ACID PRONE AREA	CONCRETE FLOORING INDICATED IN TH PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOO
	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER	RAILINGS STEEL STAIRS STEEL WALL SIDINGS	BRUSH OR ROLLER BRUSH OR ROLLER BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP		08	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING CONCRETE / MASONRY, ACID PRONE AREA SELF-PRIMING MODIFIED WATERBASED ACRYLIC	CONCRETE FLOORING INDICATED IN TH PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOOR CONCRETE AND CONCRETE MASONRY
	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER	RAILINGS STEEL STAIRS STEEL WALL SIDINGS STEEL GIRTS STEEL MESH	BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP		08	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING CONCRETE / MASONRY, ACID PRONE AREA SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM 1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT) 2. SEALER AND PIGMENTED ACRYLIC	CONCRETE FLOORING INDICATED IN TH PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOO
01	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER	RAILINGS STEEL STAIRS STEEL WALL SIDINGS STEEL GIRTS STEEL MESH	BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP		08	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING CONCRETE / MASONRY, ACID PRONE AREA SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM 1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT)	CONCRETE FLOORING INDICATED IN THE PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOORING CONCRETE FLOORING CONCRETE AND CONCRETE MASONRY
01	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM 1 METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER 2. GLOSS; TWO COATS OF ALKYD ENAMEL METAL, NON-FERROUS	RAILINGS STEEL STAIRS STEEL WALL SIDINGS STEEL GIRTS STEEL MESH	BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP		08	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING CONCRETE / MASONRY, ACID PRONE AREA SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM 1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT) 2. SEALER AND PIGMENTED ACRYLIC	CONCRETE FLOORING INDICATED IN TH PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOO
01	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM 1 METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER 2. GLOSS; TWO COATS OF ALKYD ENAMEL	RAILINGS STEEL STAIRS STEEL WALL SIDINGS STEEL GIRTS STEEL MESH	BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP COATING)		08	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING CONCRETE / MASONRY, ACID PRONE AREA SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM 1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT) 2. SEALER AND PIGMENTED ACRYLIC	CONCRETE FLOORING INDICATED IN THE PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOORING CONCRETE FLOORING CONCRETE AND CONCRETE MASONRY
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01	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER 2. GLOSS; TWO COATS OF ALKYD ENAMEL METAL, NON-FERROUS LOW VOC, ALKYD RESIN TYPE, 3 COAT SYSTEM	RAILINGS STEEL STAIRS STEEL WALL SIDINGS STEEL GIRTS STEEL MESH GUARD POST	BRUSH OR ROLLER BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP COATING) COATING 2-3 MILS (51-76 MICRONS) PRIMER		08	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING CONCRETE / MASONRY, ACID PRONE AREA SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM 1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT) 2. SEALER AND PIGMENTED ACRYLIC	CONCRETE FLOORING INDICATED IN THE PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOORING CONCRETE FLOORING CONCRETE MASONRY
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02	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM 1 METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER 2. GLOSS; TWO COATS OF ALKYD ENAMEL METAL, NON-FERROUS LOW VOC, ALKYD RESIN TYPE, 3 COAT SYSTEM 1. ONE COAT OF ALKYD TYPE PRIMER 2. SEMI-GLOSS; TWO COATS OF ALKYD ENAMEL B CONCRETE / MASONRY	RAILINGS STEEL STAIRS STEEL WALL SIDINGS STEEL GIRTS STEEL MESH GUARD POST	BRUSH OR ROLLER BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP COATING) 2-3 MILS (51-76 MICRONS) PRIMER COATING 2-3 MILS (51-76 MICRONS) SECOND &		08	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING CONCRETE / MASONRY, ACID PRONE AREA SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM 1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT) 2. SEALER AND PIGMENTED ACRYLIC	CONCRETE FLOORING INDICATED IN THE PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOORING CONCRETE FLOORING CONCRETE AND CONCRETE MASONRY
02	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM (METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER 2. GLOSS; TWO COATS OF ALKYD ENAMEL METAL, NON-FERROUS LOW VOC, ALKYD RESIN TYPE, 3 COAT SYSTEM 1. ONE COAT OF ALKYD TYPE PRIMER 2. SEMI-GLOSS; TWO COATS OF ALKYD ENAMEL	RAILINGS STEEL STAIRS STEEL WALL SIDINGS STEEL GIRTS STEEL MESH GUARD POST B.I PIPES	BRUSH OR ROLLER BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP COATING) 2-3 MILS (51-76 MICRONS) PRIMER COATING 2-3 MILS (51-76 MICRONS) SECOND & TOP COATING		08	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING CONCRETE / MASONRY, ACID PRONE AREA SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM 1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT) 2. SEALER AND PIGMENTED ACRYLIC	CONCRETE FLOORING INDICATED IN THE PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOORING CONCRETE FLOORING CONCRETE AND CONCRETE MASONRY
02	(TRANSLUCENT OR OPAQUE FINISH) OR SYSTEM 1 METAL, FERROUS 1. TOUCH UP WITH ALKYD TYPE PRIMER 2. GLOSS; TWO COATS OF ALKYD ENAMEL METAL, NON-FERROUS LOW VOC, ALKYD RESIN TYPE, 3 COAT SYSTEM 1. ONE COAT OF ALKYD TYPE PRIMER 2. SEMI-GLOSS; TWO COATS OF ALKYD ENAMEL B CONCRETE / MASONRY	RAILINGS STEEL STAIRS STEEL WALL SIDINGS STEEL GIRTS STEEL MESH GUARD POST	BRUSH OR ROLLER BRUSH OR ROLLER	(PRIMER COATING) 1-1.5 MILS / COAT (SONCDARY / TOP COATING) 2-3 MILS (51-76 MICRONS) PRIMER COATING 2-3 MILS (51-76 MICRONS) SECOND &		08	WATERBASED SELF LEVELLING EPOXY,2 COMPONENT 1. EPOXY PRIMER 2. SELF-LEVELLING COMPOUND 3. BASE COLOR/ MARKINGS 4. CLEAR / TOP COATING CONCRETE / MASONRY, ACID PRONE AREA SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM 1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT) 2. SEALER AND PIGMENTED ACRYLIC	CONCRETE FLOORING INDICATED IN THE PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOORING CONCRETE FLOORING CONCRETE AND CONCRETE MASONRY

Reviewed by NSTren Jolge Müller Project Director

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

SCHEDULE OF PAINTS

<u>NOTES</u>

APPLICATION PROCEDURE

ROLLER OR BRUSH

ROLLER OR BRUSH

ROLLER OR BRUSH

ROLLER OR BRUSH

BRUSH OR ROLLER

SPRAY, BRUSH, OR ROLLER

SPRAY, BRUSH, OR ROLLER

SPRAY, BRUSH, OR ROLLER

SPRAY, BRUSH, OR ROLLER

ROLLER

BRUSH OR ROLLER

THICKNESS CP01-R87063_R1

1-1.5 MILS / COAT

(PRIMER COAT) 1-15 MILS / COAT (SECONDARY / TOP

COAT)

1.5 MICRONS / COAT

30MILS (0.80mm) /

30MILS (0.80mm) / COAT

30MILS (0.80mm) /

COAT 30MILS (0.80mm) /

3-5MM

1–3 MILS (25–76MICRONS)

1. AS PER MANUFACTURER'S STANDARD MATERIAL SPECIFICATIONS AND SPECIFICATIONS

7 001									
hared NE	R	DATE DESCRIPTION	DEPARTMENT OF TRANSPORTATION	TRANSPORTATION DESIGN CONSULTANT				THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER	OCTOBER 2017
AD S	2	25 OCT 2017 FINAL REVISION OF JICA DESIGN TEAM	REPUBLIC OF THE PHILIPPINES	JICA DETAILED DESIGN STUDY TEAM	TITLE	JDT	SMEC	RAILWAY PROJECT (MALOLOS-TUTUBAN)	SCALE AS SHOWN @ A1
irs/C				ORIENTAL CONSULTANTS GLOBAL CO., LTD.	DESIGNER	KATO / UCHIDA	A. ALLI	DETAILED DESIGN	SHEET No.
:\Use			PHILIPPINE NATIONAL RAILWAYS	KATAHIRA & ENGINEERS JAPAN INTERNATIONAL CONSULTANTS FOR	CHECK	K. SAKAMOTO	N. HAMILTON	VALENZUELA DEPOT-LIGHT REPAIR SHOP	DRG No.
i X				TRANSPORTATION CO., LTD.	TEAM LEADER	N. MATSUMOTO	J. BARNES	ARCHITECTURAL - SCHEDULE OF INTERIOR AND	NSCR-DWG-LRS-AR-3391
Filena			JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	PACIFIC CONSULTANTS TONICHI ENGINEERING CO., LTD. CONSULTANTS INC.	PROJ. MANAGER	M. MIYATA M. Work	R. YUZON, JR.	EXTERIOR PAINTING WORKS	DRG S. REV 02

modified by POLICARPIO-C7 / 05 Jul 2018 ame: X:\Users\CAD Shared\20180323__Submitted To Client\dt

LOCAT	SET:		01						LE
	ION OF	OPENING:	MOTORIZED SHUTT	ER DOOR D13		NO. OF DO	ORS: 1		
			ROOM NO.	106	EMERGENCY GENE	RATOR RM			
			HANDING:	NON-HANDED	'				DO
DIMEN	SIONS &	DOOR/FRAME TYPE:	3000	x	2425	x	GA 18 (1.2mm)		
			SST	DR	X	SST	FR		
QTY.							FINISH SPECIFICATIONS		
1	SET	DOOR CURTAIN &	R CURTAIN & GA 18 STAINLESS STEEL SHUTTER DOOR (WITH VENTILATION HOLES); HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH						F
ASSEMBLY SAFETY STOP FUNCTION				DD AL ANCE DEMOLINITADI E MIDDOCT AC	630	HA			
1	SET	ITEMS	ISCELLANEOUS DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE. & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS					С	
								×OR PER MANUFACTURER'S	
								SPECIFICATIONS	
	SET:		02						
_0CA1	ION OF	OPENING:	DOUBLE DOOR D2 (ELECTRICAL CARD	EMERGENCY EXIT WITH		NO. OF DO	OBS. 10		
			ROOM NO.	102	GE CORRIDOR TO I	ELEVATOR HALLS A 8			
			RUUM NU.	202					l A
						ELEVATOR HALLS A 8			
				302		ELEVATOR HALLS A 8			'
				402-A		ELEVATOR HALLS A 8	r D		
				502	VIEWING AREA	ELEVATOR HAVE A	n D)		
						ELEVATOR HALLS A	½ Β)		
DIMFN	SIONS 8.	DOOR/FRAME TYPE:	HANDING:		RSE BEVEL (LHRB) ACTI				
ILIN	W	. 200m : MAILE III E	2000	X	2100	X	44mm		
0.17	UNIT	ITEM TYPE	SST	DR	X DETAILED ITEM S	SST	FR	EINICH CDECIEICATIONS	
QTY.		ITEM TYPE	FIDE DATED DALL	DEADING HINGE DED M	DETAILED ITEM S			FINISH SPECIFICATIONS	
80	PLS	DOOR HINGE			ANUFACTURER'S RECOMM		ON PULL SIDE (GRADE 1); UL-LISTED, 3	A	
10	SETS	DOOR PANIC HARDWARE (PAIR)		G; NON-HANDED; W/ PO			ONAL DOGGING MECHANISM FEATURE; PE	R A	
20	SETS	DOOR CLOSER			H SIDE); UL-LISTED, 3 H	OURS FIRE RATING; N	ON-HANDED; WITH BACKCHECK AND	A	
20	3513	ASSEMBLY	<u> </u>	R MANUFACTURER'S RI				Α	
10	SETS	MISCELLANEOUS ITEMS			VICE (AS REQUIRED IF RI ER MANUFACTURER'S RE		R), ASTRAGAL, THRESHOLDS, ACCESS	A	
								×OR PER MANUFACTURER'S	
								SPECIFICATIONS	
HW:	SET:		03						Γ.
		OPENING:	SINGLE DO	OR D3		NO OF D	00RS: 5		-
LOCAT							· 1=		-
LOCAT			ROOM NO	1:	26 PWD	110. 01 2			-
LOCA1			ROOM NO.			110. 01 2			-
LOCAT			ROOM NO.	2	05 2F PWD	110: 01: 0			-
LOCAT			ROOM NO.	2	05 2F PWD 05 3F PWD	110. 01 5			-
LOCAT			ROOM NO.	2 3 4	05 2F PWD 05 3F PWD 05 4F PWD	10:00			_
LOCAT				2 3 4 5	2F PWD 05 3F PWD 05 4F PWD 05 5F PWD				_
	SIONS &	DOOR/FRAME TYPE:	HANDING:	2 3 4 5 LEFT HAN	2F PWD 05 3F PWD 05 4F PWD 05 5F PWD D REVERSE (LHR) (SWING	5 OUT)	44 nm		l
	SIONS &	, DOOR/FRAME TYPE:	HANDING:	2 3 4 5 LEFT HAN	2F PWD 05 3F PWD 05 4F PWD 05 5F PWD D REVERSE (LHR) (SWING x 2100	5 OUT) x	44mm FR		l
		DOOR/FRAME TYPE:	HANDING:	2 3 4 5 LEFT HAN	05 2F PWD 05 3F PWD 05 4F PWD 05 5F PWD 0 REVERSE (LHR) (SWING x 2100	5 OUT)	44mm FR	FINISH SPECIFICATIONS	C
DIMEN	UNIT		HANDING:	2 3 4 5 5 LEFT HAN 000 5T C	2F PWD 05 3F PWD 05 4F PWD 05 5F PWD 0 DREVERSE (LHR) (SWING x 2100 IR x DETAILED IT	G OUT) X ST EM SPECIFICATIONS	FR		
DIMEN QTY.		ITEM TYPE DOOR HINGE	HANDING:	2 3 4 5 LEFT HAN 000 ST C	2F PWD 05 3F PWD 05 4F PWD 05 5F PWD 0 DREVERSE (LHR) (SWING 0 x 2100 0 RR	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI	FR NUFACTURER'S RECOMMENDATION	A	L
DIMEN QTY.	UNIT	ITEM TYPE	HANDING: 11: 5" X 4 1/2 IBLE) DEADBOL	2 3 4 5 LEFT HAN 000 ST C	2F PWD 05 3F PWD 05 4F PWD 05 5F PWD 0 DREVERSE (LHR) (SWING 0 x 2100 0 RR	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT")	FR	A	
OTY.	UNIT PCS SETS	ITEM TYPE DOOR HINGE THUMBTURN (ACCESS	HANDING: 5" X 4 1/2 IBLE) DEADBOL: 1 ICATOR 3 HOURS I	2 3 4 5 LEFT HAN 000 5T C "' LOOSE-PIN BUTT HIN T WITH OCCUPANCY INE	25 2F PWD 25 3F PWD 25 4F PWD 25 5F PWD 26 2F PWD 27 2100 28 2100 28 x DETAILED IT 26 2F PWD 27 2100 28 x DETAILED IT 27 2F PWD 28 2100 29 2100 20 210	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT") NDATION	FR NUFACTURER'S RECOMMENDATION , ADA COMPLIANT, WITH EMERGENCY KE	A 630	
DIMEN QTY. 20	UNIT	ITEM TYPE DOOR HINGE THUMBTURN (ACCESS WITH OCCUPANCY IND	HANDING: 5" X 4 1/2 IBLE) DEADBOL: 1 ICATOR 3 HOURS I	2 3 4 5 LEFT HAN 000 5T C "' LOOSE-PIN BUTT HIN T WITH OCCUPANCY INE	2F PWD 05 3F PWD 05 4F PWD 05 5F PWD 05 5F PWD 0 REVERSE (LHR) (SWING 0 x 2100 0 RR x 0 DETAILED IT 0 GE, STEEL, BALL BEARII	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT") NDATION	FR NUFACTURER'S RECOMMENDATION , ADA COMPLIANT, WITH EMERGENCY KE	A	-
QTY. 20 5	UNIT PCS SETS	ITEM TYPE DOOR HINGE THUMBTURN (ACCESS WITH OCCUPANCY IND VERTICAL PULL HAND	HANDING: 11 5" X 4 1/2 IBLE) DEADBOL: 3 HOURS I ILE (PULL STAINLES	2 3 4 5 LEFT HAN 000 ST C " LOOSE-PIN BUTT HIN T WITH OCCUPANCY INE FIRE RATING; PER MANU S STEEL DOOR PULL H.	25 2F PWD 25 3F PWD 25 4F PWD 25 5F PWD 26 2F PWD 27 2100 28 2100 28 x DETAILED IT 26 2F PWD 27 2100 28 x DETAILED IT 27 2F PWD 28 2100 29 2100 20 210	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT") NDATION RFACE MOUNT VISIBLE	FR NUFACTURER'S RECOMMENDATION , ADA COMPLIANT, WITH EMERGENCY KE	A 630	[
QTY. 20 5	UNIT PCS SETS	ITEM TYPE DOOR HINGE THUMBTURN (ACCESS WITH OCCUPANCY IND VERTICAL PULL HAND	HANDING: 11 5" X 4 1/2 IBLE) ICATOR JEADBOL JICATOR JHOURS I	2 3 4 5 LEFT HAN 000 ST C "'LOOSE-PIN BUTT HIN I WITH OCCUPANCY INE FIRE RATING; PER MANI S STEEL DOOR PULL H.	2F PWD 25 3F PWD 25 4F PWD 25 4F PWD 25 5F PWD 26 X 2100 27 X 2100 28 X 26 DETAILED IT 26 JEACTURER'S RECOMMEN ANDLE WITH PLATE; SUF	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT") NDATION RFACE MOUNT VISIBLE 32mm CLEARANCE	FR NUFACTURER'S RECOMMENDATION , ADA COMPLIANT, WITH EMERGENCY KE' FIX (PULL SIDE)	A 630	[
0.TY. 20 5 5	UNIT PCS SETS SETS	ITEM TYPE DOOR HINGE THUMBTURN (ACCESS WITH OCCUPANCY IND VERTICAL PULL HAND SIDE)	HANDING: 5" X 4 1/2 IBLE) ICATOR THE (PULL STAINLES HANDLE: 4 300mm X	2 3 4 5 LEFT HAN 000 ST C "'LOOSE-PIN BUTT HIN I WITH OCCUPANCY INE FIRE RATING; PER MANI S STEEL DOOR PULL H.	2F PWD 25 3F PWD 25 4F PWD 25 4F PWD 25 5F PWD 26 EXECUTE SET OF	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT") NDATION RFACE MOUNT VISIBLE 32mm CLEARANCE	FR NUFACTURER'S RECOMMENDATION , ADA COMPLIANT, WITH EMERGENCY KE' FIX (PULL SIDE)	A 630	[
0.TY. 20 5 5	UNIT PCS SETS SETS	ITEM TYPE DOOR HINGE THUMBTURN (ACCESS WITH OCCUPANCY IND VERTICAL PULL HAND SIDE) PUSH PLATES	HANDING: 5" X 4 1/2 IBLE) ICATOR DEADBOL: 3 HOURS I ILE (PULL STAINLES HANDLE: 4 300mm X	2 3 4 5 LEFT HAN 000 ST C "'LOOSE-PIN BUTT HIN T WITH OCCUPANCY INE FIRE RATING; PER MANI S STEEL DOOR PULL H. 25mmL x 16mm DIAMET	2F PWD 25 3F PWD 25 3F PWD 25 4F PWD 25 5F PWD 26 SF PWD 27 2100 28 x 2100 29 ETAILED IT 20 ETAILED IT 20 ETAILED IT 21 ETAILED IT 21 ETAILED IT 22 ETAILED IT 23 ETAILED IT 24 ETAILED IT 25 ETAILED IT 26 ETAILED IT 27 ETAILED IT 28 ETAILED IT 28 ETAILED IT 29 ETAILED IT 20 ETAILED	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT") NDATION RFACE MOUNT VISIBLE 32mm CLEARANCE	FR NUFACTURER'S RECOMMENDATION , ADA COMPLIANT, WITH EMERGENCY KE' FIX (PULL SIDE)	A 630 630	-
0.TY. 20 5 5	UNIT PCS SETS SETS SETS	ITEM TYPE DOOR HINGE THUMBTURN (ACCESS WITH OCCUPANCY IND VERTICAL PULL HAND SIDE) PUSH PLATES	HANDING: 5" X 4 1/2 IBLE) ICATOR DEADBOL: 3 HOURS I ILE (PULL) STAINLES HANDLE: 4 300mm X DIMENSION STEEL PL ADA BARRI NON-HANI	2 3 4 5 LEFT HAN 000 ST C "LOOSE-PIN BUTT HIN F WITH OCCUPANCY INC FIRE RATING; PER MANU S STEEL DOOR PULL H. 125mmL x 16mm DIAMET 100mm PUSH DOOR PRI 1300mm HIGH X DOOR ATE W/ SCREWS; FOR I	2F PWD 25 3F PWD 25 3F PWD 25 4F PWD 25 5F PWD 26 X 2100 27 AV 2100 28 X DETAILED IT 26 AV 25 AV	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT") NDATION RFACE MOUNT VISIBLE 32mm CLEARANCE W/ SCREWS (PUSH S	FR NUFACTURER'S RECOMMENDATION , ADA COMPLIANT, WITH EMERGENCY KE' FIX (PULL SIDE)	A 630 630 630	[
DIMEN QTY. 20 5 5 10	UNIT PCS SETS SETS SETS SETS SETS	ITEM TYPE DOOR HINGE THUMBTURN (ACCESS WITH OCCUPANCY IND VERTICAL PULL HAND SIDE) PUSH PLATES KICK PLATES DOOR CLOSER ASSEM	HANDING: 5" X 4 1/2 IBLE) ICATOR HANDLE: 4 300mm X DIMENSION STEEL PL ADA BARRI NON-HANI RECOMMEI	2 3 4 5 LEFT HAN 000 ST C "LOOSE-PIN BUTT HIN I WITH OCCUPANCY INC I'' LOOSE, PER MANU S STEEL DOOR PULL H. 125mmL x 16mm DIAMET 100mm PUSH DOOR PRI 1300mm HIGH X DOOR ATE W/ SCREWS; FOR I RIER FREE DOOR CLOSE DED; WITH BACKCHECK NDATION	2F PWD 25 3F PWD 25 3F PWD 25 4F PWD 25 5F PWD 26 EVERSE (LHR) (SWING 27 2100 28 X 2100 29 DETAILED IT 20 JETAILED IT 21 JETAILED IT 22 JETAILED IT 23 JETAILED IT 24 JETAILED IT 25 JETAILED IT 26 JETAILED IT 27 JETAILED IT 28 JETAILED IT 28 JETAILED IT 29 JETAILED IT 29 JETAILED IT 20 JETAILED IT 20 JETAILED IT 21 JETAI	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT") NDATION RFACE MOUNT VISIBLE 32mm CLEARANCE W/ SCREWS (PUSH S PARALLEL ARM (PUSH PTION FOR HOLD OPEN	FR NUFACTURER'S RECOMMENDATION , ADA COMPLIANT, WITH EMERGENCY KE FIX (PULL SIDE) IDE) SIDE); UL-LISTED, 3 HOURS FIRE RATING FUNCTION; PER MANUFACTURER'S	A 630 630 630 630	[
DIMEN QTY. 20 5 5 5	UNIT PCS SETS SETS SETS SETS SETS	ITEM TYPE DOOR HINGE THUMBTURN (ACCESS WITH OCCUPANCY IND VERTICAL PULL HAND SIDE) PUSH PLATES KICK PLATES	HANDING: 5" X 4 1/2 IBLE) ICATOR HANDLE: 4 300mm X DIMENSION STEEL PL ADA BARRI NON-HANI RECOMMEI	2 3 4 5 LEFT HAN 000 ST C "LOOSE-PIN BUTT HIN I WITH OCCUPANCY INC I'' LOOSE, PER MANU S STEEL DOOR PULL H. 125mmL x 16mm DIAMET 100mm PUSH DOOR PRI 1300mm HIGH X DOOR ATE W/ SCREWS; FOR I RIER FREE DOOR CLOSE DED; WITH BACKCHECK NDATION	2F PWD 25 3F PWD 25 3F PWD 25 4F PWD 25 5F PWD 26 X 2100 27 AV 2100 28 X DETAILED IT 26 AV 25 AV	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT") NDATION RFACE MOUNT VISIBLE 32mm CLEARANCE W/ SCREWS (PUSH S PARALLEL ARM (PUSH PTION FOR HOLD OPEN	FR NUFACTURER'S RECOMMENDATION , ADA COMPLIANT, WITH EMERGENCY KE FIX (PULL SIDE) IDE) SIDE); UL-LISTED, 3 HOURS FIRE RATING FUNCTION; PER MANUFACTURER'S	A 630 630 630 630 A A	-
DIMEN QTY. 20 5 5 5 10	UNIT PCS SETS SETS SETS SETS SETS	ITEM TYPE DOOR HINGE THUMBTURN (ACCESS WITH OCCUPANCY IND VERTICAL PULL HAND SIDE) PUSH PLATES KICK PLATES DOOR CLOSER ASSEM	HANDING: 5" X 4 1/2 IBLE) ICATOR HANDLE: 4 300mm X DIMENSION STEEL PL ADA BARRI NON-HANI RECOMMEI	2 3 4 5 LEFT HAN 000 ST C "LOOSE-PIN BUTT HIN I WITH OCCUPANCY INC I'' LOOSE, PER MANU S STEEL DOOR PULL H. 125mmL x 16mm DIAMET 100mm PUSH DOOR PRI 1300mm HIGH X DOOR ATE W/ SCREWS; FOR I RIER FREE DOOR CLOSE DED; WITH BACKCHECK NDATION	2F PWD 25 3F PWD 25 3F PWD 25 4F PWD 25 5F PWD 26 EVERSE (LHR) (SWING 27 2100 28 X 2100 29 DETAILED IT 20 JETAILED IT 21 JETAILED IT 22 JETAILED IT 23 JETAILED IT 24 JETAILED IT 25 JETAILED IT 26 JETAILED IT 27 JETAILED IT 28 JETAILED IT 28 JETAILED IT 29 JETAILED IT 29 JETAILED IT 20 JETAILED IT 20 JETAILED IT 21 JETAI	S OUT) X ST EM SPECIFICATIONS NG, GRADE 1; PER MAI JPIED" OR "VACANT") NDATION RFACE MOUNT VISIBLE 32mm CLEARANCE W/ SCREWS (PUSH S PARALLEL ARM (PUSH PTION FOR HOLD OPEN	FR NUFACTURER'S RECOMMENDATION , ADA COMPLIANT, WITH EMERGENCY KE FIX (PULL SIDE) IDE) SIDE); UL-LISTED, 3 HOURS FIRE RATING FUNCTION; PER MANUFACTURER'S	A 630 630 630 630	

LEGEND:						
DR DOOR						
FR	FRAME					
DOOR/ F	RAME MATERIAL:					
ST	STEEL TYPE					
SST	STAINLESS STEEL TYPE					
FG	FULL GLASS					
FRML	FRAMELESS					
HARDWA	ARE FINISH CODE:					
630	STAINLESS STEEL METAL, SATIN					
673	ALUMINUM, CLEAR COATED					
689	ALUMINUM PAINTED					
Α	STEEL BASE METAL					
С	STAINLESS STEEL BASE METAL					

HW SET:

LOCATION OF OPENING:

04

SINGLE DOOR D4

128

207

407

CP01-B8-286_R1 NOTES: NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY. DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW. LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT

NO. OF DOORS: 5

ANSI/BHMA	FUNCTION CODES FOR CYLI	INDRICAL AND MORTISE LOCKSETS
CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.
E2161	DEADLOCK (CYLINDER)	DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.

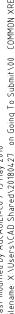
FEMALE TOILET 1

2F FEMALE TOILET 1

3F FEMALE TOILET 1 4F FEMALE TOILET 1

SF FEMALE TOILET

				507	5F FEMALE TOIL	.ET		team and reviewed/adjusted	the Netron Concertium		
			HANDING:	LEFT HAND (LH	H) (SWING IN)			team and reviewed/adjusted	a by NSTTeri Consortium		
DIMENS	SIONS &	DOOR/FRAME TYPE:	1000	x	nm						
			ST	DR	×	ST	FR				
		1									
QTY.	UNIT	ITEM TYPE			DETAILED ITEM S	PECIFICATIONS	5		FINISH SPECIFICATIONS		
20	PCS	DOOR HINGE		5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION							
5	SETS	VERTICAL PULL HANDLE (PULL SIDE)	STAINLESS STEE	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)							
			HANDLE: 425mml	x 16mm DIAMET	ER x 48mm STAND	OFF, 32mm CLI	EARAN	CE			
5	SETS	PUSH PLATES	300mm X 100mm	PUSH DOOR PRO	TECTOR FINGER PL	.ATE W/ SCRE	EWS (PI	USH SIDE)	630		
5	SETS	DOOR CLOSER ASSEMBLY		SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION							
5	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, &	OTHER HARDWA	RE PER MANUFACT	URER'S RECO	MMEND	ATION	Α		
									×OR PER MANUFACTURER'S SPECIFICATIONS		



25 OCT 2017

FINAL REVISION OF JICA DESIGN TEAM

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES

PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)



JICA DETAILED DESIGN STUDY TEAM

ORIENTAL CONSULTANTS

KATAHIRA & ENGINEERS OF CONSULTANTS FOR TRANSPORTATION CO., LTD. TONICHI ENGINEERING CONSULTANTS INC.

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VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 1

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

AS SHOWN @ A1 SHEET No.

OCTOBER 2017

Reviewed by NSTren

Jorge Müller

Project Director

This Drawing was originally prepared by JICA design

NSCR-DWG-OCC-AR-3371

01

HW SET:			05					
LOCATION OF	OPENING:		SINGLE DOOF	R D4	N	0. OF DOOR	:S: 5	
			ROOM NO.	125	MALE TOILE	Г 1		
				204	2F MALE TO	LET 1		
				304	3F MALE TO	LET 1		
				404	4F MALE TO	LET 1		
				504	5F MALE TO	LET		
			HANDING:	RIGHT HAND	(RH) (SWING IN	I)		
DIMENSIONS 8	& DOOR/FRAME TYPE:		1000	x	2100	×	44mm	
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE			ETAILED ITEM	SPECIFICA1	TIONS	FINISH SPECIFICATIONS

UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
PCS	DOOR HINGE	S" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	А
SETS	VERTICAL PULL HANDLE (PULL SIDE)	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)	630
		HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE	
SETS	PUSH PLATES	300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE)	630
SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	А
SETS	MISCELL ANEOUS ITEMS	THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
			×OR PER MANUFACTURER'S SPECIFICATIONS
	PCS SETS SETS SETS	PCS DOOR HINGE SETS VERTICAL PULL HANDLE (PULL SIDE) SETS PUSH PLATES SETS DOOR CLOSER ASSEMBLY	PCS DOOR HINGE S" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION SETS VERTICAL PULL HANDLE (PULL SIDE) STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE) HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE SETS PUSH PLATES 300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE) SETS DOOR CLOSER ASSEMBLY SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION

HW SET:			06					
LOCATION OF OPENING:			SINGLE DOOI ELECTRICAL ACCESS DOO	CARD KEY	N	D. OF DOOR	S: 2	
			ROOM NO.	100-B	STAIR 2-GF			
				600-A	STAIR 1-R			
			HANDING:	RIGHT HAND	REVERSE (RHR) (SWING 0	UT)	
DIMENSIONS	& DOOR/FRAME TYP	E:	1000	x	2100	x	44mm	
			ST	DR	x	ST	FR	
				·	·			
QTY.	UNIT	ITEM TYPE			DETAILED ITEM	SPECIFICAT	IONS	FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	FIRE RATED	BALL BEARING	HINGE; PER MA	NUFACTUR	ER'S RECOMMENDATION	А
2	SETS	DOOR PANIC HARDWARE	LEVER ON P W/ POSITIVI	ULL SIDE (GRAD E LATCHING AS	E 1); UL-LISTE), 3 HOURS 5 & OPTION	DEVICE (PUSH SIDE); WITH FIRE RATING; NON-HANDED; AL DOGGING MECHANISM	А
2	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION				A			
2	SETS	MISCELLANEOUS ITEMS			EXIT STOPPER MANUFACTURER		RM, ASTRAGAL, THRESHOLDS, IENDATION	А
								×OR PER MANUFACTURER'S



This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

LEGEND:				
DR DOOR				
FR	FRAME			
DOOR/ F	RAME MATERIAL:			
ST	STEEL TYPE			
SST	STAINLESS STEEL TYPE			
FG	FULL GLASS			
FRML	FRAMELESS			
HARDWA	ARE FINISH CODE:			
630	STAINLESS STEEL METAL, SATIN			
673	ALUMINUM, CLEAR COATED			
689	ALUMINUM PAINTED			
Α	STEEL BASE METAL			
STAINLESS STEEL BASE C METAL				

HW SET:

LOCATION OF OPENING:

	NOTES: CP01-B8-287_R1
	NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING.
	DOGGING MECHANISM – MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS
	POSITIVE LATCHING – ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN
	BACKCHECK – SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL
	REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET
۸L,	DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.
ED	DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW.
	LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS
	ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT POSITION.

NO. OF DOORS: 2

100-A STAIR 1-GF

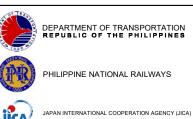
ANSI/BHMA FUNCTION CODES FOR CYLINDRICAL AND MORTISE LOCKSETS								
CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)						
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.						
F86	_ < ORFROOM / OSFI / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.						
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.						
F95	DEADROLT SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.						
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.						
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.						
E2161	DEADLOCK (CYLINDER)	DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.						

				600-B	STAIR 2-R			
			HANDING:	LEFT HAND	REVERSE (L	HR) (SWIN	IG OUT)	
DIMENSIONS & DOOR/FRAME TYPE:		1000	x	2100	x	44mm		
			ST DR x ST FR					
QTY.	UNIT	ITEM TYPE		DE	TAILED ITEM	SPECIFIC	ATIONS	FINISH SPECIFICATION
8	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION A			А		
2	SETS	DOOR PANIC HARDWARE	SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); WITH LEVER ON PULL SIDE (GRADE 1); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE; PER MANUFACTURER'S RECOMMENDATION			A A		
2	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION			FIRE A		
2	SETS	MISCELLANEOUS ITEMS		S, & OTHER			R ALARM, ASTRAGAL, FACTURER'S	A
								×OR PER MANUFACTURER'S SPECIFICATIONS

SINGLE DOOR D5 (WITH ELECTRICAL CARD KEY

ACCESS DOOR)

VER	DATE	DESCRIPTION	
01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM	







	TITLE	JDT	SMEC
	DESIGNER	KATO / UCHIDA	A. ALLI
	CHECK	K. SAKAMOTO	N. HAMILTON
TD.	TEAM LEADER	N. MATSUMOTO	J. BARNES
	PROJ. MANAGER	M. MIYATA N. Work	R. YUZON, JR.

DETAILED DESIGN
VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL – SCHEDULE OF HARDWARE SHEET 2

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

OCTOBER 2017 AS SHOWN @ A1 SHEET No.

HW SET: LOCATION OF OPENING: DOUBLE DOOR D8 (WITH ELECTRICAL CARD KEY ACCESS DOOR) NO. OF DOORS: 12 CREW MANAGEMENT RM CONFERENCE RM-311 312 CONFERENCE RM-2 313 CONFERENCE RM-3 316 FACILITY MANAGEMENT DIVISION RM 332 ELECTRIC MANAGEMENT ROOM 409 CONFERENCE RM 410 TRAINING RM RIGHT HAND (RH) ACTIVE (PAIR SWING IN) DIMENSIONS & DOOR/FRAME TYPE: 44mm ST DR ST FR QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION PCS DOOR HINGE CYLINDRICAL LEVER 12 SETS LOCK FUNCTION CODE 630 LOCKSET INTERCONNECTED SINGLE LOCKING ENTRY (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER 24 SETS VERTICAL PULL HANDLE (BOTH SIDES) STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (OPPOSITE DOOR) 630 HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE PLATE: 75mmW x 300mmH x 2mmT DOOR CLOSER SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND 24 SETS ASSEMBLY DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION 12 SETS MISCELLANEOUS DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), THRESHOLDS, ASTRAGAL ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION ×OR PER MANUFACTURER'S SPECIFICATIONS HW SET: DOUBLE DOOR D8 (WITH ELECTRICAL CARD LOCATION OF OPENING: KEY ACCESS DOOR) NO. OF DOORS: 8 ROOM NO GF CORRIDOR AT ENTRANCE LOBBY GF CORRIDOR 102 118 CUR 119 223 BEDROOM MALE 224 BEDROOM FEMALE 415 LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT) HANDING DIMENSIONS & DOOR/FRAME TYPE: 2000 44mm ST DR ST FR QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION PCS DOOR HINGE CYLINDRICAL LEVER LOCKSET 8 SETS LOCK FUNCTION CODE: 630 INTERCONNECTED SINGLE LOCKING ENTRY (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION 16 SETS HANDLE (BOTH SIDES) STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (OPPOSITE DOOR) 630 HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE PLATE: 75mmW x 300mmH x 2mmT SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DOOR CLOSER ASSEMBLY SETS DELAY ACTION, PER MANUFACTURER'S RECOMMENDATION DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), THRESHOLDS, ASTRAGAL, MISCELLANEOUS 8 SETS ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION ×OR PER MANUFACTURER'S SPECIFICATIONS **DESIGN CONSULTANT**

DD D00D				
DR	DOOR			
FR	FRAME			
DOOR/ F	RAME MATERIAL:			
ST	STEEL TYPE			
SST	STAINLESS STEEL TYPE			
FG	FULL GLASS			
FRML FRAMELESS				
HARDWA	ARE FINISH CODE:			
630 STAINLESS STEEL METAL, SATIN				
673	ALUMINUM, CLEAR COATED			
689	ALUMINUM PAINTED			
Α	STEEL BASE METAL			
STAINLESS STEEL BASE C METAL				

CP01-B8-289_R1 NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY. DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT

ANSI/BHMA	FUNCTION CODES FOR CYLI	NDRICAL AND MORTISE LOCKSETS		
CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)		
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.		
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.		
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.		
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.		
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.		
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.		
E2161	DEADLOCK (CYLINDER)	DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.		

HW SET:	13					Reviewed by NSTren
LOCATION OF OPENING:	DOUBLE DOOR D8		NO. OF DOORS: 4			
	ROOM NO.	104	LOW VOLTAGE	ELECTRICAL RM		11 olle
		105	HIGH VOLTAGE	ELCTRICAL RM		
		214	CREW MANAGEN	MENT DIVISION L	.OUNGE	Jorge Müller
		419	OCC LOUNGE			Project Director
	HANDING:	RIGHT HAND (RH)	ACTIVE (PAIR S	WING IN)		
DIMENSIONS & DOOR/FRAME TYPE:	2000	x	2100	x	44mm	This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium
	ST	DR	x	ST	FR	team and reviewed/adjusted by No Herr Consolitum

QTY.	UNIT	ITEM TYPE	DETAILED ITEN	FINISH SPECIFICATIONS		
32	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BAL RECOMMENDATION	Α		
4 SETS CYLINDRICAL LEVER LOCK FUNCTION CODE: F		LOCK FUNCTION CODE: F95		630		
			INTERCONNECTED SINGLE LOCKING ENTRY (ON AC FIRE RATING; PER MANUFACTURER'S RECOMMENI	CTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS DATION		
8	SETS	VERTICAL PULL HANDLE (BOTH SIDES)				
	HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE					
0			PLATE: 75mmW x 300mmH x 2mmT			
8	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE) WITH BACKCHECK AND DELAY ACTION; PER MANI	А		
4 SETS MISCELLANEOUS			DOOR COORDINATOR/DOOR SELECTOR DEVICE (A: THRESHOLDS, ASTRAGAL, PEST PROOFING (AS A MANUFACTURER'S RECOMMENDATION		А	
					×OR PER MANUFACTURER SPECIFICATIONS	

VER	DATE	DESCRIPTION
01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA DETAILED DESIGN STUDY TEAM

KATAHIRA & ENGINEERS INTERNATIONAL

ORIENTAL CONSULTANTS



	DESIGNER	KATO / UCHIDA	A. ALLI
	CHECK	K. SAKAMOTO	N. HAMILTON
LTD.	TEAM LEADER	N. MATSUMOTO	J. BARNES
	PROJ. MANAGER	M. MIYATA N. WOJO	R. YUZON, JR.
		74.00	

SMEC

TITLE

VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 4

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 AS SHOWN @ A1 SHEET No

HW SET: 14 LOCATION OF OPENING: DOUBLE DOOR D8 NO. OF DOORS: 2 ROOM NO 118 CUR LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT) DIMENSIONS & DOOR/FRAME TYPE: 2000 ST ST FINISH SPECIFICATIONS QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S PCS DOOR HINGE RECOMMENDATION 2 SETS CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: 630 INTERCONNECTED SINGLE LOCKING ENTRY (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION STAINLESS STEEL DOOR PULL HANDLE WITH PLATE: SURFACE MOUNT VISIBLE FIX (OPPOSITE DOOR) 4 SETS VERTICAL PULL HANDLE (BOTH SIDES) 630 HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE PLATE: 75mmW x 300mmH x 2mmT 0 SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH 4 SETS DOOR CLOSER ASSEMBLY BACKCHECK AND DELAY ACTION, PER MANUFACTURER'S RECOMMENDATION DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), THRESHOLDS, 2 SETS MISCELLANEOUS ITEMS ASTRAGAL, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION OR PER MANUFACTURER'S SPECIFICATIONS HW SET: LOCATION OF OPENING: DOUBLE DOOR D8 (WITH ELECTRICAL CARD NO. OF DOORS: 1 KEY ACCESS DOOR) CANTEEN-GF ROOM NO LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT) HANDING: DIMENSIONS & DOOR/FRAME TYPE: ST ŞΤ ITEM TYPE FINISH SPECIFICATIONS QTY. UNIT DETAILED ITEM SPECIFICATIONS 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S PCS DOOR HINGE RECOMMENDATION 1 SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F82A 630 ENTRY/OFFICE LOCK (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (OPPOSITE DOOR) 2 SETS VERTICAL PULL HANDLE (BOTH SIDES) 630 0 HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE 0 ACCESS CARD/ SECURITY, THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER 2 SETS DOOR CLOSER ASSEMBLY MANUFACTURER'S RECOMMENDATION THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S 1 SET MISCELLANEOUS ITEMS ×OR PER MANUFACTURER'S SPECIFICATIONS HW SET: LOCATION OF OPENING DOUBLE EGRESS DOOR D8 (WITH ELECTRICAL CARD KEY ACCESS DOOR) NO. OF DOORS: ROOM NO KITCHEN RH/LHR DOUBLE EGRESS (RIGHT HAND / LEFT HAND REVERSE) HANDING: DIMENSIONS & DOOR/FRAME TYPE: 2000 44mm ST FINISH SPECIFICATIONS QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S PCS DOOR HINGE RECOMMENDATION 1 SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: 630 F82A ENTRY/OFFICE LOCK (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION 2 SETS VERTICAL PULL HANDLE (BOTH SIDES) STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (OPPOSITE DOOR) HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE PLATE: 75mmW x 300mmH x 2mmT SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH 2 SETS DOOR CLOSER ASSEMBLY BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION ACCESS CARD/ SECURITY, THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER SET MISCELLANEOUS ITEMS MANUFACTURER'S RECOMMENDATION ×OR PER MANUFACTURER'S SPECIFICATIONS **DESIGN CONSULTANT**

LEGEND:				
DR	DOOR			
FR	FRAME			
DOOR/ F	RAME MATERIAL:			
ST	STEEL TYPE			
SST	STAINLESS STEEL TYPE			
FG	FULL GLASS			
FRML	1L FRAMELESS			
HARDWA	ARE FINISH CODE:			
630 STAINLESS STEEL METAL,				
673	ALUMINUM, CLEAR COATED			
689	ALUMINUM PAINTED			
Α	STEEL BASE METAL			
STAINLESS STEEL BASE C METAL				

HW SET:

LOCATION OF OPENING:

POSITION.

CP01-B8-290_R1 NOTES: NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY. DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW

LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS

ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT

NO. OF DOORS: 3

ANSI/BHMA	FUNCTION CODES FOR CYL	INDRICAL AND MORTISE LOCKSETS				
CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HT1	FP://WWW.HAGERCO.COM)			
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS OCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER JNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.				
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.				
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHE LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOS UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES	INSIDE. KEY IN OUTSIDE LEVER LOCKS OR SING DOOR RELEASES PUSH BUTTON AND			
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTAT EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT UNLOCKED POSITION BY OPERATING INSIDE LEVER.				
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSID UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING				
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.	Reviewed by NST en			
E2161	DEADLOCK (CYLINDER)	DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.	Wall Y			

227

228

310

LINEN RM

STORAGE

HANDING: RIGHT HAND (RH) ACTIVE (PAIR SWING IN)

LAUNDRY RM

DOUBLE DOOR D8

ROOM NO.

DIMENSION	MENSIONS & DOOR/FRAME TYPE:		2000	x	2100	×	44mm	
			ST	DR	×	ST	FR	
QTY.	UNIT	ITEM TYPE		DE1	AILED ITEM	SPECIFIC	ATIONS	FINISH SPECIFICATION
24	PCS	DOOR HINGE		5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION			А	
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTI	LOCK FUNCTION CODE: F86			630	
				, 3 HOURS FI			ACTIVE DOOR SIDE); GRADE JFACTURER'S	
6	SETS	VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (OPPOSITE DOOR)			630		
			HANDLE: 150r	nmL x 16mm [DIAMETER x	48mm ST	ANDOFF, 32mm CLEARANCE	
0			PLATE: 75mm	W x 300mmH	x 2mmT			
6	SETS	DOOR STOP	MAGNETIC DO	ORSTOP WIT	H CATCH SO	CREW MOL	JNT	630
3	SETS	MISCELLANEOUS ITEMS	THRESHOLDS MANUFACTUR				THER HARDWARE PER	A
								×OR PER MANUFACTURER'S SPECIFICATIONS

VER DESCRIPTION 25 OCT 201 FINAL REVISION OF JICA DESIGN TEAM

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

INTERNATIONAL

JICA DETAILED DESIGN STUDY TEAM ORIENTAL CONSULTANTS JAPAN INTERNATIONAL KATAHIRA & ENGINEERS CONSULTANTS FOR TRANSPORTATION CO., LTD. TEAM LEADER TONICHI ENGINEERING CONSULTANTS INC. PACIFIC CONSULTANTS

TITLE SMEC DESIGNER KATO / UCHIDA A. ALLI K. SAKAMOTO N. HAMILTON N. MATSUMOTO I. BARNES ROJ. MANAGER M. MIYATA M. NOTO R. YUZON, JR. 🎮

VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 5

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 AS SHOWN @ A1 SHEET No

Joige Müller

Project Director

This Drawing was originally prepared by JICA design

team and reviewed/adjusted by NSTren Consortium

HW SET: LOCATION OF OPENING DOUBLE DOOR D9 (LOUVER) NO. OF DOORS: 3 ROOM NO LOW VOLTAGE ELECTRICAL RM HIGH VOLTAGE ELCTRICAL RM 105 EMERGENCY GENERATOR RM HANDING: LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT) DIMENSIONS & DOOR/FRAME TYPE: ST DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS QTY. UNIT ITEM TYPE 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION 24 PCS DOOR HINGE 3 SETS CYLINDRICAL LEVER LOCKSET I NCK FUNCTION CODE: 630 INTERCONNECTED SINGLE LOCKING ENTRY (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION 6 SETS VERTICAL PULL HANDLE (BOTH SIDES) STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (OPPOSITE DOOR) 630 HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE 0 PLATE: 75mmW x 300mmH x 2mm1 SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH 6 SETS DOOR CLOSER ASSEMBLY BACKCHECK AND DELAY ACTION: PER MANUFACTURER'S RECOMMENDATION FLUSHED TYPE FOOTBOLTS/ FLUSHBOLTS, THRESHOLDS, ASTRAGAL & OTHER HARDWARE PER 3 SETS MISCELLANEOUS ITEMS MANUFACTURER'S RECOMMENDATION ×OR PER MANUFACTURER'S SPECIFICATIONS HW SET: LOCATION OF OPENING: SINGLE DOOR D10 NO. OF DOORS: 4 FEMALE TOILET 2 ROOM NO 114 217 2F FEMALE TOILET 2 3F FEMALE TOILET 2 421 4F FEMALE TOILET 2 HANDING: LEFT HAND (LH) (SWING IN) DIMENSIONS & DOOR/FRAME TYPE: 900 44mm ST QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S 16 PCS DOOR HINGE RECOMMENDATION 4 SETS VERTICAL PULL HANDLE (PULL SIDE) STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE) 630 HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE 4 SETS PUSH PLATES 300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE) 630 SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; 4 SETS DOOR CLOSER ASSEMBLY WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION 4 SETS MISCELLANEOUS ITEMS THRESHOLDS. & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION ***OR PER MANUFACTURER'S SPECS** HW SET: LOCATION OF OPENING NO. OF DOORS: 4 SINGLE DOOR D10 MALE TOILET 2 ROOM NO 115 220 2F MALE TOILET 2 3F MALE TOILET 2 328 4F MALE TOILET 2 HANDING: RIGHT HAND (RH) (SWING IN) DIMENSIONS & DOOR/FRAME TYPE 900 ST DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS QTY. UNIT ITFM TYPE 4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S 16 PCS DOOR HINGE RECOMMENDATION 4 SETS VERTICAL PULL HANDLE (PULL SIDE) STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE) 630 HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE 4 SETS PUSH PLATES 300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE) 630 SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; 4 SETS DOOR CLOSER ASSEMBLY WITH BACKCHECK AND DELAY ACTION, PER MANUFACTURER'S RECOMMENDATION THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION 4 SETS MISCELLANEOUS ITEMS ***OR PER MANUFACTURER'S SPECS DESIGN CONSULTANT**

LEGEND: DR FR FRAME DOOR/ FRAME MATERIAL: STEEL TYPE SST STAINLESS STEEL TYPE FG FULL GLASS FRML FRAMELESS HARDWARE FINISH CODE STAINLESS STEEL METAL, SATIN 673 ALUMINUM, CLEAR COATED ALUMINUM PAINTED STEEL BASE METAL STAINLESS STEEL BASE METAL

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY. DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY

SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT POSITION.

CYLINDRICAL AND MORTISE LOCK ANSI# F82A ENTRY, OFFICE DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER IS OPERATED, CLOSING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON. F86 STOREROOM / CLOSET / VESTIBULE CORRIDOR, DORMITORY CORRIDOR, DORMITORY CORRIDOR, DORMITORY F95 INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY F76B PRIVACY BATH/BEDROOM PULL ONE SIDE, NO MECHANICAL OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED POSITION BY OPERATING INSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED POSITION BY OPERATING INSIDE LEVER SIDE NOTATING TURN FROM INSIDE OR KEY FROM OUTSIDE FATENDS DEADBOLT TO LOCKED POSITION BY OPERATING INSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED POSITION BY OPERATING INSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED POSITION BY OPERATING INSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED POSITION BY OPERATING INSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED POSITION BY OPERATING INSIDE LEVER. F76B PRIVACY BATH/BEDROOM DEADBOLT, SINGLE-LOCKING ENTRY DUMMY PULL ONE SIDE, NO MECHANICAL OPERATION. Reviewed by NSTren Reviewed by NSTren Reviewed by NSTren	ANSI/BHMA	FUNCTION CODES FOR CYLI	INDRICAL AND MORTISE LOCKSETS			
F82A ENTRY, OFFICE LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON. F86 STOREROOM / CLOSET / VESTIBULE DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED. DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. INSIDE LEVER OR LOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT. ATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED DY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER. POUMMY PULL ONE SIDE, NO MECHANICAL OPERATION. Reviewed by NSTIEN Reviewed by NSTIEN Reviewed by NSTIEN	AND MORTISE	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTT	P://WWW.HAGERCO.COM)		
F96 CORRIDOR, DORMITORY CORRI	F82A	ENTRY, OFFICE	LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS			
F90 CORRIDOR, DORMITORY LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT. LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER. F76B PRIVACY BATH/BEDROOM LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER. DUMMY PULL ONE SIDE, NO MECHANICAL OPERATION. REVIEWED BY NSTIEN DEADLOCK (CYLINDER) DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.	F86	STOREROOM / CLOSET / VESTIBULE		I		
F76B PRIVACY BATH/BEDROOM LATCHBOLT AND UNLOCKED POSITION BY OPERATING INSIDE LEVER. LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER. DUMMY PULL ONE SIDE, NO MECHANICAL OPERATION. Reviewed by NST en DEADLOCK (CYLINDER) Reviewed by NST en	F90	CORRIDOR, DORMITORY	LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON II UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSI	NSIDE. KEY IN OUTSIDE LEVER LOCKS OR ING DOOR RELEASES PUSH BUTTON AND		
F76B PRIVACY BATH/BEDROOM UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER. — DUMMY PULL ONE SIDE, NO MECHANICAL OPERATION. E2161 DEADLOCK (CYLINDER) DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.	F95		EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT			
E2161 DEADLOCK (CYLINDER) DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.	F76B	PRIVACY BATH/BEDROOM				
E2161 DEADLOCK (CYLINDER) DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.	_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.	Reviewed by NSTren		
	E2161	DEADLOCK (CYLINDER)	DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.	MALE		

Project Director HW SET: LOCATION OF OPENING SINGLE DOOR D11 This Drawing was originally prepared by JICA design (LOUVER WITH team and reviewed/adjusted by NSTren Consortium ELECTRICAL CARD KEY ACCESS DOOR) NO. OF DOORS: 1 ROOM NO SECURITY ROOM LEFT HAND REVERSE (LHR) (SWING OUT) HANDING: DIMENSIONS & DOOR/FRAME TYPE: ST ST

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	A
1	SET	MISCELLANEOUS ITEMS	ACCESS CARD/ SECURITY, THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				×OR PER MANUFACTURER'S SPECIFICATIONS

VER 25 OCT 201 FINAL REVISION OF JICA DESIGN TEAM

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES

PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

KATAHIRA & ENGINEERS INTERNATIONAL PACIFIC CONSULTANTS

JICA DETAILED DESIGN STUDY TEAM

ORIENTAL CONSULTANTS

JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD. TEAM LEADER TONICHI ENGINEERING CONSULTANTS INC.

TITLE SMEC DESIGNER KATO / UCHIDA A. ALLI K. SAKAMOTO N. HAMILTON N. MATSUMOTO I. BARNES ROJ. MANAGER M. MIYATA M. NOTO R. YUZON, JR. 🎮

DETAILED DESIGN VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 6

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

OCTOBER 2017 AS SHOWN @ A1 SHEET No.

jorge Müller

CP01-B8-291_R1

HW SET:

LEGEND: LOCATION OF OPENING SINGLE DOOR D12 (WITH ELECTRICAL DR NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING NO. OF DOORS: 5 CARD KEY ACCESS DOOR) FR FRAME DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR DOOR/ FRAME MATERIAL: COMMUNICATION EQUIPMENT RM ST STEEL TYPE POSITIVE LATCHING – ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN 418 **VESTIBULE** SST STAINLESS STEEL TYPE BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP MEETING RM 4 PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL 515 MEETING ROOM FRML FRAMELESS REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH LEFT HAND (LH) (SWING IN HARDWARE FINISH CODE BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME DIMENSIONS & DOOR/FRAME TYPE: STAINLESS STEEL METAL, 1000 44mm OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY. SATIN DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY ST 673 ALUMINUM, CLEAR COATED SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS QTY. UNIT 689 ALUMINUM PAINTED IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S STEEL BASE METAL LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS 20 PCS DOOR HINGE RECOMMENDATION ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT STAINLESS STEEL BASE SETS CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: 630 POSITION METAL ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH ANSI/BHMA FUNCTION CODES FOR CYLINDRICAL AND MORTISE LOCKSETS 5 SETS DOOR CLOSER ASSEMBLY BACKCHECK AND DELAY ACTION, PER MANUFACTURER'S RECOMMENDATION CYLINDRICAL AND MORTISE DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM) **FUNCTION LABEL** THRESHOLDS, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION SETS MISCELLANEOUS ITEMS LOCK ANSI# ×OR PER MANUFACTURER'S DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS SPECIFICATIONS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER ENTRY, OFFICE UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS HW SET: OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON LOCATION OF OPENING SINGLE DOOR D12 (WITH ELECTRICAL DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. CARD KEY ACCESS DOOR NO. OF DOORS: 5 STOREROOM / CLOSET / VESTIBULE OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED. SECURITY ROOM DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR OCC ASSISTANCE RM 414 F90 CORRIDOR DORMITORY UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND 509 GUEST RM UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT. LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE 511 MEETING RM 2 INTERCONNECTED LATCHBOLT AND EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO F95 DEADBOLT, SINGLE-LOCKING ENTRY 514 MEETING ROOM 3 UNLOCKED POSITION BY OPERATING INSIDE LEVER. LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND RIGHT HAND (RH) (SWING IN HANDING: F76B PRIVACY BATH/BEDROOM UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER. DIMENSIONS & DOOR/FRAME TYPE 44mn DUMMY PULL ONE SIDE. NO MECHANICAL OPERATION ST DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS QTY. UNIT ITEM TYPE DEADLOCK (CYLINDER) DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE F 2161 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S PCS DOOR HINGE RECOMMENDATION HW SET: 25 5 SETS CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE 630 LOCATION OF OPENING: SINGLE DOOR D12 NO. OF DOORS: 10 ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION ROOM NO CREW MANAGEMENT CLERK RM SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH 5 SETS DOOR CLOSER ASSEMBLY Reviewed by NSTen CREW MANAGEMENT DIVISION MANAGER RM BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION THRESHOLDS, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION FACILITY MANAGEMENT DIVISION CLERK RN 5 SETS MISCELLANEOUS ITEMS 315 FACILITY MANAGEMENT DIVISION MANAGER RM ***OR PER MANUFACTURER'S SPECIFICATIONS** FACILITY MANAGEMENT DIVISION FEMALE LOCKER RM ELECTRIC MANAGEMENT DIVISION LOUNGE HW SET: Project Director LOCATION OF OPENING: ELECTRIC MANAGEMENT DIVISION MANAGER RM SINGLE DOOR D12 NO. OF DOORS: 4 335 ELECTRIC MANAGEMENT DIVISION CLERK RM ROOM NO. EMERGENCY GENERATOR RN This Drawing was originally prepared by JICA design OCC CLERK RM team and reviewed/adjusted by NSTren Consortium 318 FACILITY MANAGEMENT DIVISION MALE LOCKER RM 413 OCC DIVISION MANAGER RM 319 FACILITY MANAGEMENT LOUNGE HANDING RIGHT HAND (RH) (SWING IN) OCC RM 415 DIMENSIONS & DOOR/FRAME TYPE: 1000 LEFT HAND (LH) (SWING IN) DIMENSIONS & DOOR/FRAME TYPE: ST DR ST 1000 44mm DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS ST 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 40 PCS DOOR HINGE MANUFACTURER'S RECOMMENDATION 5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S PCS DOOR HINGE 10 SETS CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: 630 RECOMMENDATION ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S 4 SETS CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: 630 RECOMMENDATION ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; 10 SETS DOOR CLOSER ASSEMBLY NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH 4 SETS DOOR CLOSER ASSEMBLY RECOMMENDATION BACKCHECK AND DELAY ACTION, PER MANUFACTURER'S RECOMMENDATION THRESHOLDS & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION 4 SETS MISCELLANEOUS ITEMS THRESHOLDS & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION 10 SETS MISCELLANEOUS ITEMS ×OR PER MANUFACTURER'S ×OR PER MANUFACTURER'S SPECIFICATIONS SPECIFICATIONS VER **DESIGN CONSULTANT** THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER OCTOBER 2017 DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES RAILWAY PROJECT (MALOLOS-TUTUBAN) TITLE JICA DETAILED DESIGN STUDY TEAM 25 OCT 201 FINAL REVISION OF JICA DESIGN TEAM AS SHOWN @ A1 ORIENTAL CONSULTANTS DESIGNER KATO / UCHIDA A. ALLI DETAILED DESIGN SHEET No PHILIPPINE NATIONAL RAILWAYS JAPAN INTERNATIONAL K. SAKAMOTO N. HAMILTON VALENZUELA DEPOT-OCC BUILDING KATAHIRA & ENGINEERS CONSULTANTS FOR INTERNATIONAL TRANSPORTATION CO., LTD. TEAM LEADER NSCR-DWG-OCC-AR-3377 N. MATSUMOTO I. BARNES ARCHITECTURAL - SCHEDULE OF HARDWARE PACIFIC CONSULTANTS TONICHI ENGINEERING CONSULTANTS INC. JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SHEET 7 ROJ. MANAGER M. MIYATA M. NOTO R. YUZON, JR. 🎮

CP01-B8-292_R1

HW SE	Τ:		26					
LOCATIO	N OF OPE	NING:	SINGLE DOOR D12			NO. OF DOORS	S: 4	
		ROOM NO.	215	2F FEMALE LOCI	KER RM	<u>'</u>		
				324	3F FEMALE LOCI	KER RM		
				420	OCC FEMALE LO	CKER RM		
				423	OCC MALE LOCK	ER RM		
			HANDING:	RH INWARD OPEN	IING			
IMENSIC	ONS & DO	DR/FRAME TYPE:	1000	×	2100	x	44mm	
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE			DETAILED ITEM S	PECIFICATIONS		FINISH SPECIFICATIONS
12	PCS	DOOR HINGE	5" X 4 1/2" BUT	T HINGE, STEEL, BAI	LL BEARING, GRA	DE 1; PER MANU	FACTURER'S RECOMMENDATION	Α
4	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION	CODE:	F82A			630
			ENTRY/OFFICE L	ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S				
4	SET	DOOR CLOSER ASSEMBLY		URFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH ACKCHECK AND DELAY ACTION: PER MANUFACTURER'S RECOMMENDATION				
4 SET MISCELLANEOUS ITEMS		OPTIONAL VERT		THRESHOLDS, &	OTHER HARDWA	RE PER MANUFACTURER'S	A	
								×OR PER MANUFACTURER'S SPECIFICATIONS
łW SE	T:		27					
	N OF OPE	NING:						
			SINGLE DOOR D1 CARD KEY ACCE	2 (WITH ELECTRICAL SS DOOR)		NO. OF DOORS	S: 1	
			ROOM NO.	109	CLINIC			
			HANDING:	RIGHT HAND REV	ERSE (RHR) (SWIN	IG OUT)		
IMENSIC	ONS & DO	DR/FRAME TYPE:	1000	x	2100	x	44mm	
			ST	DR	×	ST	FR	
QTY.	UNIT	ITEM TYPE			DETAILED ITEM S			FINISH SPECIFICATIONS
4	PCS	DOOR HINGE		5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION			А	
1	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION	CODE:	F82A			630
			ENTRY/OFFICE L RECOMMENDATION		ISTED, 3 HOURS F	FIRE RATING; PE	R MANUFACTURER'S	
1	SETS	DOOR CLOSER ASSEMBLY		TED, REGULAR ARM DELAY ACTION; PE			S FIRE RATING; NON-HANDED; WITH ATION	A
1	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, A	CCESS CARD/ SECUP	RITY & OTHER HA	RDWARE PER M	ANUFACTURER'S	A

								MANUFACTURER'S SPECIFICATIONS
HW SE	T:		28					
LOCATION OF OPENING:			INGLE DOOR D12 (WITH ELECTRICAL ARD KEY ACCESS DOOR)		L NO. OF DOORS: 1			
			ROOM NO.	226	LEFT HAND (LH)	(SWING IN)		
			HANDING:	RH INWARD OPEN	ING			
DIMENSIONS & DOOR/FRAME TYPE:		1000	x	2100	x	44mm		
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE		[DETAILED ITEM SPECIFICATIONS			FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	5" X 4 1/2" LOC RECOMMENDATI		E, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S			А
1	1 SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE:		CODE:	F86			630	
				CLOSET / VESTIBULE R'S RECOMMENDATION		UL-LISTED, 3 HOU	RS FIRE RATING; PER	
1	SET	DOOR STOP	MAGNETIC DOOF	RSTOP WITH CATCH S	CREW MOUNT			630
1 SET MISCELLANEOUS ITEMS THRESHOLDS, ACCESS CARD/ SECURIT RECOMMENDATION			ITY & OTHER HA	RDWARE PER MA	NUFACTURER'S	А		

LEGEN	ID:		
DR	DOOR		
FR	FRAME		
DOOR/ FRAME MATERIAL:			
ST	STEEL TYPE		
SST	STAINLESS STEEL TYPE		
FG	FULL GLASS		
FRML	FRAMELESS		
HARDWA	ARE FINISH CODE:		
630	STAINLESS STEEL METAL, SATIN		
673	ALUMINUM, CLEAR COATED		
689	ALUMINUM PAINTED		
Α	STEEL BASE METAL		
С	STAINLESS STEEL BASE METAL		

	CP01-B8-293 R1
NOTES:	CPU1-D0-293_K1
NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND	D SWING.
DOGGING MECHANISM – MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRA PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE ESCAPE DOORS	•
POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM P	USHING THE DOOR OPEN
BACKCHECK – SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FUL PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OU	
REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOOR	RS MEET

DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY
SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH
IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW.
LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS

DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME

ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT

CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVE UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

HW SET:	29					
LOCATION OF OPENING:	SINGLE DOOR D12		NO. OF DOORS: 1			
	ROOM NO.	229	PANTRY 1	PANTRY 1		
	HANDING:	LEFT HAND (LH)	(SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:	1000	x	2100	x	44mm	
	ST	DR	×	ST	FR	

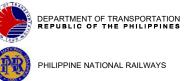
QTY.	UNIT	ITEM TYPE	DE	TAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, S' RECOMMENDATION	A	
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE:	82A	630
			ENTRY/OFFICE LOCK; GRADE 1, UL-LIST RECOMMENDATION	TED, 3 HOURS FIRE RATING; PER MANUFACTURER'S	
1	SET	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PUBACKCHECK AND DELAY ACTION; PER N	JLL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH MANUFACTURER'S RECOMMENDATION	А
1 9	SET	MISCELLANEOUS ITEMS	THRESHOLDS, PEST PROOFING, ASTRA RECOMMENDATION	Α	
					×OR PER
					MANUFACTURER'S
		Reviewed by	NSTren I		SPECIFICATIONS

jorge Müller Project Director

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

VER	DATE	DESCRIPTION
01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM

RECOMMENDATION



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA DETAILED DESIGN STUDY TEAM

ORIENTAL CONSULTANTS

PACIFIC CONSULTANTS CO., LTD.



×OR PER MANUFACTURER'S SPECIFICATIONS

DESIGN CONSULTANT

×OR PER

TITLE SMEC KATO / UCHIDA DESIGNER A. ALLI K. SAKAMOTO N. HAMILTON N. MATSUMOTO J. BARNES R. YUZON, JR. PROJ. MANAGER M. MIYATA M. Woydo

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN) DETAILED DESIGN

VALENZUELA DEPOT-OCC BUILDING

SHEET 8

SHEET No. ARCHITECTURAL - SCHEDULE OF HARDWARE

NSCR-DWG-OCC-AR-3378

OCTOBER 2017

AS SHOWN @ A1

HW SE	Τ:		30					
		SINGLE DOOR D	12	NO. OF DOORS: 2				
		ROOM NO.	320	PANTRY 2				
				309	PANTRY 3			
			HANDING:	RIGHT HAND (R	H) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:		1000	×	2100	x	44mm		
		ST	ST DR x ST FR					
QTY.	UNIT	ITEM TYPE			DETAILED ITEM S	PECIFICATIONS		FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	5" X 4 1/2" LOC RECOMMENDAT		iE, STEEL, BALL BE	ARING, GRADE 1;	PER MANUFACTURER'S	А
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION	I CODE:	F82A			630
			ENTRY/OFFICE RECOMMENDAT		-LISTED, 3 HOURS F	FIRE RATING; PER	R MANUFACTURER'S	
2	SETS	DOOR CLOSER ASSEMBLY			M (PULL SIDE); UL-L PER MANUFACTURE		FIRE RATING; NON-HANDED; WITH ATION	А
2	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, F		STRAGAL & OTHER	HARDWARE PER	MANUFACTURER'S	A
								×OR PER MANUFACTURER'S SPECIFICATIONS

HW SE	T:		31					
LOCATIO	OCATION OF OPENING:		SINGLE DOOR D12	SINGLE DOOR D12 NO. OF DOORS: 4			4	
		ROOM NO.	DOM NO. 215 2F FEMALE LOCKER RM					
				324	3F FEMALE LOCK	KER RM		
				420	OCC FEMALE LOC	CKER RM		
				423	OCC MALE LOCKE	ER RM		
			HANDING:	LEFT HAND (LH)	(SWING IN)			
DIMENSIO	DIMENSIONS & DOOR/FRAME TYPE:		1000	x	2100	x	44mm	
			ST	ST DR x ST FR				
QTY.	UNIT	ITEM TYPE			DETAILED ITEM SE	PECIFICATIONS		FINISH SPECIFICATIONS
16	PCS	DOOR HINGE	5" X 4 1/2" LOOS RECOMMENDATION		, STEEL, BALL BEA	ARING, GRADE 1; I	PER MANUFACTURER'S	A
4	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION C	ODE:	F82A	630		
			ENTRY/OFFICE LO		ISTED, 3 HOURS F	FIRE RATING; PER	MANUFACTURER'S	
4	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION			А		
4	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, & C	THER HARDWARE	PER MANUFACTU	RER'S RECOMMEN	IDATION	Α
								×OR PER MANUFACTURER'S SPECIFICATIONS

HW SE	T:		32					
LOCATION OF OPENING:		SINGLE DOOR D	112					
		ROOM NO.	219	2F MALE LOCKE				
				327	3F MALE LOCKE	R RM		
			HANDING:	RIGHT HAND (F	RH) (SWING IN)			
DIMENSIO	ONS & DOO	OR/FRAME TYPE:	1000	x	2100	x	44mm	
		ST	DR	x	ST	FR		
QTY.	UNIT	ITEM TYPE			DETAILED ITEM S	PECIFICATIONS		FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	5" X 4 1/2" LO RECOMMENDAT		SE, STEEL, BALL BE	ARING, GRADE 1; P	PER MANUFACTURER'S	A
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION	N CODE:	F82A			630
			ENTRY/OFFICE RECOMMENDAT		-LISTED, 3 HOURS F	FIRE RATING; PER	MANUFACTURER'S	
2	SETS	DOOR CLOSER ASSEMBLY			M (PULL SIDE); UL-L PER MANUFACTURE		FIRE RATING; NON-HANDED; WITH TION	A
2	SETS	MISCELLANEOUS ITEMS	THRESHOLDS,	& OTHER HARDWAI	RE PER MANUFACTU	RER'S RECOMMEN	DATION	А
								×OR PER MANUFACTURER'S SPECIFICATIONS

LEGEN	D:			
DR	DOOR			
FR	FRAME			
DOOR/ F	RAME MATERIAL:			
ST	STEEL TYPE			
SST	STAINLESS STEEL TYPE			
FG	FULL GLASS			
FRML	FRAMELESS			
HARDWA	RE FINISH CODE:			
630	STAINLESS STEEL METAL, SATIN			
673	ALUMINUM, CLEAR COATED			
689	ALUMINUM PAINTED			
Α	STEEL BASE METAL			
С	STAINLESS STEEL BASE METAL			

	CP01-B8-294 R1
NOTES:	OF01-00-294_IX1
NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HA	ND SWING.
DOGGING MECHANISM – MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDF PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN TESCAPE DOORS	
POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM	PUSHING THE DOOR OPEN
BACKCHECK – SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FUPREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT O	
REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOO	ORS MEET
DEADLOCKING LATCHBOLT (DEADLATCH) – INCLUDES A GUARDBOLT TO PREVENT "SHIMMIN BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.	
DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WI SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED I IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW.	

LATCH ACTION / LATCH CONTROL – ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT

CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVE UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSII EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

HW SE	Τ:		33					
LOCATIO	N OF OPE	ENING:	SINGLE DOOR D	021 (WITH ELECTRICAL ESS DOOR)		NO. OF DOORS:	1	
			ROOM NO.	132	STORE			
			HANDING:	RH INWARD OPEN	ING			
DIMENSIONS & DOOR/FRAME TYPE:		OOR/FRAME TYPE:	800	x	2100	x	44mm	
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE			DETAILED ITEM SI	PECIFICATIONS		FINISH SPECIFICATIONS
3	PCS	DOOR HINGE	4 1/2" X 4 1/2 RECOMMENDAT		NGE, STEEL, BALL	. BEARING, GRADI	E 1; PER MANUFACTURER'S	A
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION	N CODE:	F86			630
				CLOSET / VESTIBULE R'S RECOMMENDATION		JL-LISTED, 3 HOU	RS FIRE RATING; PER	
1	SET	DOOR STOP	MAGNETIC DOO	RSTOP WITH CATCH S	CREW MOUNT			630
1	SET	MISCELLANEOUS ITEMS		' SECURITY, THRESHO R'S RECOMMENDATION		FING, ASTRAGAL	& OTHER HARDWARE PER	A
		Reviewed by NSTre						×OR PER MANUFACTURER'S SPECIFICATIONS

Project Director

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

hared	VER	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION
AD Sh	01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM		REPUBLIC OF THE PHILIPPINES
X:\Users\C				PR	PHILIPPINE NATIONAL RAILWAYS
Filename:				jica	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA DETAILED DESIGN STUDY TEAM ORIENTAL CONSULTANTS GLOBAL CO., LTD.

PACIFIC CONSULTANTS CO., LTD.

KATAHIRA & ENGINEERS INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD. TONICHI ENGINEERING CONSULTANTS INC.

DESIGN CONSULTANT

	TITLE	JDT	SMEC
	DESIGNER	KATO / UCHIDA	A. ALLI
	CHECK	K. SAKAMOTO	N. HAMILTON
Ο.	TEAM LEADER	N. MATSUMOTO	J. BARNES
	PROJ. MANAGER	M. MIYATA N. WOJO	R. YUZON, JR.

DETAILED DESIGN VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)

OCTOBER 2017 AS SHOWN @ A1 SHEET No.

NSCR-DWG-OCC-AR-3379

SHEET 9

HW SE	T:		35					
LOCATION OF OPENING:		SINGLE DOOR D	SINGLE DOOR D22		NO. OF DOORS:	1		
			ROOM NO.	513	DUCT SPACE 1			
			HANDING:	LEFT HAND (LH) (SWING IN)			
DIMENSIO	NS & DO	OR/FRAME TYPE:	700	x	2100	x	44mm	
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE		·	DETAILED ITEM SP	ECIFICATIONS		FINISH SPECIFICATIONS
3	PCS	DOOR HINGE	4 1/2" X 4 1/2 RECOMMENDAT		HINGE, STEEL, BALL	A		
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION	N CODE:	F95		630	
				ED SINGLE LOCKING R'S RECOMMENDATI		L-LISTED, 3 HOU	RS FIRE RATING; PER	
1	SET	DOOR CLOSER ASSEMBLY		•	M (PULL SIDE); UL-LI PER MANUFACTURER	•	FIRE RATING; NON-HANDED; WITH TION	A
1	SET	MISCELLANEOUS ITEMS	THRESHOLDS,	ASTRAGAL, & OTHE	R HARDWARE PER 1	MANUFACTURER'	S RECOMMENDATION	А
								×OR PER MANUFACTURER'S SPECIFICATIONS

HW SET:			36					
LOCATION OF OPENING:		SINGLE DOO	R D22	NO.	OF DOORS:	1		
			ROOM NO.	512	DUCT SPAC	CE 2		
			HANDING:	RIGHT HAI	ND (RH) (SWIN	G IN)		
DIMENSIONS	& DOOR/FRAME TYPE:		700	x	2100	×	44mm	
			ST	DR	x	ST	FR	
QTY.	UNIT	ITEM TYPE		D	ETAILED ITEM	SPECIFICA	TIONS	FINISH SPECIFICATIONS
3 PCS		DOOR HINGE			2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; TURER'S RECOMMENDATION			A
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNC	TION CODE:	F95			630
					E LOCKING EN JFACTURER'S		E 1, UL-LISTED, 3 HOURS DATION	
1	SET	DOOR CLOSER ASSEMBLY	RATING; NO	N-HANDED;		ECK AND D	UL-LISTED, 3 HOURS FIRE ELAY ACTION; PER	A
1	SET	MISCELLANEOUS ITEMS	THRESHOLD RECOMMENT		AL, & OTHER I	HARDWARE	PER MANUFACTURER'S	А
	R	eviewed by NST en						×OR PER MANUFACTURER'S SPECIFICATIONS

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

LEGEN	D:			
DR	DOOR			
FR	FRAME			
DOOR/ F	RAME MATERIAL:			
ST	STEEL TYPE			
SST	STAINLESS STEEL TYPE			
FG	FULL GLASS			
FRML	FRAMELESS			
HARDWA	RE FINISH CODE:			
630	STAINLESS STEEL METAL, SATIN			
673	ALUMINUM, CLEAR COATED			
689	ALUMINUM PAINTED			
Α	STEEL BASE METAL			
С	STAINLESS STEEL BASE METAL			

HW SET:

DESIGN CONSULTANT

TITLE

LOCATION OF OPENING:

	NOTES: CP01-B8-295_R1
	NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING.
	DOGGING MECHANISM – MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS
_	POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN
-	BACKCHECK – SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL
	REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET
	DEADLOCKING LATCHBOLT (DEADLATCH) – INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.
	DOUBLE EGRESS DOORS – THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH

LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS

ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT

NO. OF DOORS: 3

STOCK ROOM

CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVE UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW.

				336	STOCK RM			
				411	STOCK RM			
			HANDING:	HANDING: RIGHT HAND (RH) ACTIVE (PAIR SWING IN)				
DIMENSIO	NS & DOOR/FRAME TYPE	Ē:	1600	x	2100	x	44mm	
			ST	DR	х	ST	FR	
OTV	LIMIT	ITEM TVDE		DE	TAILEDITEM	CDECIFICA	TIONS	FINICH CDECIFICATION
QTY.	UNIT	ITEM TYPE			TAILED ITEM		*******	FINISH SPECIFICATION
24	PCS	DOOR HINGE		LOOSE-PIN B JRER'S RECON			LL BEARING, GRADE 1; PER	A
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCT	ION CODE:	F86			630
				3 HOURS FIRE			CTIVE DOOR SIDE); GRADE 1, ACTURER'S	
6	SETS	VERTICAL PULL HANDLE (BOTH SIDES)		STEEL DOOR (OPPOSITE D		.E WITH PI	.ATE; SURFACE MOUNT	630
0			HANDLE: 150	OmmL x 16mm	DIAMETER x	48mm ST/	ANDOFF, 32mm CLEARANCE	
0			PLATE: 75m	mW x 300mml	ł x 2mmT			
3	SETS	MISCELLANEOUS ITEMS		FLUSHED TYPE FOOTBOLTS/ FLUSHBOLTS, THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION				А
								×OR PER MANUFACTURER'S SPECIFICATIONS

37

ROOM NO.

DOUBLE DOOR D23

209

Last modified by POLICARPIO-C7 / 05 Jul 2018

VER

Project Director

DATE DESCRIPTION

25 OCT 2017 FINAL REVISION OF JICA DESIGN TEAM

jorge Müller

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES

PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

KATAHIRA & ENGINEERS INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.
PACIFIC CONSULTANTS
CO., LTD.

JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.
TONICHI ENGINEERING CONSULTANTS INC.

PROJ. MANAGEI

JICA DETAILED DESIGN STUDY TEAM

ORIENTAL CONSULTANTS

DESIGNER

KATO / UCHIDA

A. ALLI

CHECK

K. SAKAMOTO

N. HAMILTON

TEAM LEADER

N. MATSUMOTO

J. BARNES

PROJ. MANAGER

M. MIYATA

N. LOPER

R. YUZON, JR.

SMEC

VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 10

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

DRG No.
NSCR-DWG-OCC-AR-3380

SHEET No.

OCTOBER 2017

AS SHOWN @ A1

Bulletin No. 8. Annex F-32

HW SET: LOCATION OF OPENING: DOUBLE EGRESS DOOR D8 (WITH NO. OF DOORS: 1 ELECTRICAL CARD KEY ACCESS ROOM NO. 108 KITCHEN HANDING LEFT HAND (LH) (SWING IN) DIMENSIONS & DOOR/FRAME TYPE: 2000 44mm ST QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S PCS DOOR HINGE RECOMMENDATION SET CYLINDRICAL LEVER LOCKSET LOCK FUNCTION CODE: F82A 630 ENTRY/OFFICE LOCK (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (OPPOSITE DOOR) 630 SETS KICK PLATES (OPTIONAL) 2 0 HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE 0 PLATE: 75mmW x 300mmH x 2mmT SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING: NON-HANDED: 2 SETS DOOR CLOSER ASSEMBLY WITH BACKCHECK AND DELAY ACTION, PER MANUFACTURER'S RECOMMENDATION THRESHOLDS, PEST PROOFING, KICK PLATES, & OTHER HARDWARE PER MANUFACTURER'S SET MISCELL ANEOUS ITEMS ×OR PER MANUFACTURER'S SPECIFICATIONS HW SET: LOCATION OF OPENING: SINGLE DOOR D14 (LOUVER) NO OF DOORS: 16 STAIR 1-GF 110 EPS-2 124 EPS-5 127 PS-6 203 EPS-5 206 PS-6 230 EPS-2 303 EPS-5 PS-6 306 321 EPS-2 EPS-5 403 406 PS-6 426 EPS-2 503 EPS-5 506 PS-6 518 EPS-2 HANDING: RIGHT HAND (RH) (SWING IN) DIMENSIONS & DOOR/FRAME TYPE: 600 44mm \$T ST QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 4 1/2" X 4 1/2" BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S PCS DOOR HINGE 48 RECOMMENDATION 16 SETS MORTISE DEADLOCK LOCK FUNCTION CODE 630 MORTISE DEADLOCK/ DEADBOLT LOCK (KEYED OUTSIDE ONLY); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING: PER MANUFACTURER'S RECOMMENDATION STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE) 16 SETS VERTICAL PULL HANDLE 630 HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE 0 PLATE: 75mmW x 300mmH x 2mm1 300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE) SETS PUSH PLATES 16 630 SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH SETS DOOR CLOSER ASSEMBLY 16 BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION SETS MISCELLANEOUS ITEMS 16 √NR PFR MANUFACTURER'S **SPECIFICATIONS**

LEGEN	ID:
DR	DOOR
FR	FRAME
DOOR/ F	RAME MATERIAL:
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
FG	FULL GLASS
FRML	FRAMELESS
HARDWA	ARE FINISH CODE:
630	STAINLESS STEEL METAL, SATIN
673	ALUMINUM, CLEAR COATED
689	ALUMINUM PAINTED
Α	STEEL BASE METAL
С	STAINLESS STEEL BASE METAL

CP01-B8-296_R1 NOTES: NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE DOORS POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY. DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW. LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT POSITION.

ANSI/BHMA	FUNCTION CODES FOR CYL	NDRICAL AND MORTISE LOCKSETS
CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

								Reviewed by NST en		
HW SE	T:		111~1							
LOCATION OF OPENING:			SINGLE DOOR D	NO. OF DOORS: 2				Musik		
			ROOM NO.		PIT A			Joige Müller		
					PIT B			Project Director		
			HANDING:	LEFT HAND (LH)	(SWING IN)					
DIMENSIONS & DOOR/FRAME TYPE:			900	x	2100	x	44mm			
			ST	DR	x	ST	FR	team and reviewed/adjusted by NSTren Consortiun		
QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS						

-	QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS			
	8	PCS	DOOR HINGE	4 1/2" X 4 1/2" LOOSE-PIN BUTT RECOMMENDATION	1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S ECOMMENDATION				
	2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE:	F95	630			
				1	ITERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER ANUFACTURER'S RECOMMENDATION				
	2	SETS	DOOR CLOSER ASSEMBLY		M (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH PER MANUFACTURER'S RECOMMENDATION	A			
	2	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, ASTRAGAL, & OTHE	R HARDWARE PER MANUFACTURER'S RECOMMENDATION	А			
						×OR PER MANUFACTURER'S SPECIFICATIONS			

VE	₹	DATE			DESCRIPTION	
01		25 OC	T 2017	FINA	AL REVISION OF JICA DESIGN TEAM	

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

KATAHIRA & ENGINEERS INTERNATIONAL PACIFIC CONSULTANTS

JICA DETAILED DESIGN STUDY TEAM

ORIENTAL CONSULTANTS

CONSULTANTS FOR TRANSPORTATION CO., LTD. TEAM LEADER TONICHI ENGINEERING CONSULTANTS INC.

DESIGN CONSULTANT

TITLE SMEC KATO / UCHIDA A. ALLI DESIGNER N. HAMILTON K. SAKAMOTO N. MATSUMOTO I. BARNES ROJ. MANAGER M. MIYATA W. WOTO R. YUZON, JR. 🎮

VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 11

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 AS SHOWN @ A1 SHEET No

Bulletin No. 8, Annex F-33

HW SET: LOCATION OF OPENING: SINGLE DOOR D14 (LOUVER) NO. OF DOORS: 11 STAIR 2-GF 100-B 111 EPS-1 129 EPS-6 208 EPS-6 231 EPS-1 EPS-6 308 322 EPS-EPS-6 427 EPS-1 517 EPS-LEFT HAND (LH) (SWING IN) DIMENSIONS & DOOR/FRAME TYPE: 600 44mm ST ST QTY. ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S 33 PCS DOOR HINGE RECOMMENDATION SETS MORTISE DEADLOCK MORTISE DEADLOCK/ DEADBOLT LOCK (KEYED OUTSIDE ONLY); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE) SETS VERTICAL PULL HANDLE 630 HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE 300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE) SETS PUSH PLATES 630 SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH SETS DOOR CLOSER ASSEMBLY BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION SETS MISCELLANEOUS ITEMS THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION ×OR PER MANUEACTUDED HW SET: LOCATION OF OPENING: SINGLE DOOR D14 (LOUVER) NO. OF DOORS: 7 ROOM NO 117 EPS-3 EPS-4 213 EPS-4 EPS-3 216 331 EPS-3 333 EPS-4 EPS-4 LEFT HAND REVERSE (LHR) (SWING OUT) HANDING: DIMENSIONS & DOOR/FRAME TYPE: ST ST QTY. UNIT ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS 4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S PCS DOOR HINGE RECOMMENDATION SETS MORTISE DEADLOCK LOCK FUNCTION CODE: 630 MORTISE DEADLOCK/ DEADBOLT LOCK (KEYED OUTSIDE ONLY); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE) 7 SETS VERTICAL PULL HANDLE 630 HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE PLATE: 75mmW x 300mmH x 2mm1 300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE) SETS PUSH PLATES 630 SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH SETS DOOR CLOSER ASSEMBLY BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION SETS MISCELLANEOUS ITEMS THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION ×OR PFR MANUFACTURER'S SPECIFICATIONS **DESIGN CONSULTANT**

LEGEN	ID:
DR	DOOR
FR	FRAME
DOOR/ F	RAME MATERIAL:
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
FG	FULL GLASS
FRML	FRAMELESS
HARDWA	ARE FINISH CODE:
630	STAINLESS STEEL METAL, SATIN
673	ALUMINUM, CLEAR COATED
689	ALUMINUM PAINTED
Α	STEEL BASE METAL
С	STAINLESS STEEL BASE METAL

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING. DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR

CP01-B8-297_R1

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW

LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT

CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDI EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

								Reviewed	by NST en
HW SET:			43						12h
LOCATIO	N OF OPE	NING:	SINGLE DOOR D	SINGLE DOOR D14 (LOUVER) NO. OF DOORS: 2				10	
			ROOM NO.		PS-1 (GROUND F	LOOR)		joige	
				417	EPS-3			Project	Director
			HANDING:	RIGHT HAND RE	VERSE (RHR) (SWIN	IG OUT)			
)IMENSI	ONS & DOO	OR/FRAME TYPE:	600	x	2100	x	44mm	This Drawing was origina	Ily prepared by JICA designted by NSTren Consortiun
			ST	DR	×	ST	FR	team and reviewed/adjus	eted by NSTTerr Consortiul
QTY.	UNIT	ITEM TYPE			DETAILED ITEM S	PECIFICATIONS			FINISH SPECIFICATIONS
6	PCS	DOOR HINGE	4 1/2" X 4 1/2" RECOMMENDAT	' LOOSE-PIN BUTT I ION	HINGE, STEEL, BALL	. BEARING, GRAI	DE 1; PER	MANUFACTURER'S	А
2	SETS	MORTISE DEADLOCK	LOCK FUNCTION	N CODE:	E2161				630
				LOCK/ DEADBOLT L ANUFACTURER'S RE		DE ONLY); GRAD	E 1, UL-L	ISTED, 3 HOURS FIRE	
2	SETS	VERTICAL PULL HANDLE	STAINLESS ST	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)					
			HANDLE: 150mm	nL x 16mm DIAMETER	R x 48mm STANDOF	F, 32mm CLEAR	ANCE		
			PLATE: 75mmW	x 300mmH x 2mmT					
2	SETS	PUSH PLATES	300mm X 100mr	300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE) 630					
2	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION						
2	SETS	MISCELLANEOUS ITEMS	THRESHOLDS,	ASTRAGAL, & OTHE	R HARDWARE PER	MANUFACTUREF	R'S RECON	MMENDATION	Α
									×OR PER MANUFACTURER'S SPECIFICATIONS

VER	DATE	DESCRIPTION
01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM

DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES PHILIPPINE NATIONAL RAILWAYS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA DETAILED DESIGN STUDY TEAM ORIENTAL CONSULTANTS

KATAHIRA & ENGINEERS CONSULTANTS FOR TRANSPORTATION C PACIFIC CONSULTANTS

TRANSPORTATION CO., LTD. TEAM LEADER TONICHI ENGINEERING CONSULTANTS INC.

TITLE DESIGNER KATO / UCHIDA A. ALLI K. SAKAMOTO N. HAMILTON N. MATSUMOTO J. BARNES PROJ. MANAGER M. MIYATA M. MOTO R. YUZON, JR. 🎮

DETAILED DESIGN VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 12

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

OCTOBER 2017 AS SHOWN @ A1 SHEET No

HW SET: LOCATION OF OPENING: SINGLE SLIDING DOOR D15 NO. OF DOORS: 3 2F MALE SHOWER RM 329 3F MALE SHOWER RM 425 4F MALE SHOWER RM HANDING: LEFT HAND SLIDING DOOR DIMENSIONS & DOOR/FRAME TYPE: 900 44mm ST QTY. UNIT ITEM TYPE **DETAILED ITEM SPECIFICATIONS** FINISH SPECIFICATIONS TOP HUNG SLIDING DOOR TRACK SYSTEM; ROUND RAIL TRACK, SIDEWALL MOUNTED; METAL ROUND DOOR TRACK SYSTEM & SETS RAIL DOOR HANGERS (1 PAIR PER SET), BALL BEARING; PER MANUFACTURER'S DESIGN & ASSEMBLY SPECIFICATIONS METAL BOTTOM / FLOOR MOUNTED GUIDE; PER MANUFACTURER'S DESIGN & SPECIFICATIONS SETS DOOR GUIDE SUPPORT BRACKETS & RAIL BRACKET AT 500 MM - 600 MM ON CENTER SPACING, OR PER MANUFACTURER'S DESIGN & SETS ASSEMBLY SPECIFICATIONS TOP HUNG TRACK COVER/ SETS PER MANUFACTURER'S DESIGN & SPECIFICATIONS RAIL FLASHING DOOR PULL / VERTICAL PULL | STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX SETS 630 6 HANDLE (BOTH SIDES) HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE END STOP, BUMPER SHOES, DOOR BUMPERS, BOLTS, FASTENERS, ASTRAGALS, STAY ROLLERS, JAMB SETS MISCELLANEOUS ITEMS 3 LATCHES, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS SPECIFICATIONS LOCATION OF OPENING SINGLE SLIDING DOOR D15 NO OF DOORS: 3 2F FEMALE SHOWER RM ROOM NO 3F FEMALE SHOWER RM 422 4F FEMALE SHOWER RM HANDING: RIGHT HAND SLIDING DOOR DIMENSIONS & DOOR/FRAME TYPE: 900 44mm ST ITEM TYPE DETAILED ITEM SPECIFICATIONS FINISH SPECIFICATIONS TOP HUNG SLIDING DOOR TRACK SYSTEM; ROUND RAIL TRACK, SIDEWALL MOUNTED; METAL ROUND DOOR TRACK SYSTEM & SETS RAIL DOOR HANGERS (1 PAIR PER SET), BALL BEARING; PER MANUFACTURER'S DESIGN & SPECIFICATIONS SETS DOOR GUIDE METAL BOTTOM / FLOOR MOUNTED GUIDE; PER MANUFACTURER'S DESIGN & SPECIFICATIONS RAIL BRACKET AT 500 MM - 600 MM ON CENTER SPACING, OR PER MANUFACTURER'S DESIGN & SETS ASSEMBLY SPECIFICATIONS METAL PULL HANDLE: PER MANUFACTURER'S DESIGN & SPECIFICATIONS SETS DOOR PULL 3 DOOR PULL / VERTICAL PULL | STAINLESS STEEL DOOR PULL HANDLE WITH PLATE: SURFACE MOUNT VISIBLE FIX SETS 630 HANDLE (BOTH SIDES) HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF 32mm CLEARANCE END STOP, BUMPER SHOES, DOOR BUMPERS, BOLTS, FASTENERS, ASTRAGALS, STAY ROLLERS, JAMB SETS MISCELLANEOUS ITEMS LATCHES, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS ×OR PER MANUFACTURER'S SPECIFICATIONS HW SET: LOCATION OF OPENING MOVABLE PARTITION WALL D16 NO. OF DOORS: 2 ROOM NO CONFERENCE RM-2 313 CONFERENCE RM-3 RIGHT HAND FOLD HANDING DIMENSIONS & DOOR/FRAME TYPE: 80mm (PER MANUFACTURER'S SPECIFICATIONS) 5150 ALUM ALUM **DETAILED ITEM SPECIFICATIONS** FINISH SPECIFICATIONS QTY. PARTITION SYSTEM, TRACK & TOP HUNG SINGLE PANEL SLIDING FOLDING PARTITION SYSTEM, END FOLD LAYOUT, 90-DEGREE TROLLEY ASSEMBLY STACKING CONFIGURATION; PER MANUFACTURER'S DESIGN & SPECIFICATIONS LAMINATED SURFACE ACOUSTIC PANELS (WITHOUT PASS DOOR), INCLUDING COVER PLATE, ACOUSTIC DOOR, AND SURFACE SETS PANELS FINISH (TO BE FINISH; PER MANUFACTURER'S DESIGN & SPECIFICATIONS FINALIZED) SETS PULL / HANDLE FLUSH PULL (BOTH SIDES); PER MANUFACTURER'S DESIGN & SPECIFICATIONS 689 FLUSHBOLT, TOP AND BOTTOM PIVOTS, HINGES, SPANNER, CHANNELS, GUIDE, THRESHOLD, TOP BOTTOM AND CORNER SEALS, ASTRAGALS, DOOR STOP, FRAME SEALOR, SOUND PROOFING MATERIAL, SETS MISCELLANEOUS ITEMS 689 RETRACTABLE MECHANISM, PARTITION FRAME, SOUND-PROOFING MAGNETIC STRIP, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS ***OR PER MANUFACTURER'S**

LEGEND:							
DR	DOOR						
FR	FRAME						
DOOR/ FRAME MATERIAL:							
ST STEEL TYPE							
SST	STAINLESS STEEL TYPE						
FG	FULL GLASS						
FRML	FRAMELESS						
HARDWA	ARE FINISH CODE:						
630	STAINLESS STEEL METAL, SATIN						
673	ALUMINUM, CLEAR COATED						
689	ALUMINUM PAINTED						
Α	STEEL BASE METAL						
С	STAINLESS STEEL BASE METAL						

NOTES: NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT, ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY. DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY

IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW.	
LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DO	OR IS
ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INT	O SHUT
POSITION	

SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH

CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

HW SE	Τ:		47						Müller Director
LOCATION OF OPENING:		MOVABLE PARTITION WALL D17 NO. OF DOORS: 2					Troject	Director	
			ROOM NO.	312	CONFERENCE RM-2		This Drawing was originally prepared by JIC		
				313	CONFERENCE RM	-3			sted by NSTren Consortiu
			HANDING:	LEFT HAND FOLD)				
DIMENSIO	NS & DO	DR/FRAME TYPE:	2150	x	2700	x	80mm	(PER MANUFACTURER'S SE	PECIFICATIONS)
			ALUM	DR	×	ALUM	FR		
QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS				FINISH SPECIFICATIONS	
2	SETS	PARTITION SYSTEM, TRACK & TROLLEY ASSEMBLY		TOP HUNG SINGLE PANEL SLIDING FOLDING PARTITION SYSTEM, END FOLD LAYOUT, 90-DEGREE STACKING CONFIGURATION; PER MANUFACTURER'S DESIGN & SPECIFICATIONS				689	
2	SETS	PANELS		COUSTIC PANELS (WITHOUT PASS DOOR), INCLUDING COVER PLATE, ACOUSTIC DOOR, AND SURFACE INISH, PER MANUFACTURER'S DESIGN & SPECIFICATIONS				IC DOOR, AND SURFACE	LAMINATED SURFACE FINISH (TO BE FINALIZED)
2	SETS	PULL / HANDLE	FLUSH PULL (BO	OTH SIDES); PER MAI	NUFACTURER'S DE	SIGN & SPECIFIC	ATIONS		689
2	5 SETS MISCELLANEOUS ITEMS FLUSHBOLT, TOP AND BOTTOM PIVOTS, HINGES, SPANNER, CHANNELS, GUIDE, THRESHOLD, TOP, BOTTOM AND CORNER SEALS, ASTRAGALS, DOOR STOP, FRAME SEALOR, SOUND PROOFING MATERIAL RETRACTABLE MECHANISM, PARTITION FRAME, SOUND-PROOFING MAGNETIC STRIP, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS				689				
									×OR PER MANUFACTURER'S SPECIFICATIONS

VE	R	DA	TE		DESCRIPTION	
01		25 OC	T 2017	FINA	AL REVISION OF JICA DESIGN TEAM	

PHILIPPINE NATIONAL RAILWAYS

JICA DETAILED DESIGN STUDY TEAM

KATAHIRA & ENGINEERS CONSULTANTS FOR INTERNATIONAL TRANSPORTATION CO., LTD. TONICHI ENGINEERING CONSULTANTS INC. PACIFIC CONSULTANTS

ORIENTAL CONSULTANTS

TITLE SMEC DESIGNER KATO / UCHIDA A. ALLI K. SAKAMOTO N. HAMILTON TEAM LEADER N MATSUMOTO / RARNES ROJ. MANAGER M. MIYATA R. YUZON, JR.

DESIGN CONSULTANT

VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 13

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 AS SHOWN @ A1 SHEET No

CP01-B8-298_R1

NSCR-DWG-OCC-AR-3383

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

HW SET: 48 LOCATION OF OPENING: MOVABLE PARTITION WALL D19 NO. OF DOORS: 1 TRAINING RM ROOM NO. 410 HANDING: NON-HANDED DIMENSIONS & DOOR/FRAME TYPE 80mm (PER MANUFACTURER'S SPECIFICATIONS) 5050 4000 ALUM DR ALUM FINISH DETAILED ITEM SPECIFICATIONS **SPECIFICATIONS** PARTITION SYSTEM, TRACK & TOP HUNG SLIDING BI-FOLDING PARTITION SYSTEM, END FOLD LAYOUT (EACH SIDE), 90-DEGREE SET 689 STACKING CONFIGURATION; PER MANUFACTURER'S DESIGN & SPECIFICATIONS TROLLEY ASSEMBLY LAMINATED SURFACE ACOUSTIC PANELS (WITHOUT PASS DOOR), INCLUDING COVER PLATE, ACOUSTIC DOOR, AND SURFACE SET PANFLS FINISH (TO BE FINISH; PER MANUFACTURER'S DESIGN & SPECIFICATIONS FINALIZED) 2 SETS PULL / HANDLE FLUSH PULL (BOTH SIDES): PER MANUFACTURER'S DESIGN & SPECIFICATIONS FLUSHBOLT, HINGES, PIVOT BRACKETS, JAMB BRACKET, TOP AND BOTTOM PIVOTS, HINGES, FLUSH BOLT, ALIGNER, SPANNER, TOP GUIDE, TOP, BOTTOM AND CORNER SEALS, ASTRAGALS, DOOR STOP, MISCELLANEOUS ITEMS FRAME SEALOR, SOUND PROOFING MATERIAL, RETRACTABLE MECHANISM, PARTITION FRAME, SET 689 SOUND-PROOFING MAGNETIC STRIP, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & ×OR PER MANUFACTURER'S SPECIFICATIONS HW SET: LOCATION OF OPENING DOUBLE GLASS DOOR D1 (WITH ELECTRICAL CARD KEY ACCESS NO. OF DOORS: ROOM NO. 101-B ENTRANCE LOBBY HANDING: DOUBLE ACTING DOOR DIMENSIONS & DOOR/FRAME TYPE 12mm 2000 FG DR ALUM FR FINISH QTY. DETAILED ITEM SPECIFICATIONS SPECIFICATIONS ALUMINUM HINGE, 2-4 SETS PER DOOR; PER MANUFACTURER'S RECOMMENDATION SETS DOUBLE ACTION SPRING HINGE 673 2 FRAME DOOR / BOTTOM RAIL ALUMINUM FLOOR LOCKING LOCK, KEYED; PER MANUFACTURER'S RECOMMENDATION SETS 2 673 ALUMINUM FLOOR SPRING DOOR CLOSER (CENTER HUNG, DOUBLE ACTION), INCLUDING TOP PIVOT DOUBLE LEAF FLOOR SPRING BOTTOM ARM, SPINDLE, COVER PLATE, AND CLOSER AND CEMENT CASE; OPTIONAL HOLD-OPEN SET DOOR CLOSER & ASSEMBLY 673 FEATURE, WITH ADJUSTABLE CLOSING SPEED, LATCHING ACTION, BACKCHECK, PER MANUFACTURER'S RECOMMENDATION PULL DOOR HANDLE (BOTH DOOR HANDLE, GLASS MOUNT; BAR STYLE; 2" DIA X 1200mm ALUMINUM HANDLE; PER 4 SETS 673 SIDES) MANUFACTURER'S RECOMMENDATION 3MM SECURITY FILM, THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MISCELLANEOUS ITEMS SET 673 ×OR PER MANUFACTURER'S SPECIFICATIONS HW SET: LOCATION OF OPENING: DOUBLE GLASS DOOR D18 ROOM NO. 429 VIEWING AREA (OUTSIDE) HANDING: DOUBLE ACTING DOOR DIMENSIONS & DOOR/FRAME TYPE: 1390 12mm FR ALUM FINISH DETAILED ITEM SPECIFICATIONS **ITEM TYPE** SPECIFICATIONS SETS DOUBLE ACTION SPRING HINGE ALUMINUM HINGE, 2-4 SETS PER DOOR; PER MANUFACTURER'S RECOMMENDATION 673 2 FRAME DOOR / BOTTOM RAIL ALUMINUM FLOOR LOCKING LOCK, KEYED; PER MANUFACTURER'S RECOMMENDATION 2 SETS 673 ALUMINUM FLOOR SPRING DOOR CLOSER (CENTER HUNG, DOUBLE ACTION), INCLUDING TOP PIVOT. DOUBLE LEAF FLOOR SPRING BOTTOM ARM, SPINDLE, COVER PLATE, AND CLOSER AND CEMENT CASE; OPTIONAL HOLD-OPEN SET DOOR CLOSER & ASSEMBLY 673 FEATURE, WITH ADJUSTABLE CLOSING SPEED, LATCHING ACTION, BACKCHECK; PER MANUFACTURER'S (PAIR) RECOMMENDATION PULL DOOR HANDLE (BOTH DOOR HANDLE, GLASS MOUNT; BAR STYLE; 2" DIA X 1200mm ALUMINUM HANDLE; PER SETS 673 SIDES) MANUFACTURER'S RECOMMENDATION 3MM SECURITY FILM, THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY & OTHER HARDWARE PER SET MISCELLANEOUS ITEMS 673 MANUFACTURER'S RECOMMENDATION ×OR PER

LEGEND: DR DOOR FR FRAME DOOR/ FRAME MATERIAL: ST STEEL TYPE SST STAINLESS STEEL TYPE FG FULL GLASS FRML FRAMELESS HARDWARE FINISH CODE STAINLESS STEEL METAL, 630 673 ALUMINUM, CLEAR COATED ALUMINUM PAINTED STEEL BASE METAL STAINLESS STEEL BASE

NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT, ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

DOUBLE EGRESS DOORS - THIS TYPE OF APPLICATION IS ALWAYS A PAIR OF DOORS IN WHICH THE DOORS CAN ONLY SWING IN THE OPPOSITE DIRECTION. ADDITIONALLY, EACH DOOR CAN ONLY BE OPERATED FROM ACTING LEAF SIDE, WHICH IS TYPICALLY THE PUSH/RIGHT SIDE TO COINCIDE WITH THE TRAFFIC FLOW LATCH ACTION / LATCH CONTROL - ALLOWS FOR THE DOOR CLOSER TO HAVE ENOUGH ACCELERATION WHEN THE DOOR IS ALMOST CLOSED TO DRIVE THE LATCH BOLT OVER THE STRIKE PLATE, TO ENSURE THAT THE DOOR WILL SWING INTO SHUT POSITION

CYLINDRICAL AND MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN OUTSIDE LEVER IS LOCKED, OPERATING KEY IN OUTSIDE LEVER UNLOCKS LOCKING DEVICE. LOCKING DEVICE SHALL AUTOMATICALLY RELEASE WHEN INSIDE LEVER IS OPERATED, CLOSING DOOR DOES NOT RELEASE PUSH BUTTON.
F86	STOREROOM / CLOSET / VESTIBULE	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR BY OPERATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED. INSIDE LEVER IS ALWAYS UNLOCKED.
F90	CORRIDOR, DORMITORY	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER OR BY PUSH BUTTON ON INSIDE. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. OPERATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON AND UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATES LATCHBOLT.
F95	INTERCONNECTED LATCHBOLT AND DEADBOLT, SINGLE-LOCKING ENTRY	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. ROTATING TURN FROM INSIDE OR KEY FROM OUTSIDE EXTENDS DEADBOLT TO LOCKED POSITION. BOTH DEADBOLT AND LATCHBOLT ARE RETRACTED TO UNLOCKED POSITION BY OPERATING INSIDE LEVER.
F76B	PRIVACY BATH/BEDROOM	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE OR OPERATING INSIDE LEVER.
_	DUMMY	PULL ONE SIDE, NO MECHANICAL OPERATION.

HW SE	T:		51							
			DOUBLE GLASS (ELECTRICAL CAR DOOR)			NO. OF DOORS	: 1	Joige Müller Project Director		
			ROOM NO.	107-A	CANTEEN-GF			This Drawing was originally prepared by JICA		
			HANDING:	DOUBLE ACTING	DOOR			team and reviewed/adjusted by NSTren Consor		
			2000	x	2400	x	12mm			
			FG	DR	×	ALUM	FR			
QTY.	UNIT	ITEM TYPE		DETAILED ITEM SPECIFICATIONS					FINISH SPECIFICATIONS	
2	SETS	DOUBLE ACTION SPRING HINGE	ALUMINUM HINGE	UMINUM HINGE, 2-4 SETS PER DOOR; PER MANUFACTURER'S RECOMMENDATION 673					673	
2	SETS	FRAME DOOR / BOTTOM RAIL LOCK	ALUMINUM FLOOP	R LOCKING LOCK, F	(EYED; PER MANUF	ACTURER'S RECO	OMMEN	DATION	673	
1	SET	DOUBLE LEAF FLOOR SPRING DOOR CLOSER & ASSEMBLY (PAIR)	BOTTOM ARM, SE	PINDLE, COVER PL ADJUSTABLE CLO	ATE, AND CLOSER	AND CEMENT CAS	SE; OP	CLUDING TOP PIVOT, TIONAL HOLD-OPEN K; PER MANUFACTURER'S	673	
4	SETS	PULL DOOR HANDLE (BOTH SIDES)		LASS MOUNT; BA S RECOMMENDATI	R STYLE; 2" DIA X ON	1200mm ALUMINU	JM HAN	NDLE; PER	673	
1 SET MISCELLANEOUS ITEMS				ILM, THRESHOLDS S RECOMMENDATI		SS CARD/ SECU	RITY &	OTHER HARDWARE PER	673	
									×OR PER MANUFACTURER'S SPECIFICATIONS	

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 VEF	₹	D	ATE		DESCRIPTION	
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DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES PHILIPPINE NATIONAL RAILWAYS

KATAHIRA & ENGINEERS INTERNATIONAL PACIFIC CONSULTANTS

JICA DETAILED DESIGN STUDY TEAM

ORIENTAL CONSULTANTS

CONSULTANTS FOR TRANSPORTATION CO., LTD. TEAM LEADER TONICHI ENGINEERING CONSULTANTS INC.

MANUFACTURER'S SPECIFICATIONS

DESIGN CONSULTANT

TITLE SMEC KATO / UCHIDA DESIGNER A. ALLI K. SAKAMOTO N. HAMILTON N. MATSUMOTO I. BARNES ROJ. MANAGER M. MIYATA M. Noga-R. YUZON, JR.

VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 14

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

OCTOBER 2017 AS SHOWN @ A1 SHEET No

CP01-B8-299_R1

NSCR-DWG-OCC-AR-3384

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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HW SE	T:		01					
	N OF OPENING	:	MOTORIZED ROLL-UP DOORS D1 AND D2 NO. OF DOORS: 15					
			ROOM NO.		MAIN BUILDING	ENTRANCE	'	
					FINAL ADJUST	MENT		
					UNSCHEDULED			
					UNDER FLOOR)	
			HANDING:	NON-HANDED				
DIMENSIC	NS & DOOR/F	RAME TYPE:	VARIES	x	VARIES	x	GA 18 (1.2mm)	
			SST	DR	x	SST	FR	
							T T	
QTY.	UNIT	ITEM TYPE			DETAILED ITEM S	SPECIFICATIONS	i	FINISH SPECIFICATIONS
15	SETS	DOOR CURTAIN	GA 18 C-TYPE S DESIGN & SPECI		PROFILE WITH	VENTILATION H	OLES ; PER MANUFACTURER'S	630
15	SETS	DOOR TRACKS & GUIDES	MANUALLY-OPE	ERATED; PER MAI	NUFACTURER'S [ESIGN & SPECI	FICATIONS	С
15	SETS	BRACKET PLATES & ASSEMBLY	PER MANUFACT	URER'S DESIGN &	SPECIFICATIONS	5		С
15	SETS	SPRING COUNTERBALANCE	PER MANUFACT	URER'S DESIGN &	SPECIFICATION:	5		С
15	SETS	HOOD WEATHERSTRIP	PER MANUFACT	URER'S DESIGN &	SPECIFICATIONS	5		С
15	SETS	HOOD BRUSH WEATHERSTRIP	PER MANUFACT	URER'S DESIGN &	SPECIFICATIONS	5		С
15	SETS	BOTTOM WEATHERSTRIP	PER MANUFACT	PER MANUFACTURER'S DESIGN & SPECIFICATIONS				
15	SETS	STORM SHIELD THRESHOLD	PER MANUFACT	URER'S DESIGN &	SPECIFICATIONS	5		С
15	SETS	MISCELLANEOUS ITEMS	ELECTRIC MOTO DOOR/LIFT HAN CHAIN ASSEMBL APPLICABLE, &	С				
								×OR PER MANUFACTURER DESIGN AND SPECIFICATIONS
HW SE	т.		02					
	N OF OPENING	:	CHAIN BLOCK OF			NO. OF DOORS	5: 3	
			ROOM NO.		SUBSTATION H	IIGH VOLTAGE		
					BOILER ROOM			
					COMPRESSOR I	ROOM		
			HANDING:	NON-HANDED				
IMENSIC	NS & DOOR/F	RAME TYPE:	VARIES	x	VARIES	x	GA 18 (1.2mm)	
			SST	DR	x	SST	FR	
								Emilen
QTY.	UNIT	ITEM TYPE	CA 10 C TVDE C		DETAILED ITEM S			FINISH SPECIFICATIONS
3	SETS	DOOR CURTAIN	DESIGN & SPECI		- FRUFILE WITH	VENTILATION H	OLES ; PER MANUFACTURER'S	630

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
3	SETS	DOOR CURTAIN	GA 18 C-TYPE STAINLESS STEEL PROFILE WITH VENTILATION HOLES; PER MANUFACTURER'S DESIGN & SPECIFICATIONS	630
3	SETS	DOOR TRACKS & GUIDES	MANUALLY-OPERATED; PER MANUFACTURER'S DESIGN & SPECIFICATIONS	С
3	SETS	BRACKET PLATES & ASSEMBLY	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	С
3	SETS	SPRING COUNTERBALANCE	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	С
3	SETS	HOOD WEATHERSTRIP	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	С
3	SETS	HOOD BRUSH WEATHERSTRIP	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	С
3	SETS	BOTTOM WEATHERSTRIP	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	С
3	SETS	STORM SHIELD THRESHOLD	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	С
3	SETS	MISCELLANEOUS ITEMS	CHAIN HOIST, DOOR STOP, DOOR MOUNTING BRACKETS, DOOR/LIFT HANDLE, DOOR LATCH KIT, DOOR AXLE ASSEMBLY, NOISE DAMPENER, SAFETY CHAIN ASSEMBLY, LOCKING, FELT MATERIAL, HINGES, ASTRAGAL, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS	С
		Rev	viewed by NSTren	×OR PER MANUFACTURER' DESIGN AND SPECIFICATIONS

DR DOOR
FR FRAME

DOOR/FRAME MATERIAL:
ST STEEL TYPE

SST STAINLESS STEEL TYPE

HARDWARE FINISH CODE:
630 STAINLESS STEEL
METAL, SATIN

A STEEL BASE METAL
STAINLESS STEEL BASE
METAL

NOTES:

NON-HANDED – THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING.
DOGGING MECHANISM – MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION,
TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN
THE DOOR IS SECURED; FOR ESCAPE DOORS

POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN

BACKCHECK - SLOWS THE DOOR THAT IS IN THE OPENING SWING (FELT WHEN NEAR THE FULLY OPEN POSITION) TO HELP PREVENT THE DOOR FROM HITTING AN ADJACENT WALL OR HAVING THE WIND THROW IT OUT OF ONE'S CONTROL

CP01-B8-581_R1

REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

MORTISE LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://www.hagerco.com, http://gcsupplied.com)
F05	CLASSROOM	LATCHBOLT RETRACTED BY LEVER FROM EITHER SIDE UNLESS OUTSIDE IS LOCKED BY KEY. UNLOCKED FROM OUTSIDE BY KEY. INSIDE LEVER ALWAYS FREE FOR IMMEDIATE EXIT. AUXILARY LATCH DEADLOCKS LATCHBOLT WHEN DOOR IS CLOSED.
F09	ENTRY/ APARTMENT ENTRANCE	LATCHBOLT RETRACTED BY LEVER FROM EITHER SIDE UNLESS OUTSIDE IS LOCKED BY KEY FROM INSIDE. WHEN LOCKED, LATCHBOLT RETRACTED BY KEY OUTSIDE OR LEVER INSIDE. AUXILARY LATCH DEADLOCKS WHEN DOOR IS CLOSED.
F13	CORRIDOR (W/ DEADBOLT)	LATCHBOLT RETRACTED BY LEVER FROM EITHER SIDE. DEADBOLT THROWN OR RETRACTED BY KEY OUTSIDE OR THUMBTURN SIDE. THROWING DEADBOLT LOCKS OUTSIDE LEVER. TURNING INSIDE LEVER SIMULTANEOUSLY RETRACTS DEADBOLT AND LATCHBOLT AND UNLOCKS THE OUTSIDE LEVER.
E2161	CYLINDER	DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.
E2141	DEADLOCK (DOUBLE CYLINDER)	DEADBOLT THROWN OR RETRACTED BY KEY FROM EITHER SIDE. BOLT AUTOMATICALLY DEADLOCKS WHEN FULLY THROWN.

HW SET:	03	03				
LOCATION OF OPENING:	SINGLE DOOR EXIT) TYPE A	D8 (EMERGENCY		NO. OF DOOF	RS: 14	
	ROOM NO.	MAIN BUILDING ENTRANCE				
		FINAL ADJUSTMENT SHOP				
			UNSCHEDULED	DULED REPAIR SHOP		
			EMERGENCY EX	KITS		
			UNDER FLOOR	CLEANING		
	HANDING:	RH OUTSWING				
DIMENSIONS & DOOR/FRAME TYPE:	1000	×	2100	x	44mm	
	ST	DR	×	ST	FR	

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
56	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	Α
14	SET	MORTISE LEVER LOCKSET	LOCK FUNCTION CODE: E2161	
0			MORTISE DEADLOCK/ DEADBOLT LOCK (KEYED OUTSIDE ONLY); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
14	SETS	DOOR PANIC HARDWARE	SURFACE MOUNTED HORIZONTAL "CRASH BAR" EXIT DEVICE (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; W/ POSITIVE LATCHING ASSEMBLY, BOLTS & OPTIONAL DOGGING MECHANISM FEATURE; PER MANUFACTURER'S RECOMMENDATION	А
14	SETS	DOOR CLOSER ASSEMBLY	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	Α
14	SETS	MISCELLANEOUS ITEMS	EXIT STOPPER DOOR ALARM, ASTRAGAL, THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	А
				×OR PER MANUFACTUREF DESIGN AND SPECIFICATION



Joige Müller



This Drawing was originally prepared by JICA design

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_		W		_

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER
RAILWAY PROJECT (MALOLOS-TUTUBAN)

DETAILED DESIGN

VALENZUELA DEPOT-WORKSHOP
ARCHITECTURAL - SCHEDULE OF HARDWARES
SHEET 1

OCTOBER 2017
SCALE
AS SHOWN @ A1

SHEET No.

DRG No.
NSCR-DWG-WS-AR-3371
DRG S.

DESCRIPTION	APPLICATION / SUBSTRATE	APPLICATION PROCEDURE	THICKNESS	REMARKS	DESCRIPTION	APPLICATION / SUBSTRATE	APPLICATION PROCEDURE	THICKNESS	CP01-R8 ₇ 585_R
XTERIOR SYSTEMS									
01 METAL, NON-FERROUS					04 GYPSUM / PLASTER BOARD				
LOW VOC, ALKYD RESIN TYPE, 3 COAT SYSTEM					WATER-BASED LATEX, 3 COAT SYSTEM			1 1 F MIL C / COAT	
1. ONE COAT OF ALKYD TYPE PRIMER	GUARD POST	BRUSH OR ROLLER	1-1.5 MILS / COAT (PRIMER COATING)		1. ONE COAT OF LATEX PRIMER SEALER	GYPSUM BOARD WALLS	ROLLER OR BRUSH	1-1.5 MILS / COAT (PRIMER COAT) 1-1.5 MILS / COAT	
2. SEMI-GLOSS; TWO COATS OF ALKYD ENAMEL	EXTERIOR EXPOSED VALVES	BRUSH OR ROLLER	1-1.5 MILS / COAT (SECONDARY / TOP		2. EGSSHEL; TWO COATS OF LATEX ENAMEL	GYPSUM BOARD DRY LININGS	ROLLER OR BRUSH	(SECONDARY / TOP COAT)	
<u> </u>	METER AND VALVE COVERS	DDUCH OD DOULED	COATING)		-	SOFFITS	ROLLER OR BRUSH		
	METER AND VALVE COVERS	BRUSH OR ROLLER	+		3. FLAT; TWO COATS OF LATEX ENAMEL	PLASTER & GYPSUM CEILINGS	ROLLER OR BRUSH		
LATETAL SERBOLIS DRIVED									
02 METAL, FERROUS, PRIMED									
LOW VOC, TWO COMPONENT FLOURINE AND POLY URETHANE COATING					05 WOOD		•		•
ORETTIANE COATING			2-3 MILS (51-76		OIL BASED STAIN, 3 COATS SYSTEM				
	HOLLOW METEL DOOR AND FRAMES	SPRAY	MICRONS) PRIMER		1. BASE COAT- OIL WOOD STAIN	WOODEN DOOR FRAME	BRUSH OR ROLLER	1.5 MICRONS / COAT	·
1. ALKYD TYPE PRIMER			COATING		2. MID COAT; SANDING SEALER				
			2-3 MILS (51-76		3. TOP COAT; CLEAR GLOSS POLYURETHANE				
2. LOW VOC FLUOROURETHANE FINISH, TWO COAT	STEEL LOUVERS	SPRAY	MICRONS) SECOND &		COATING				
SYSTEM			TOP COATING						
	STEEL ROOF	SPRAY OR ROLLER			06 FIREPROOFING				
	STEEL WALL SIDINGS×	SPRAY OR ROLLER			VOT INCL ROOF ING			30MILS (0.80mm) /	
						STEEL COLUMNS, MAIN	SPRAY, BRUSH, OR ROLLER	COAT	
03 CONCRETE / MASONRY						STEEL BEAMS, MAIN	SPRAY, BRUSH, OR ROLLER	30MILS (0.80mm) /	
SELF-PRIMING MODIFIED WATERBASED ACRYLIC					SINGLE PACK, SOLVENT BASED INTUMESCENT COATING	STEEL BEAMS, MAIN	SFRAT, DROSH, OR ROLLER	COAT	
SILOXANE, TWO-COAT SYSTEM	CONCRETE AND CONCRETE MASONRY	BRUSH OR ROLLER	1-3 MILS		- Sinder Facts, Socretin Bases in to reserving	STEEL RAFTER, MAIN	SPRAY, BRUSH, OR ROLLER	30MILS (0.80mm) / COAT	
1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT)	UNITS EXPOSED TO VIEWS	DINOSIT ON NOLLEN	(25–76MICRONS)		_	STEEL DECKING	SPRAY, BRUSH, OR ROLLER	30MILS (0.80mm) /	
2. SEALER AND PIGMENTED ACRYLIC							<u> </u>	COAT	
(TRANSLUCENT OR OPAQUE FINISH)									
					07 CONCRETE FLOORING				1
ITERIOR SYSTEM					WATERBASED SELF LEVELLING EPOXY,2 COMPONENT				
01 METAL, FERROUS					COTH SNENT	CONCRETE FLOORING INDICATED IN THE			
1. TOUCH UP WITH ALKYD TYPE PRIMER	HANDRAILS	BRUSH OR ROLLER	1-1.5 MILS / COAT (PRIMER COATING)		1. EPOXY PRIMER	PLANS AND SCHEDULE EQUIPMENTS ROOMS CONCRETE FLOOR	ROLLER	3-5MM	
I. TOSCITOT WITH ALKIE THE TRUILER			1-1.5 MILS / COAT		2. SELF-LEVELLING COMPOUND	EGOIFTIENTS ROOMS CONCRETE FEOOR			
	RAILINGS	BRUSH OR ROLLER	(SECONDARY / TOP		3. BASE COLOR/ MARKINGS				
			COATING)		4. CLEAR / TOP COATING				
	STEEL STAIRS	BRUSH OR ROLLER							
2. GLOSS; TWO COATS OF ALKYD ENAMEL	STEEL WALL SIDINGS	BRUSH OR ROLLER			08 CONCRETE / MASONRY, ACID PRONE AREA				
	STEEL GIRTS	BRUSH OR ROLLER			SELF-PRIMING MODIFIED WATERBASED ACRYLIC				
	STEEL MESH	BRUSH OR ROLLER	†		SILOXANE, TWO-COAT SYSTEM	CONCRETE AND CONCRETE MACCOUNTY		4 2 1411 6	
	GUARD POST	BRUSH OR ROLLER	1		1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT)	CONCRETE AND CONCRETE MASONRY UNITS EXPOSED TO HIGH ACIDITY	BRUSH OR ROLLER	1–3 MILS (25–76MICRONS)	
	2521001	D. O. T. S. NOLLEN	+		2. SEALER AND PIGMENTED ACRYLIC	SIGNS EXTUGED TO HIGH ACIDIT		(23-101:11CHO143)	
02 METAL, NON-FERROUS					(TRANSLUCENT OR OPAQUE FINISH)				
VZ ITIL I ML, NON-I ERRUUS			1				1		•
LOW VOC, ALKYD RESIN TYPE, 3 COAT SYSTEM									
	B.I PIPES	BRUSH OR ROLLER	2-3 MILS (51-76 MICRONS) PRIMER						
1. ONE COAT OF ALKYD TYPE PRIMER			COATING		4				
			2-3 MILS (51-76						
2. SEMI-GLOSS; TWO COATS OF ALKYD ENAMEL			MICRONS) SECOND & TOP COATING						
			+ +						
03 CONCRETE / MASONRY		ı	1		1				
OPAQUE, LATEX, 3 COATS					┪				
o, Adoc, ERIEN, 5 CORTS	CONCRETE AND CONCRETE MACONINY		1 1 F MIL C / COAT		╡				

SCHEDULE OF PAINTS

DESIGN CONSULTANT

Joige Müller Project Director

AS PER MANUFACTURER'S STANDARD MATERIAL SPECIFICATIONS AND APPLICATION.

This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

4	DESCRIPTION	DATE	VER
Ę	FINAL REVISION OF JICA DESIGN TEAM	25 OCT 2017	02

I. ONE COAT OF BLOCK FILLER

2. SEMIGLOSS EGGSHELL; TWO COATS OF LATEX ENAMEL

CONCRETE AND CONCRETE MASONRY

UNITS EXPOSED TO VIEW

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PHILIPPINE NATIONAL RAILWAYS

OCGLOBAL	ORIENTAL CONSULTANTS GLOBAL CO., LTD.	3
KEI	KATAHIRA & ENGINEERS INTERNATIONAL	(j
æ	PACIFIC CONSULTANTS CO., LTD.	È

JICA DETAILED DESIGN STUDY TEAM

1-1.5 MILS / COAT

(PRIMER COATING) 1-1.5 MILS / COAT

(SECONDARY / TOP COATING)

ROLLER OR BRUSH

JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD. TONICHI ENGINEERING CONSULTANTS INC.

TITLE	JDT	SMEC	
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RAILWAY PROJECT (MALOLOS-TUTUBAN)	
DETAILED DESIGN	
VALENZUELA DEPOT-WORKSHOP ARCHITECTURAL - SCHEDULE OF INTERIOR]

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER

AND EXTERIOR PAINTING WORKS

OCTOBER 2017

AS SHOWN @ A1

NSCR-DWG-WS-AR-3391

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