

HW SET:		01	
LOCATION OF OPENING:		MOTORIZED SHUTTER DOOR SH1	NO. OF DOORS: 1
ROOM NO.	106	ENTRANCE LOBBY / UNPAID AREA PROPER	
HANDING:		NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		9000	x 5930
		SST	DR x SST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
1	SET	DOOR CURTAIN & ASSEMBLY	STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION; WITH WICKET DOOR
1	SET	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		02	
LOCATION OF OPENING:		MOTORIZED SHUTTER DOOR SH2	NO. OF DOORS: 1
ROOM NO.	106	ENTRANCE LOBBY / UNPAID AREA PROPER	
HANDING:		NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		1900	x 5930
		SST	DR x SST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
1	SET	DOOR CURTAIN & ASSEMBLY	STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION
1	SET	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		03	
LOCATION OF OPENING:		MOTORIZED SHUTTER DOOR SH3	NO. OF DOORS: 1
ROOM NO.	109	STATION PLAZA (COMMUTERS)	
HANDING:		NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		5665	x 5930
		SST	DR x SST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
1	SET	DOOR CURTAIN & ASSEMBLY	STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION
1	SET	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		04	
LOCATION OF OPENING:		MOTORIZED SHUTTER DOOR SH4	NO. OF DOORS: 3
ROOM NO.	109	STATION PLAZA (COMMUTERS)	
HANDING:		NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		9400	x 5930
		SST	DR x SST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
3	SETS	DOOR CURTAIN & ASSEMBLY	STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION; WITH WICKET DOOR OPTION
3	SETS	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:


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
C	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
 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.

Reviewed by NSTren

 Jorge Müller
 Project Director

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

Last modified by TALENTO-C4 / 04 Jul 2018
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VER	DATE	DESCRIPTION
03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM



DESIGN CONSULTANT

JICA DETAILED DESIGN STUDY TEAM

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

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

DETAILED DESIGN

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 1

DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-TTB-AR-3371
DRG S.	REV 03

HW SET:		05	
LOCATION OF OPENING:		MOTORIZED SHUTTER DOOR SH5	NO. OF DOORS: 1
ROOM NO.	206	CENTRAL AISLE	
HANDING:		NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		6870	x 5800
		SST	DR x SST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
1	SET	DOOR CURTAIN & ASSEMBLY	STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION; WITH WICKET DOOR OPTION
1	SET	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		06	
LOCATION OF OPENING:		MOTORIZED SHUTTER DOOR SH6	NO. OF DOORS: 2
ROOM NO.	206	CENTRAL AISLE	
HANDING:		NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		9400	x 5800
		SST	DR x SST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
2	SETS	DOOR CURTAIN & ASSEMBLY	STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION
2	SETS	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		07	
LOCATION OF OPENING:		MOTORIZED SHUTTER DOOR SH7	NO. OF DOORS: 1
ROOM NO.	201	ENTRANCE LOBBY/UNPAID AREA PROPER	
HANDING:		NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		5665	x 4000
		SST	DR x SST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
1	SET	DOOR CURTAIN & ASSEMBLY	STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION
1	SET	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:

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
C	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
 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.

HW SET:		08	
LOCATION OF OPENING:		DOUBLE DOOR D2	NO. OF DOORS: 2
ROOM NO.	114	SER	
	115	SUR	
HANDING:		RIGHT HAND (RH) ACTIVE (PAIR SWINGING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		3050	x 3000
		1000	x 2000
		ST	DR x ST FR
QTY.	UNIT	ITEM TYPE	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
6	PCS	DOOR HINGE (WICKET DOOR)	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
4	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95
			INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION
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
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
			xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

 Jorge Müller
 Project Director

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

Last modified by TALENTO-C4 / 04 Jul 2018
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VER	DATE	DESCRIPTION
03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM



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

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)	
DETAILED DESIGN	
TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 2	

DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-TTB-AR-3372
DRG S.	REV 03

HW SET:		09	
LOCATION OF OPENING:		DOUBLE DOOR D2	NO. OF DOORS: 1
ROOM NO.	114	SER	
HANDING:		LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)	
DIMENSIONS & DOOR/FRAME TYPE:		3050	x 3000
		x	44mm
		1000	x 2000
		x	44mm (WICKET DOOR)
		ST	DR x ST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
8	PCS	DOOR HINGE (MAIN DOOR)	6" X 6" HEAVY DUTY LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
3	PCS	DOOR HINGE (WICKET DOOR)	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: F95
			INTERCONNECTED SINGLE LOCKING ENTRY, GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION
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
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
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		10	
LOCATION OF OPENING:		DOUBLE DOOR D4 (LOUVER)	NO. OF DOORS: 2
ROOM NO.	234	RAILWAY ELECTRICAL RM	
	233	STATION ELECTRICAL RM	
HANDING:		LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)	
DIMENSIONS & DOOR/FRAME TYPE:		1850	x 2100
		x	44mm
		ST	DR x ST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
16	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95
			INTERCONNECTED SINGLE LOCKING ENTRY (AT ACTIVE DOOR LEAF); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: -
			DUMMY LOCKSET (AT OPPOSITE DOOR); 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
2	SETS	MISCELLANEOUS ITEMS	FOOTBOLT/ FLUSHBOLT, STAINLESS STEEL THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		11	
LOCATION OF OPENING:		DOUBLE DOOR D4 (LOUVER)	NO. OF DOORS: 3
ROOM NO.	116	COMM UPS RM	
	120	DOMESTIC WATER TANK ROOM	
	121	FIRE WATER TANK & PUMP ROOM	
HANDING:		RIGHT HAND (RH) ACTIVE (PAIR SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		1850	x 2100
		x	44mm
		ST	DR x ST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
24	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95
			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: -
			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
3	SETS	MISCELLANEOUS ITEMS	FOOTBOLT/ FLUSHBOLT, STAINLESS STEEL THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		12	
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 1
ROOM NO.	209	FIRST AID ROOM	
HANDING:		RIGHT HAND (RH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		1050	x 2100
		x	44mm
		ST	DR x ST FR
QTY.	UNIT	ITEM TYPE	FINISH 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 FUNCTION CODE: F76B
			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
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:

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
C	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

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:

LOCATION OF OPENING:

Reviewed by NSTren

Jorge Müller

Jorge Müller
Project Director

HW SET:		11	
LOCATION OF OPENING:		DOUBLE DOOR D4 (LOUVER)	NO. OF DOORS: 3
ROOM NO.	116	COMM UPS RM	
	120	DOMESTIC WATER TANK ROOM	
	121	FIRE WATER TANK & PUMP ROOM	
HANDING:		RIGHT HAND (RH) ACTIVE (PAIR SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		1850	x 2100
		x	44mm
		ST	DR x ST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
24	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95
			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: -
			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
3	SETS	MISCELLANEOUS ITEMS	FOOTBOLT/ FLUSHBOLT, STAINLESS STEEL THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

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



DESIGN CONSULTANT

JICA DETAILED DESIGN STUDY TEAM

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

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

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

DATE: OCTOBER 2017

SCALE: N/A

SHEET No.

DRG No. NSCR-DWG-TTB-AR-3373

DRG S. REV 03

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 3

HW SET:		13		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 2	
ROOM NO.	129	CUSTOMER SERVICE		
	224	TRAINING & MAINTENANCE ROOM		
HANDING:	RIGHT HAND (RH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:		1050	x 2100 x 44mm	
	ST DR	x	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	A
2	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A	630
			ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
2	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
2	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		14		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 2	
ROOM NO.	129	CUSTOMER SERVICE		
	207	CUSTOMER SERVICE RM.		
HANDING:	LEFT HAND (LH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:		1050	x 2100 x 44mm	
	ST DR	x	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	A
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION 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	A
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

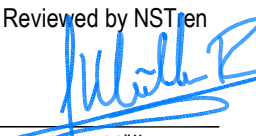
HW SET:		15		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 2	
ROOM NO.	227	SECURITY RM		
	228	OCS RM		
HANDING:	RIGHT HAND (RH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:		1050	x 2100 x 44mm	
	ST DR	x	ST FR	
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION 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	A
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, ACCESS CARD/ SECURITY (AS APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:	
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
C	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
 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.

Reviewed by NSTren

 Jorge Müller
 Project Director

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

HW SET:		16		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 1	
ROOM NO.	229	STATION MASTER ROOM		
HANDING:	LEFT HAND (LH) (SWING IN)			
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	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: 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
				xOR PER MANUFACTURER'S SPECIFICATIONS

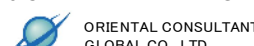

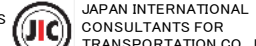
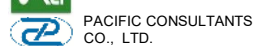
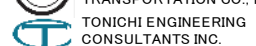
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VER	DATE	DESCRIPTION
03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM



DESIGN CONSULTANT

JICA DETAILED DESIGN STUDY TEAM

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

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

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

DETAILED DESIGN

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 4

DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-TTB-AR-3374
DRG S.	REV 03

HW SET:		17		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 1	
		ROOM NO. 226	STAFF ROOM	
		HANDING: RIGHT HAND (RH) (SWING IN)		
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	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: 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
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		18		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 1	
		ROOM NO. 225	CLEANER'S ROOM	
		HANDING: RIGHT HAND (RH) (SWING IN)		
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	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: 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, ASTRAGAL, PEST PROOFING, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

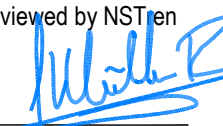
HW SET:		19		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 1	
		ROOM NO. 134	MALE BEDROOM(DRIVER'S WAITING)	
		HANDING: LEFT HAND (LH) (SWING IN)		
DIMENSIONS & DOOR/FRAME TYPE:		1050 x 2100	x 44mm	
		ST DR x ST FR		
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	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: F90	630
			CORRIDOR/ DORMITORY 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	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:	
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
C	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
 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.

Reviewed by NSTren

 Jorge Müller
 Project Director

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

HW SET:		20		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 7	
		ROOM NO. 134	MALE BEDROOM (DRIVER'S WAITING)	
		136	FEMALE BEDROOM (DRIVER'S WAITING)	
		HANDING: RIGHT HAND (RH) (SWING IN)		
DIMENSIONS & DOOR/FRAME TYPE:		1050 x 2100	x 44mm	
		ST DR x ST FR		
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
28	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
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	
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
7	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

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



DESIGN CONSULTANT

JICA DETAILED DESIGN STUDY TEAM

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

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

DETAILED DESIGN

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 5

DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-TTB-AR-3375
DRG S.	REV 03

HW SET:		21	
LOCATION OF OPENING:		SINGLE DOOR D6	NO. OF DOORS: 2
		ROOM NO. 221	GAD RM
		222	BFR RM
DIMENSIONS & DOOR/FRAME TYPE:		HANDING: LEFT HAND (LH) (SWING IN)	
		950 x 2100	x 44mm
		ST DR	x 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	A
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F76B	630
			PRIVACY 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	A
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		22	
LOCATION OF OPENING:		SINGLE DOOR D6	NO. OF DOORS: 3
		ROOM NO. 131	MALE TOILET
		132	FEMALE TOILET
		226-A	STAFF TOILET 1(MALE)
DIMENSIONS & DOOR/FRAME TYPE:		HANDING: RIGHT HAND (RH) (SWING IN)	
		950 x 2100	x 44mm
		ST DR	x 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	A
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F76B	630
			PRIVACY LOCK; 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	A
3	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		23	
LOCATION OF OPENING:		SINGLE DOOR D6	NO. OF DOORS: 1
		ROOM NO. 226-A	STAFF TOILET 2 (FEMALE)
DIMENSIONS & DOOR/FRAME TYPE:		HANDING: LEFT HAND (RH) (SWING IN)	
		950 x 2100	x 44mm
		ST DR	x ST FR

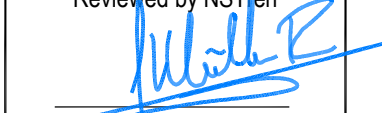
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F76B	630
			PRIVACY LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; 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	A
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:	
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
C	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
 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.

Reviewed by NSTren

 Jorge Müller
 Project Director

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

HW SET:		24	
LOCATION OF OPENING:		SINGLE DOOR D7	NO. OF DOORS: 1
		ROOM NO. 135	MALE LOCKER & SHOWER (DRIVER'S WAITING)
DIMENSIONS & DOOR/FRAME TYPE:		HANDING: LEFT HAND (LH) (SWING IN)	
		750 x 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	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	A
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

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



DESIGN CONSULTANT

JICA DETAILED DESIGN STUDY TEAM

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

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

DETAILED DESIGN

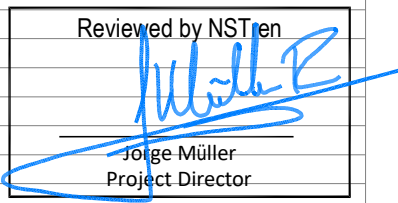
TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 6

DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-TTB-AR-3376
DRG S.	REV 03

HW SET:	25				
LOCATION OF OPENING:	SINGLE DOOR D7		NO. OF DOORS: 1		
	ROOM NO.	137	FEMALE LOCKER & SHOWER (DRIVER'S WAITING)		
	HANDING:	RIGHT HAND (RH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:	750	x	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	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	A
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:	26				
LOCATION OF OPENING:	SINGLE DOOR D7		NO. OF DOORS: 3		
	ROOM NO.	128	STORAGE ROOM		
		219-A	SLOP SINK		
		220-A	SLOP SINK		
	HANDING:	RIGHT HAND (RH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:	750	x	2100	x	44mm
	ST	DR	x	ST	FR

Reviewed by NSTren

 Jorge Müller
 Project Director

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
9	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: F86	630
			STOREROOM / CLOSET / VESTIBULE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
3	SETS	DOOR STOP	MAGNETIC DOORSTOP WITH CATCH SCREW MOUNT	630
3	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:	28				
LOCATION OF OPENING:	SINGLE DOOR D9 (EMERGENCY EXIT)		NO. OF DOORS: 1		
	ROOM NO.	110	EMERGENCY EXIT 2		
	HANDING:	LEFT 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	A
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	A
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	A
1	SET	MISCELLANEOUS ITEMS	BLANK PLATE (AT EXTERIOR), EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:

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
C	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
 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.

HW SET:	27				
LOCATION OF OPENING:	SLIDING DOOR D8		NO. OF DOORS: 2		
	ROOM NO.	218	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	TOP HUNG SLIDING DOOR TRACK SYSTEM; ROUND RAIL TRACK, SIDEWALL MOUNTED; METAL ROUND RAIL DOOR HANGERS (1 PAIR PER SET), BALL BEARING; PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
2	SETS	DOOR GUIDE	METAL BOTTOM / FLOOR MOUNTED GUIDE; PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
2	SETS	SUPPORT BRACKETS & ASSEMBLY	RAIL BRACKET AT 500 MM - 600 MM ON CENTER SPACING, OR PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
2	SETS	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
4	SETS	VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE) HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE	630
2	SETS	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
2	SETS	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	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

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

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



DESIGN CONSULTANT

JICA DETAILED DESIGN STUDY TEAM

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

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

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

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 7

DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-TTB-AR-3377
DRG S.	REV 03

Last modified by TALENTO-C4 / 04 Jul 2018
 Filename: \\10.1.30.102\shares\Users\CAD_Shared\20180323_Submitted To Client\dr_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01\B04 OF 11\1_DWG\NSCR-DWG-TTB-AR-3377-R1

HW SET:					
LOCATION OF OPENING:					
SINGLE DOOR D9 (EMERGENCY EXIT)		NO. OF DOORS: 3			
ROOM NO.	110	EMERGENCY EXIT 1			
	115	SUR			
	118	EMERGENCY EXIT STAIRS 3			
HANDING:		RIGHT HAND REVERSE (RHR) (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
12	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	A
3	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	A
3	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
3	SETS	MISCELLANEOUS ITEMS	BLANK PLATE (AT EXTERIOR), EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:					
LOCATION OF OPENING:					
SINGLE DOOR D9 (EMERGENCY EXIT)		NO. OF DOORS: 3			
ROOM NO.	118	EMERGENCY EXIT STAIRS 3			
	235	E.EXIT STAIR 3(CONCOURSE)			
	310	E.EXIT STAIR 1(PLATFORM)			
HANDING:		LEFT HAND (LH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:					
1050	x	2100	x	44mm	
ST	DR	x	ST	FR	

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
12	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	A
3	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
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	A
3	SETS	MISCELLANEOUS ITEMS	EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:					
LOCATION OF OPENING:					
SINGLE DOOR D9 (EMERGENCY EXIT)		NO. OF DOORS: 2			
ROOM NO.	217	E.EXIT STAIR 2			
	310	E.EXIT STAIR 3 (PLATFORM)			
HANDING:		RIGHT HAND (LH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:					
1050	x	2100	x	44mm	
ST	DR	x	ST	FR	

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	A
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
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	A
2	SETS	MISCELLANEOUS ITEMS	EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A xOR PER MANUFACTURER'S SPECIFICATIONS

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

DESIGN CONSULTANT

JICA DETAILED DESIGN STUDY TEAM

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

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

DETAILED DESIGN

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 8

DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-TTB-AR-3378
DRG S.	REV
	03

LEGEND:

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
C	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

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.

HW SET:					
LOCATION OF OPENING:					
DOUBLE DOOR D10		NO. OF DOORS: 2			
ROOM NO.	231	AFC ROOM			
	232	AFC UPS RM.			
HANDING:		LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)			
DIMENSIONS & 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 FUNCTION CODE: F95	630
4	SETS	DOOR CLOSER ASSEMBLY	INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	A
2	SETS	MISCELLANEOUS ITEMS	SURFACE MOUNTED, REGULAR ARM (PULL SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION	A
			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 xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

Jorge Müller
Project Director

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

HW SET:	33
LOCATION OF OPENING:	DOUBLE DOOR D10 NO. OF DOORS: 4
	ROOM NO. 113 BACK OF HOUSE HALLWAY
	117 COMM RM.
	223 BACK OF HOUSE HALLWAY
	230 BMS ROOM
	HANDING: RIGHT HAND (RH) ACTIVE (PAIR SWING IN)
DIMENSIONS & DOOR/FRAME TYPE:	2050 x 2100 x 44mm
	ST DR x ST FR

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
32	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN HEAVY DUTY BUTT HINGE, STEEL, BALL BEARING, GRADE 1, PER MANUFACTURER'S RECOMMENDATION	A
8	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	
8	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
4	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	A xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:	34
LOCATION OF OPENING:	DOUBLE DOOR D10 NO. OF DOORS: 1
	ROOM NO. 133 COMMON ROOM (DRIVER'S WAITING)
	HANDING: RIGHT HAND (RH) ACTIVE (PAIR SWING IN)
DIMENSIONS & DOOR/FRAME TYPE:	2050 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
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F90	630
			CORRIDOR/ DORMITORY 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	A
1	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	A xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:	35
LOCATION OF OPENING:	SINGLE DOOR D11 NO. OF DOORS: 1
	ROOM NO. 210 DIST.BRD.RM
	HANDING: LEFT HAND (LH) (SWING IN)
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	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 xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:

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
C	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

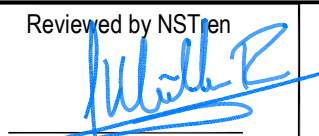
REBATED DOORS - DOORS HAVE A "LIP" ALONG THE VERTICAL EDGE WHERE THE TWO DOORS MEET

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.

Reviewed by NSTren



Jorge Müller
Project Director

HW SET:	36
LOCATION OF OPENING:	SINGLE DOOR D12 (LOUVER) NO. OF DOORS: 2
	ROOM NO. 305 EPS RM 1 & 2
	HANDING: RIGHT HAND (RH) (SWING 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	A
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
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A xOR PER MANUFACTURER'S SPECIFICATIONS

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

Last modified by TALENTO-C4 / 04 Jul 2018
Filename: \\110.130.102\shares\Users\CAD_Shared\20180427_Submitted To Client\vd_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01\B04 OF 11\1_DWG\NSCR-DWG-TTB-AR-3379-R1

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



DESIGN CONSULTANT

JICA DETAILED DESIGN STUDY TEAM

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

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

DESIGNER: H. KISHI
CHECK: A. AIKAWA
TEAM LEADER: N. MATSUMOTO
PROJ. MANAGER: M. MIYATA

JDT
SMEC
N. HAMILTON
J. BARNES
R. YUZON, JR.

THE DETAILED DESIGN

TUTUBAN STATION ARCHITECTURAL SCHEDULE OF HARDWARE SHEET 9

DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-TTB-AR-3379
DRG S.	REV 03

HW SET:		01	
LOCATION OF OPENING:		MOTORIZED SHUTTER DOOR SH1	NO. OF DOORS: 4
		ROOM NO. 104	SOUTH & NORTH ENTRANCE/ EXIT 1 & 2
		HANDING: NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		4600 x 4000	19 mm DIAMETER SST PIPE
		SST DR x SST FR	

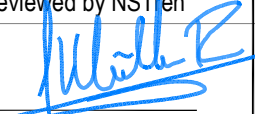
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	SETS	DOOR CURTAIN & ASSEMBLY	STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION	630
4	SETS	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		02	
LOCATION OF OPENING:		MOTORIZED SHUTTER DOOR SH2	NO. OF DOORS: 2
		ROOM NO. 104	SOUTH & NORTH ENTRANCE/ EXIT 1 & 2
		HANDING: NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		10900 x 4000	19 mm DIAMETER SST PIPE
		SST DR x SST FR	

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
2	SETS	DOOR CURTAIN & ASSEMBLY	STAINLESS STEEL GRILL SHUTTER; HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION; WITH WICKET DOOR	630
2	SETS	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		03	
LOCATION OF OPENING:		SINGLE DOOR D1 (EMERGENCY EXIT)	NO. OF DOORS: 2
		ROOM NO.	EMERGENCY EXIT 1 & 4 (AT PLATFORM LEVEL / MAINTENANCE CAGE)
		HANDING: LEFT HAND (LH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		950 x 2100	44mm
		ST DR x ST FR	

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	A
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
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	A
2	SETS	MISCELLANEOUS ITEMS	ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

 Jorge 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 FINISH CODE:

630	STAINLESS STEEL METAL, SATIN
A	STEEL BASE METAL
C	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

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.

HW SET:		04	
LOCATION OF OPENING:		SINGLE DOOR D1 (EMERGENCY EXIT)	NO. OF DOORS: 2
		ROOM NO.	EMERGENCY EXIT 2 & 3 (AT PLATFORM LEVEL / MAINTENANCE CAGE)
		HANDING: RIGHT HAND (RH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		950 x 2100	44mm
		ST DR x ST FR	

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	A
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
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	A
2	SETS	MISCELLANEOUS ITEMS	ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

Last modified by MARINDO-C8 / 02 Jul 2018
 Filename: X:\Users\CAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01\B05 OF 11\1 DWG\NSCR-DWG-CAL-AR-3371-R1

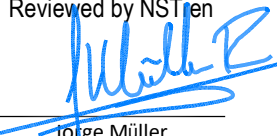
VER	DATE	DESCRIPTION		<p>DESIGN CONSULTANT</p> <p>JICA DETAILED DESIGN STUDY TEAM</p> 	<table border="1"> <thead> <tr> <th>TITLE</th> <th>JDT</th> <th>SMEC</th> </tr> </thead> <tbody> <tr> <td>DESIGNER</td> <td>H. KISHI</td> <td>A. ALLI</td> </tr> <tr> <td>CHECK</td> <td>A. AIKAWA</td> <td>N. HAMILTON</td> </tr> <tr> <td>TEAM LEADER</td> <td>N. MATSUMOTO</td> <td>J. BARNES</td> </tr> <tr> <td>PROJ. MANAGER</td> <td>M. MIYATA</td> <td>R. YUZON, JR.</td> </tr> </tbody> </table>	TITLE	JDT	SMEC	DESIGNER	H. KISHI	A. ALLI	CHECK	A. AIKAWA	N. HAMILTON	TEAM LEADER	N. MATSUMOTO	J. BARNES	PROJ. MANAGER	M. MIYATA	R. YUZON, JR.	DATE	OCTOBER 2017
TITLE	JDT	SMEC																				
DESIGNER	H. KISHI	A. ALLI																				
CHECK	A. AIKAWA	N. HAMILTON																				
TEAM LEADER	N. MATSUMOTO	J. BARNES																				
PROJ. MANAGER	M. MIYATA	R. YUZON, JR.																				
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM			THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)	SCALE	N/A															
					DETAILED DESIGN	SHEET No.																
					<p>CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 1</p>	DRG No.	NSCR-DWG-CAL-AR-3371															
						DRG S.	REV 02															

HW SET:		05				
LOCATION OF OPENING:		DOUBLE DOOR D2		NO. OF DOORS: 2		
	ROOM NO.	140	SUR			
		141	SER			
HANDING:		LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)				
DIMENSIONS & DOOR/FRAME TYPE:		3050	x	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	A
6	PCS	DOOR HINGE (WICKET DOOR)	5" X 4 1/2" LOOSE-PIN 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, 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	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
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		06				
LOCATION OF OPENING:		SINGLE DOOR D3		NO. OF DOORS: 1		
	ROOM NO.	141	SER			
HANDING:		LEFT HAND REVERSE (LHR) (SWING OUT)				
DIMENSIONS & DOOR/FRAME TYPE:		1525	x	2100	x	44mm
	ST	DR	x	ST	FR	

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	6" X 6" HEAVY DUTY 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, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; 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
				xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

 Jorge 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 FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
A	STEEL BASE METAL
C	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
 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.

HW SET:		07				
LOCATION OF OPENING:		DOUBLE DOOR D4 (LOUVER)		NO. OF DOORS: 5		
	ROOM NO.	138	RAILWAY ELECTRICAL RM			
		142	DOMESTIC WATER & TANK PUMP ROOM			
		147	FIRE WATER & TANK PUMP ROOM			
HANDING:		LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)				
DIMENSIONS & DOOR/FRAME TYPE:		1850	x	2100	x	44mm
	ST	DR	x	ST	FR	

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
40	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
5	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	
5	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	
10	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
5	SETS	MISCELLANEOUS ITEMS	FOOTBOLT/ FLUSHBOLT, STAINLESS STEEL THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

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

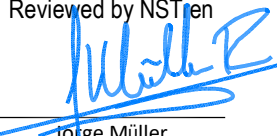


DESIGN CONSULTANT		
JICA DETAILED DESIGN STUDY TEAM		
ORIENTAL GLOBAL CONSULTANTS GLOBAL CO., LTD.	KATAHIRA & ENGINEERS INTERNATIONAL	JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.
PACIFIC CONSULTANTS CO., LTD.	TONICHI ENGINEERING CONSULTANTS INC.	
TITLE	JDT	SMEC
DESIGNER	H. KISHI	A. ALLI
CHECK	A. AIKAWA	N. HAMILTON
TEAM LEADER	N. MATSUMOTO	J. BARNES
PROJ. MANAGER	M. MIYATA	R. YUZON, JR.

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)	
DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-CAL-AR-3372
DRG S.	REV 03
CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 2	

HW SET:		08	
LOCATION OF OPENING:		DOUBLE DOOR D4 (LOUVER)	NO. OF DOORS: 3
ROOM NO.	123	AFC ROOM 1 & 2	
	135	COMM UPS RM	
HANDING:		RIGHT HAND (RH) ACTIVE (PAIR SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		1850	x 2100 x 44mm
	ST	DR	x ST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
24	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95
			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: —
			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
3	SETS	MISCELLANEOUS ITEMS	FOOTBOLT/ FLUSHBOLT, STAINLESS STEEL THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		09	
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 2
ROOM NO.	113	FIRST AID ROOM 1	
	121	GAD ROOM 1	
HANDING:		RIGHT HAND (RH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		1050	x 2100 x 44mm
	ST	DR	x ST FR
QTY.	UNIT	ITEM TYPE	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
			PRIVACY 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
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

 Jorge Müller
 Project Director

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


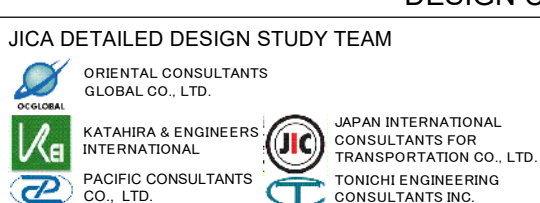
LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME MATERIAL:	
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
HARDWARE FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
A	STEEL BASE METAL
C	STAINLESS STEEL BASE METAL

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	
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.

HW SET:		10	
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 2
ROOM NO.	113	FIRST AID ROOM 2	
	121	GAD ROOM 2	
HANDING:		LEFT HAND (LH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		1050	x 2100 x 44mm
	ST	DR	x ST FR
QTY.	UNIT	ITEM TYPE	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
			PRIVACY 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
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

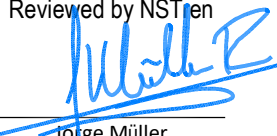
Last modified by MARINDO-C8 / 04 Jul 2018
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VER	DATE	DESCRIPTION		DESIGN CONSULTANT JICA DETAILED DESIGN STUDY TEAM 	TITLE: JDT, SMEC DESIGNER: H. KISHI, A. ALLI CHECK: A. AIKAWA, N. HAMILTON TEAM LEADER: N. MATSUMOTO, J. BARNES PROJ. MANAGER: M. MIYATA, R. YUZON, JR.	DATE	OCTOBER 2017
03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM				SCALE	N/A
						SHEET No.	
						DRG No.	NSCR-DWG-CAL-AR-3373
			DRG S.	REV	03		

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)
 DETAILED DESIGN
CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 3

HW SET:		11		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 2	
		ROOM NO. 112	CUSTOMER SERVICE RM 1 & 2	
DIMENSIONS & DOOR/FRAME TYPE:		HANDING: RIGHT HAND (RH) (SWING IN)		
		1050 x 2100	x 44mm	
		ST DR	x 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	A
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	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	A
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		12		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 3	
		ROOM NO. 124	SECURITY RM	
		145	STATION MANAGER RM	
		146	OCS RM	
DIMENSIONS & DOOR/FRAME TYPE:		HANDING: RIGHT HAND (RH) (SWING IN)		
		1050 x 2100	x 44mm	
		ST DR	x 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	A
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A ENTRY/OFFICE LOCK GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	630
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	A
3	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, ACCESS CARD/ SECURITY (AS APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

Jorge Müller
Project Director


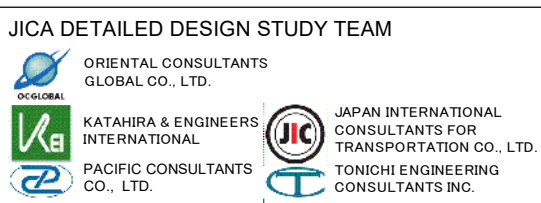
This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME MATERIAL:	
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
HARDWARE FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
A	STEEL BASE METAL
C	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	
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.	

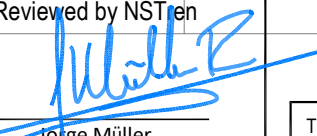
ANSI/BHMA FUNCTION CODES FOR CYLINDRICAL AND MORTISE LOCKSETS		
CYLINDRICAL LOCK ANSI#	FUNCTION LABEL	DESCRIPTION OF FUNCTION (SOURCE: HTTP://WWW.HAGERCO.COM)
F82A	ENTRY, OFFICE	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED BY PUSH BUTTON ON INSIDE. WHEN 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.

HW SET:		13		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 1	
		ROOM NO. 133	STAFF ROOM	
DIMENSIONS & DOOR/FRAME TYPE:		HANDING: RIGHT HAND (RH) (SWING IN)		
		1050 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" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	630
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, PEST PROOFING, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

VER	DATE	DESCRIPTION		DESIGN CONSULTANT JICA DETAILED DESIGN STUDY TEAM 			THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)		DATE	OCTOBER 2017
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM					DETAILED DESIGN		SCALE	N/A
						CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 4		SHEET No.		
								DRG No.	NSCR-DWG-CAL-AR-3374	
								DRG S.	REV	
									02	

HW SET:		17		
LOCATION OF OPENING:		SLIDING DOOR D8	NO. OF DOORS: 2	
		ROOM NO. 118	PWD TOILETS 2 & 3	
		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	TOP HUNG SLIDING DOOR TRACK SYSTEM; ROUND RAIL TRACK, SIDEWALL MOUNTED; METAL ROUND RAIL DOOR HANGERS (1 PAIR PER SET), BALL BEARING; PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
2	SETS	DOOR GUIDE	METAL BOTTOM / FLOOR MOUNTED GUIDE; PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
2	SETS	SUPPORT BRACKETS & ASSEMBLY	RAIL BRACKET AT 500 MM - 600 MM ON CENTER SPACING, OR PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
2	SETS	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
4	SETS	VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)	630
			HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE	
2	SETS	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
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
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		18		
LOCATION OF OPENING:		SLIDING DOOR D8	NO. OF DOORS: 2	
		ROOM NO. 118	PWD TOILETS 1 & 4	
		HANDING: LEFT 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	TOP HUNG SLIDING DOOR TRACK SYSTEM; ROUND RAIL TRACK, SIDEWALL MOUNTED; METAL ROUND RAIL DOOR HANGERS (1 PAIR PER SET), BALL BEARING; PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
2	SETS	DOOR GUIDE	METAL BOTTOM / FLOOR MOUNTED GUIDE; PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
2	SETS	SUPPORT BRACKETS & ASSEMBLY	RAIL BRACKET AT 500 MM - 600 MM ON CENTER SPACING, OR PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
2	SETS	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	A
4	SETS	VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)	630
			HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE	
2	SETS	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
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
				xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

 Jorge 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 FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
A	STEEL BASE METAL
C	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


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.

HW SET:		19		
LOCATION OF OPENING:		SINGLE DOOR D9 (EMERGENCY EXIT)	NO. OF DOORS: 6	
		ROOM NO. 103	EMERGENCY EXITS 1 & 4	
		117	RAMP 2 & 3 (EMERGENCY EXIT)	
			PLATFORM AREA (TO EMERGENCY STAIRS 2 & 3)	
		HANDING: LEFT 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
24	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	A
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	A
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	A
6	SETS	MISCELLANEOUS ITEMS	EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

Last modified by MARINDO-C8 / 02 Jul 2018
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<table border="1"> <tr> <th>VER</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>02</td> <td>25 OCT 2017</td> <td>FINAL REVISION OF JICA DESIGN TEAM</td> </tr> </table>	VER	DATE	DESCRIPTION	02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM		<p align="center">DESIGN CONSULTANT</p> <p align="center">JICA DETAILED DESIGN STUDY TEAM</p> <table border="1"> <tr> <td>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</td> <td>KATAHIRA & ENGINEERS INTERNATIONAL</td> <td>JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.</td> </tr> <tr> <td>PACIFIC CONSULTANTS CO., LTD.</td> <td>TONICHI ENGINEERING CONSULTANTS INC.</td> <td></td> </tr> </table>	ORIENTAL CONSULTANTS GLOBAL CO., LTD.	KATAHIRA & ENGINEERS INTERNATIONAL	JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.	PACIFIC CONSULTANTS CO., LTD.	TONICHI ENGINEERING CONSULTANTS INC.		<table border="1"> <tr> <th>TITLE</th> <th>JDT</th> <th>SMEC</th> </tr> <tr> <td>DESIGNER</td> <td>H. KISHI</td> <td>A. ALLI</td> </tr> <tr> <td>CHECK</td> <td>A. AIKAWA</td> <td>N. HAMILTON</td> </tr> <tr> <td>TEAM LEADER</td> <td>N. MATSUMOTO</td> <td>J. BARNES</td> </tr> <tr> <td>PROJ. MANAGER</td> <td>M. MIYATA</td> <td>R. YUZON, JR.</td> </tr> </table>	TITLE	JDT	SMEC	DESIGNER	H. KISHI	A. ALLI	CHECK	A. AIKAWA	N. HAMILTON	TEAM LEADER	N. MATSUMOTO	J. BARNES	PROJ. MANAGER	M. MIYATA	R. YUZON, JR.	<p align="center">THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)</p> <p align="center">DETAILED DESIGN</p> <p align="center">CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 6</p>	<table border="1"> <tr> <td>DATE</td> <td>OCTOBER 2017</td> </tr> <tr> <td>SCALE</td> <td>N/A</td> </tr> <tr> <td>SHEET No.</td> <td></td> </tr> <tr> <td>DRG No.</td> <td>NSCR-DWG-CAL-AR-3376</td> </tr> <tr> <td>DRG S.</td> <td>REV 02</td> </tr> </table>	DATE	OCTOBER 2017	SCALE	N/A	SHEET No.		DRG No.	NSCR-DWG-CAL-AR-3376	DRG S.	REV 02
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HW SET:		20	
LOCATION OF OPENING:		SINGLE DOOR D9 (EMERGENCY EXIT)	
		NO. OF DOORS: 6	
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 x 2100 x 44mm	
	ST DR	x	ST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
24	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION
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
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
6	SETS	MISCELLANEOUS ITEMS	EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION

HW SET:		21	
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 x 2100 x 44mm	
	ST DR	x	ST FR
QTY.	UNIT	ITEM TYPE	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
4	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95
			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
2	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

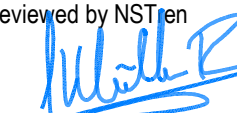
HW SET:		22	
LOCATION OF OPENING:		DOUBLE DOOR D10	
		NO. OF DOORS: 5	
ROOM NO.	131	HALLWAY	
	134	COMM RM	
	137	AFC UPS RM	
	144	BMS ROOM	
HANDING:		RIGHT HAND (RH) ACTIVE (PAIR SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		2050 x 2100 x 44mm	
	ST DR	x	ST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
40	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN HEAVY DUTY BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
10	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95
			INTERCONNECTED SINGLE LOCKING ENTRY; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION
10	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	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
			×OR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:	
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
C	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	
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.

HW SET:		23	
LOCATION OF OPENING:		DOUBLE DOOR D10	
		NO. OF DOORS: 2	
ROOM NO.	136	CLEANER'S RM	
	139	STORAGE	
HANDING:		LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)	
DIMENSIONS & DOOR/FRAME TYPE:		2050 x 2100 x 44mm	
	ST DR	x	ST FR
QTY.	UNIT	ITEM TYPE	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
4	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F86
			STOREROOM / CLOSET / VESTIBULE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION
4	SETS	DOOR STOP	MAGNETIC DOORSTOP WITH CATCH SCREW MOUNT
2	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, ASTRAGAL, PEST PROOFING, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			×OR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

 Jorge Müller
 Project Director

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

Last modified by MARINDO-C8 / 04 Jul 2018
 Filename: X:\Users\CAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01\B05 OF 11\1 DWG\NSCR-DWG-CAL-AR-3377-R1

VER	DATE	DESCRIPTION	 DEPARTMENT OF TRANSPORTATION REPUBLIC OF THE PHILIPPINES	DESIGN CONSULTANT JICA DETAILED DESIGN STUDY TEAM	TITLE	JDT	SMEC	THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)	DATE	OCTOBER 2017
03	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM			 PHILIPPINE NATIONAL RAILWAYS	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DESIGNER		H. KISHI	A. ALLI
			 ORIENTAL CONSULTANTS GLOBAL CO., LTD.	 KATAHIRA & ENGINEERS INTERNATIONAL	CHECK	A. AIKAWA	N. HAMILTON	SHEET No.		
			 PACIFIC CONSULTANTS CO., LTD.	 JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.	TEAM LEADER	N. MATSUMOTO	J. BARNES	DRG No.	NSCR-DWG-CAL-AR-3377	
			 TONICHI ENGINEERING CONSULTANTS INC.	PROJ. MANAGER	M. MIYATA	M. Ueyama	R. YUZON, JR.	DRG S.	REV	
										03

CALOOCAN STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 7

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 x 2100	x 4mm	
		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	A
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	A
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		09		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 2	
		ROOM NO. 146	OCS RM	
		147	SECURITY RM	
		HANDING: LEFT HAND (LH) (SWING IN)		
DIMENSIONS & DOOR/FRAME TYPE:		1050 x 2100	x 4mm	
		ST DR	x 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	A
2	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION 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	A
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, ACCESS CARD/ SECURITY (AS APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		10		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 1	
		ROOM NO. 112	CUSTOMER SERVICE RM, POS (3) ENT, POS (2) EX	
		HANDING: RIGHT HAND (RH) (SWING IN)		
DIMENSIONS & DOOR/FRAME TYPE:		1050 x 2100	x 4mm	
		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	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	A
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:

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
C	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

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.

HW SET:		11		
LOCATION OF OPENING:		SINGLE DOOR D5	NO. OF DOORS: 1	
		ROOM NO. 133	STATION STAFF RM & PANTRY	
		HANDING: RIGHT HAND REVERSE (RHR) (SWING OUT)		
DIMENSIONS & DOOR/FRAME TYPE:		1050 x 2100	x 4mm	
		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	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	A
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, PEST PROOFING, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

Jorge Müller

Jorge Müller
Project Director

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

Last modified by AGCAOLI-C6 / 04 Jul 2018
Filename: X:\Users\YCAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01\B06 OF 11\NSCR-DWG-BOC-AR-3373_R1

VER	DATE	DESCRIPTION		DESIGN CONSULTANT JICA DETAILED DESIGN STUDY TEAM 	TITLE: JDT, SMEC DESIGNER: H. KISHI, A. ALLI CHECK: A. AIKAWA, N. HAMILTON TEAM LEADER: N. MATSUMOTO, J. BARNES PROJ. MANAGER: M. MIYATA, 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 3	DATE	OCTOBER 2017	
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM					SCALE	N/A	SHEET No.
							DRG S.	REV	02

HW SET:		12	
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:		950	x 2100 x 44mm
		ST	DR x ST FR
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 FUNCTION CODE: F76B
			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
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		13	
LOCATION OF OPENING:		SINGLE DOOR D6	
		NO. OF DOORS: 3	
		ROOM NO.	121 GAD RM
			122 BFR RM
			132 STAFF TOILET 1 (MALE)
		HANDING: RIGHT HAND (RH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		950	x 2100 x 44mm
		ST	DR x ST FR
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS
12	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
3	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F76B
			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 FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; PER MANUFACTURER'S RECOMMENDATION
3	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		14	
LOCATION OF OPENING:		SINGLE DOOR D7	
		NO. OF DOORS: 1	
		ROOM NO.	123 STORAGE
		HANDING: RIGHT HAND (RH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		750	x 2100 x 44mm
		ST	DR x ST FR
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS
3	PCS	DOOR HINGE	4 1/2" X 4" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F86
			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
1	SET	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, PEST PROOFING, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:	
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
C	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	
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.

HW SET:		15	
LOCATION OF OPENING:		SINGLE DOOR D7	
		NO. OF DOORS: 2	
		ROOM NO.	123 STORAGE
			150 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	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
6	PCS	DOOR HINGE	4 1/2" X 4" BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
2	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	
2	SETS	DOOR STOP	MAGNETIC DOORSTOP WITH CATCH SCREW MOUNT	630
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, PEST PROOFING, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren
Jorge Müller
Jorge 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



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

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

DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-BOC-AR-3374
DRG S.	REV 02

HW SET:		16				
LOCATION OF OPENING:		SLIDING DOOR D8		NO. OF DOORS: 1		
		ROOM NO.	118	PWD TOILET 1		
		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
1	SET	DOOR TRACK SYSTEM & ASSEMBLY	TOP HUNG SLIDING DOOR TRACK SYSTEM; ROUND RAIL TRACK, SIDEWALL MOUNTED; METAL ROUND RAIL DOOR HANGERS (1 PAIR PER SET), BALL BEARING; PER MANUFACTURER'S DESIGN & SPECIFICATIONS			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			A
1	SET	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUFACTURER'S DESIGN & SPECIFICATIONS			A
2	SETS	VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)			630
			HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 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	STAINLESS STEEL THRESHOLDS, END STOP, BUMPER SHOES, DOOR BUMPERS, BOLTS, FASTENERS, ASTRAGALS, STAY ROLLERS, JAMB LATCHES, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS			A
						xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:

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
C	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

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

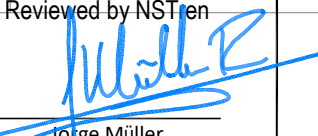
DEADLOCKING LATCHBOLT (DEADLATCH) - INCLUDES A GUARDBOLT TO PREVENT "SHIMMING" OR "JIMMYING" OF THE LATCH BOLT; ARRANGEMENT PREVENTS THE LATCHBOLT FROM BEING DEPRESSED THROUGH THE USE OF A CREDIT CARD OR SOME OTHER TOOL, WHICH WOULD LEAD TO UNAUTHORIZED ENTRY.

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.

HW SET:		17				
LOCATION OF OPENING:		SLIDING DOOR D8		NO. OF DOORS: 1		
		ROOM NO.	118	PWD TOILET 2		
		HANDING: LEFT 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
1	SET	DOOR TRACK SYSTEM & ASSEMBLY	TOP HUNG SLIDING DOOR TRACK SYSTEM; ROUND RAIL TRACK, SIDEWALL MOUNTED; METAL ROUND RAIL DOOR HANGERS (1 PAIR PER SET), BALL BEARING; PER MANUFACTURER'S DESIGN & SPECIFICATIONS			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			A
1	SET	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUFACTURER'S DESIGN & SPECIFICATIONS			A
2	SETS	VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)			630
			HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 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	STAINLESS STEEL THRESHOLDS, END STOP, BUMPER SHOES, DOOR BUMPERS, BOLTS, FASTENERS, ASTRAGALS, STAY ROLLERS, JAMB LATCHES, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS			A
						xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NST on




Jorge Müller
Project Director

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

HW SET:		18				
LOCATION OF OPENING:		SINGLE DOOR D9 (EMERGENCY EXIT)		NO. OF DOORS: 6		
		ROOM NO.	117	RAMPS 1 & 2 (EMERGENCY EXIT)		
			103	EMERGENCY EXIT 1		
			142	EMERGENCY EXIT STAIR 2		
				FIRE EXIT STAIRS 1 & 4 (PLATFORM)		
		HANDING: LEFT 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
24	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION			A
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			A
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			A
6	SETS	MISCELLANEOUS ITEMS	EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A
						xOR PER MANUFACTURER'S SPECIFICATIONS

Last modified by AGCAOLI-C6 / 04 Jul 2018
Filename: X:\Users\ACAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01\B06 OF 11\NSCR-DWG-BOC-AR-3375_R1

VER	DATE	DESCRIPTION	DESIGN CONSULTANT			DATE																	
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM				OCTOBER 2017																	
			<table border="1"> <tr> <th>TITLE</th> <th>JDT</th> <th>SMEC</th> </tr> <tr> <td>DESIGNER</td> <td>H. KISHI</td> <td>A. ALLI</td> </tr> <tr> <td>CHECK</td> <td>A. AIKAWA</td> <td>N. HAMILTON</td> </tr> <tr> <td>TEAM LEADER</td> <td>N. MATSUMOTO</td> <td>J. BARNES</td> </tr> <tr> <td>PROJ. MANAGER</td> <td>M. MIYATA</td> <td>R. YUZON, JR.</td> </tr> </table>			TITLE	JDT	SMEC	DESIGNER	H. KISHI	A. ALLI	CHECK	A. AIKAWA	N. HAMILTON	TEAM LEADER	N. MATSUMOTO	J. BARNES	PROJ. MANAGER	M. MIYATA	R. YUZON, JR.	THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)		
TITLE	JDT	SMEC																					
DESIGNER	H. KISHI	A. ALLI																					
CHECK	A. AIKAWA	N. HAMILTON																					
TEAM LEADER	N. MATSUMOTO	J. BARNES																					
PROJ. MANAGER	M. MIYATA	R. YUZON, JR.																					
			DETAILED DESIGN																				
			BOCAUE STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 5																				
			SCALE: N/A																				
			SHEET No.																				
			DRG No. NSCR-DWG-BOC-AR-3375																				
			DRG S. REV 02																				

HW SET:		19			
LOCATION OF OPENING:		SINGLE DOOR D9 (EMERGENCY EXIT)		NO. OF DOORS: 4	
ROOM NO.	103	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	x	2100	x 44mm
	ST	DR	x	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	SETS	MISCELLANEOUS ITEMS	EXIT STOPPER DOOR ALARM, ASTRAGAL, STAINLESS STEEL THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

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

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
48	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN HEAVY DUTY BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
12	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	
12	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
6	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	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		21			
LOCATION OF OPENING:		DOUBLE DOOR D10		NO. OF DOORS: 2	
ROOM NO.	136	CLEANER'S RM			
	139	STO. RM			
HANDING:	RIGHT HAND (RH) ACTIVE (SWING IN)				
DIMENSIONS & 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 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 DOORSTOP WITH CATCH SCREW MOUNT	630
2	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, ASTRAGAL, PEST PROOFING, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

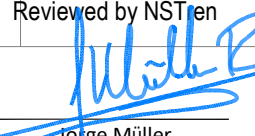
LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME MATERIAL:	
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
HARDWARE FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
A	STEEL BASE METAL
C	STAINLESS STEEL BASE METAL

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	
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.

HW SET:		22			
LOCATION OF OPENING:		DOUBLE DOOR D10		NO. OF DOORS: 1	
ROOM NO.	143	STN. ELE. RM			
HANDING:	LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (SWING OUT)				
DIMENSIONS & DOOR/FRAME TYPE:		2050	x	2100	x 44mm
	ST	DR	x	ST	FR

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	A
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
				xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

 Jorge 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



DESIGN CONSULTANT		
JICA DETAILED DESIGN STUDY TEAM		
 ORIENTAL CONSULTANTS GLOBAL CO., LTD.	 KATAHIRA & ENGINEERS INTERNATIONAL	 JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.
 PACIFIC CONSULTANTS CO., LTD.	 TONICHI ENGINEERING CONSULTANTS INC.	
TITLE	JDT	SMEC
DESIGNER	H. KISHI	A. ALLI
CHECK	A. AIKAWA	N. HAMILTON
TEAM LEADER	N. MATSUMOTO	J. BARNES
PROJ. MANAGER	M. MIYATA	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 6

DATE	OCTOBER 2017
SCALE	N/A
SHEET No.	
DRG No.	NSCR-DWG-BOC-AR-3376
DRG S.	REV 02

Last modified by AGCAOILI-C6 / 04 Jul 2018
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HW SET:		23	
LOCATION OF OPENING:		SINGLE DOOR D11	NO. OF DOORS: 1
		ROOM NO. 105	DIST. BRD. RM
		HANDING: RIGHT HAND (RH) (SWING IN)	
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	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
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		24	
LOCATION OF OPENING:		SINGLE DOOR D11	NO. OF DOORS: 1
		ROOM NO. 109	MAINTENANCE SHOP
		HANDING: LEFT HAND (LH) (SWING IN)	
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	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
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		25	
LOCATION OF OPENING:		SINGLE DOOR D12 (LOUVER)	NO. OF DOORS: 3
		ROOM NO. 149	WATER PUMP & TANK RM
		203	EPS RM 1 & 4
		HANDING: LEFT 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
12	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
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	A
3	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, WEATHERSTRIP, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:

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
C	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

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.

Reviewed by NSTren

Jorge Müller

Jorge Müller
Project Director

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

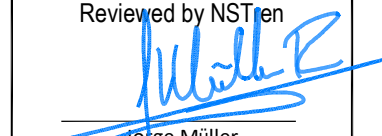
HW SET:		26	
LOCATION OF OPENING:		SINGLE DOOR D12 (LOUVER)	NO. OF DOORS: 3
		ROOM NO. 149	WATER PUMP & TANK RM
		203	EPS RM 2 & 3
		HANDING: RIGHT HAND REVERSE (RHR) (SWING OUT)	
DIMENSIONS & DOOR/FRAME TYPE:		1050 x 2100	x 44mm
		ST DR	x ST FR

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
12	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
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	A
3	SETS	MISCELLANEOUS ITEMS	STAINLESS STEEL THRESHOLDS, WEATHERSTRIP, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
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Filename: X:\Users\YCAD Shared\Y20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID.DOC\Revised Drawings\CP01\B06 OF 11\NSCR-DWG-BOC-AR-3377_R1

<table border="1"> <tr> <th>VER</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>02</td> <td>25 OCT 2017</td> <td>FINAL REVISION OF JICA DESIGN TEAM</td> </tr> </table>	VER	DATE	DESCRIPTION	02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM		<p align="center">DESIGN CONSULTANT</p> <p align="center">JICA DETAILED DESIGN STUDY TEAM</p> <table border="1"> <tr> <td>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</td> <td>KATAHIRA & ENGINEERS INTERNATIONAL</td> <td>JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.</td> </tr> <tr> <td>PACIFIC CONSULTANTS CO., LTD.</td> <td>TONICHI ENGINEERING CONSULTANTS INC.</td> <td></td> </tr> </table>	ORIENTAL CONSULTANTS GLOBAL CO., LTD.	KATAHIRA & ENGINEERS INTERNATIONAL	JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.	PACIFIC CONSULTANTS CO., LTD.	TONICHI ENGINEERING CONSULTANTS INC.		<table border="1"> <tr> <th>TITLE</th> <th>JDT</th> <th>SMEC</th> </tr> <tr> <td>DESIGNER</td> <td>H. KISHI</td> <td>A. ALLI</td> </tr> <tr> <td>CHECK</td> <td>A. AIKAWA</td> <td>N. HAMILTON</td> </tr> <tr> <td>TEAM LEADER</td> <td>N. MATSUMOTO</td> <td>J. BARNES</td> </tr> <tr> <td>PROJ. MANAGER</td> <td>M. MIYATA</td> <td>R. YUZON, JR.</td> </tr> </table>	TITLE	JDT	SMEC	DESIGNER	H. KISHI	A. ALLI	CHECK	A. AIKAWA	N. HAMILTON	TEAM LEADER	N. MATSUMOTO	J. BARNES	PROJ. MANAGER	M. MIYATA	R. YUZON, JR.	<p align="center">THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)</p> <p align="center">DETAILED DESIGN</p> <p align="center">BOCAUE STATION ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 7</p>	<table border="1"> <tr> <td>DATE</td> <td>OCTOBER 2017</td> </tr> <tr> <td>SCALE</td> <td>N/A</td> </tr> <tr> <td>SHEET No.</td> <td></td> </tr> <tr> <td>DRG No.</td> <td>NSCR-DWG-BOC-AR-3377</td> </tr> <tr> <td>DRG S.</td> <td>REV 02</td> </tr> </table>	DATE	OCTOBER 2017	SCALE	N/A	SHEET No.		DRG No.	NSCR-DWG-BOC-AR-3377	DRG S.	REV 02
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DESCRIPTION	APPLICATION / SUBSTRATE	APPLICATION PROCEDURE	THICKNESS	REMARKS	DESCRIPTION	APPLICATION / SUBSTRATE	APPLICATION PROCEDURE	THICKNESS	REMARKS
EXTERIOR SYSTEMS									
01 METAL, NON-FERROUS					04 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. ONE COAT OF LATEX PRIMER SEALER	GYPSUM BOARD WALLS	ROLLER OR BRUSH	1-1.5 MILS / COAT (PRIMER COAT)	
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	ROLLER OR BRUSH	1-1.5 MILS / COAT (SECONDARY / TOP COAT)	
	METER AND VALVE COVERS	BRUSH OR ROLLER			3. FLAT; TWO COATS OF LATEX ENAMEL	SOFFITS PLASTER & GYPSUM CEILINGS	ROLLER OR BRUSH ROLLER OR BRUSH		
02 METAL, FERROUS, PRIMED					05 WOOD				
LOW VOC, TWO COMPONENT FLOURINE AND POLY URETHANE COATING					OIL BASED STAIN, 3 COATS SYSTEM				
1. ALKYD TYPE PRIMER	HOLLOW METEL DOOR AND FRAMES	SPRAY	2-3 MILS (51-76 MICRONS) PRIMER COATING		1. BASE COAT- OIL WOOD STAIN	WOODEN DOOR FRAME	BRUSH OR ROLLER	1.5 MICRONS / COAT	
2. LOW VOC FLUORURETHANE FINISH, TWO COAT SYSTEM	STEEL LOUVERS	SPRAY	2-3 MILS (51-76 MICRONS) SECOND & TOP COATING		2. MID COAT; SANDING SEALER				
	STEEL ROOF	SPRAY OR ROLLER			3. TOP COAT; CLEAR GLOSS POLYURETHANE COATING				
	STEEL WALL SIDINGSx	SPRAY OR ROLLER			06 FIREPROOFING				
03 CONCRETE / MASONRY									
SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM						STEEL COLUMNS, MAIN	SPRAY, BRUSH, OR ROLLER	30MILS (0.80mm) / COAT	
1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT)	CONCRETE AND CONCRETE MASONRY UNITS EXPOSED TO VIEWS	BRUSH OR ROLLER	1-3 MILS (25-76MICRONS)			STEEL BEAMS, MAIN	SPRAY, BRUSH, OR ROLLER	30MILS (0.80mm) / COAT	
2. SEALER AND PIGMENTED ACRYLIC (TRANSLUCENT OR OPAQUE FINISH)						STEEL RAFTER, MAIN	SPRAY, BRUSH, OR ROLLER	30MILS (0.80mm) / COAT	
						STEEL DECKING	SPRAY, BRUSH, OR ROLLER	30MILS (0.80mm) / COAT	
INTERIOR SYSTEM									
01 METAL, FERROUS					07 CONCRETE FLOORING				
1. TOUCH UP WITH ALKYD TYPE PRIMER	HANDRAILS	BRUSH OR ROLLER	1-1.5 MILS / COAT (PRIMER COATING)		WATERBASED SELF LEVELLING EPOXY, 2 COMPONENT				
	RAILINGS	BRUSH OR ROLLER	1-1.5 MILS / COAT (SONCDARY / TOP COATING)		1. EPOXY PRIMER	CONCRETE FLOORING INDICATED IN THE PLANS AND SCHEDULE	ROLLER	3-5MM	
2. GLOSS; TWO COATS OF ALKYD ENAMEL	STEEL STAIRS	BRUSH OR ROLLER			2. SELF-LEVELLING COMPOUND	EQUIPMENTS ROOMS CONCRETE FLOOR			
	STEEL WALL SIDINGS	BRUSH OR ROLLER			3. BASE COLOR/ MARKINGS				
	STEEL GIRTS	BRUSH OR ROLLER			4. CLEAR / TOP COATING				
	STEEL MESH	BRUSH OR ROLLER			08 CONCRETE / MASONRY, ACID PRONE AREA				
	GUARD POST	BRUSH OR ROLLER			SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM				
02 METAL, NON-FERROUS					1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT)				
LOW VOC, ALKYD RESIN TYPE, 3 COAT SYSTEM					2. SEALER AND PIGMENTED ACRYLIC (TRANSLUCENT OR OPAQUE FINISH)	CONCRETE AND CONCRETE MASONRY UNITS EXPOSED TO HIGH ACIDITY	BRUSH OR ROLLER	1-3 MILS (25-76MICRONS)	
1. ONE COAT OF ALKYD TYPE PRIMER	B.I PIPES	BRUSH OR ROLLER	2-3 MILS (51-76 MICRONS) PRIMER COATING						
2. SEMI-GLOSS; TWO COATS OF ALKYD ENAMEL			2-3 MILS (51-76 MICRONS) SECOND & TOP COATING						
03 CONCRETE / MASONRY									
OPAQUE, LATEX, 3 COATS									
1. ONE COAT OF BLOCK FILLER	CONCRETE AND CONCRETE MASONRY UNITS EXPOSED TO VIEW	ROLLER OR BRUSH	1-1.5 MILS / COAT (PRIMER COATING)						
2. SEMIGLOSS EGGSHELL; TWO COATS OF LATEX ENAMEL			1-1.5 MILS / COAT (SECONDARY / TOP COATING)						


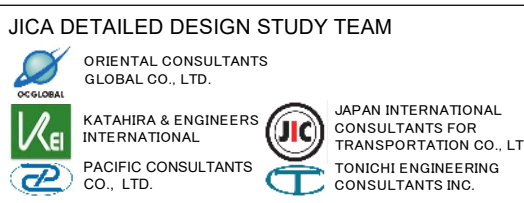
Reviewed by NSTren

 Jorge Müller
 Project Director

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

SCHEDULE OF PAINTS
 NTS

NOTES

- AS PER MANUFACTURER'S STANDARD MATERIAL SPECIFICATIONS AND SPECIFICATIONS

VER	DATE	DESCRIPTION				DESIGN CONSULTANT JICA DETAILED DESIGN STUDY TEAM 			THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN) DETAILED DESIGN VALENZUELA DEPOT-LIGHT REPAIR SHOP ARCHITECTURAL - SCHEDULE OF INTERIOR AND EXTERIOR PAINTING WORKS		DATE	OCTOBER 2017
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM				TITLE	JDT	SMC			SCALE	AS SHOWN @ A1
						DESIGNER	KATO / UCHIDA	A. ALLI			SHEET No.	
						CHECK	K. SAKAMOTO	N. HAMILTON			DRG No.	NSCR-DWG-LRS-AR-3391
						TEAM LEADER	N. MATSUMOTO	J. BARNES			DRG S.	REV
						PROJ. MANAGER	M. MIYATA	R. YUZON, JR.				02

HW SET:		01	
LOCATION OF OPENING:		MOTORIZED SHUTTER DOOR D13	NO. OF DOORS: 1
ROOM NO.	106	EMERGENCY GENERATOR RM	
HANDING:		NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		3000	x 2425 x GA 18 (1.2mm)
		SST	DR x SST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
1	SET	DOOR CURTAIN & ASSEMBLY	GA 18 STAINLESS STEEL SHUTTER DOOR (WITH VENTILATION HOLES); HIGH-SPEED MOTORIZED (HEAVY DUTY TYPE) WITH SAFETY STOP FUNCTION
1	SET	MISCELLANEOUS ITEMS	DOOR/LIFT HANDLE, SAFETY CHAIN ASSEMBLY, WEATHERSTRIP, THRESHOLD, COUNTERBALANCE, DEMOUNTABLE MIDPOST AS APPLICABLE, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		02	
LOCATION OF OPENING:		DOUBLE DOOR D2 (EMERGENCY EXIT WITH ELECTRICAL CARD KEY ACCESS DOOR)	NO. OF DOORS: 10
ROOM NO.	102	GF CORRIDOR TO ELEVATOR HALLS A & B	
	202	2F CORRIDOR TO ELEVATOR HALLS A & B	
	302	3F CORRIDOR TO ELEVATOR HALLS A & B	
	402-A	4F CORRIDOR TO ELEVATOR HALLS A & B	
	502	VIEWING AREA	
		(5F CORRIDOR TO ELEVATOR HALLS A & B)	
HANDING:		LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)	
DIMENSIONS & DOOR/FRAME TYPE:		2000	x 2100 x 44mm
		SST	DR x SST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
80	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION
10	SETS	DOOR PANIC HARDWARE (PAIR)	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
20	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
10	SETS	MISCELLANEOUS ITEMS	DOOR COORDINATOR/ DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), ASTRAGAL, THRESHOLDS, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

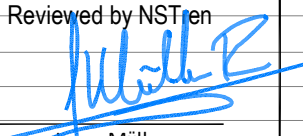
HW SET:		03	
LOCATION OF OPENING:		SINGLE DOOR D3	NO. OF DOORS: 5
ROOM NO.	126	PWD	
	205	2F PWD	
	305	3F PWD	
	405	4F PWD	
	505	5F PWD	
HANDING:		LEFT HAND REVERSE (LHR) (SWING OUT)	
DIMENSIONS & DOOR/FRAME TYPE:		1000	x 2100 x 44mm
		ST	DR x ST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
20	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
5	SETS	THUMBTURN (ACCESSIBLE) WITH OCCUPANCY INDICATOR	DEADBOLT WITH OCCUPANCY INDICATOR OUTSIDE ("OCCUPIED" OR "VACANT"), ADA COMPLIANT, WITH EMERGENCY KEY, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION
5	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
5	SETS	PUSH PLATES	300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE)
10	SETS	KICK PLATES	DIMENSION: 300mm HIGH X DOOR WIDTH
			STEEL PLATE W/ SCREWS; FOR BOTH SIDES
5	SETS	DOOR CLOSER ASSEMBLY	ADA BARRIER FREE DOOR CLOSER; SURFACE MOUNTED, PARALLEL ARM (PUSH SIDE); UL-LISTED, 3 HOURS FIRE RATING; NON-HANDED; WITH BACKCHECK AND DELAY ACTION; OPTION FOR HOLD OPEN FUNCTION; PER MANUFACTURER'S RECOMMENDATION
5	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

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

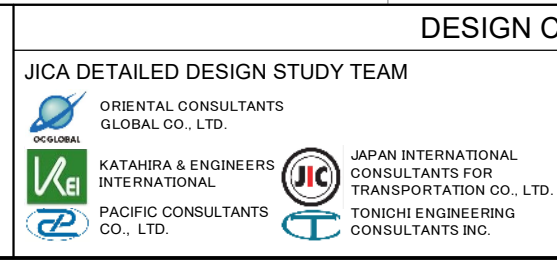
HW SET:		04	
LOCATION OF OPENING:		SINGLE DOOR D4	NO. OF DOORS: 5
ROOM NO.	128	FEMALE TOILET 1	
	207	2F FEMALE TOILET 1	
	307	3F FEMALE TOILET 1	
	407	4F FEMALE TOILET 1	
	507	5F FEMALE TOILET	
HANDING:		LEFT HAND (LH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		1000	x 2100 x 44mm
		ST	DR x ST FR
QTY.	UNIT	ITEM TYPE	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 STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)
			HANDLE: 425mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE
5	SETS	PUSH PLATES	300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE)
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 HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

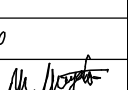
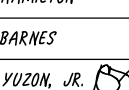
Reviewed by NSTren

 Jorge Müller
 Project Director

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

Last modified by AGCAOILI-C6 / 15 May 2018
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VER	DATE	DESCRIPTION
01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM



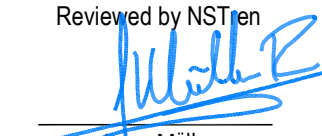
DESIGN CONSULTANT		
TITLE	JDT	SMEC
DESIGNER	KATO / UCHIDA	A. ALLI
CHECK	K. SAKAMOTO	N. HAMILTON
TEAM LEADER	N. MATSUMOTO	J. BARNES
PROJ. MANAGER	M. MIYATA 	R. YUZON, JR. 

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)	
DATE	OCTOBER 2017
SCALE	AS SHOWN @ A1
SHEET No.	
DRG No.	NSCR-DWG-OCC-AR-3371
DRG S.	REV
	01

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

HW SET:		05				
LOCATION OF OPENING:		SINGLE DOOR D4		NO. OF DOORS: 5		
ROOM NO.	125	MALE TOILET 1				
	204	2F MALE TOILET 1				
	304	3F MALE TOILET 1				
	404	4F MALE TOILET 1				
	504	5F MALE TOILET				
HANDING:		RIGHT HAND (RH) (SWING IN)				
DIMENSIONS & DOOR/FRAME TYPE:		1000	x	2100	x	44mm
		ST	DR	x	ST	FR
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS			FINISH SPECIFICATIONS
20	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION			A
5	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			
5	SETS	PUSH PLATES	300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH 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			A
5	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A
						xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		06				
LOCATION OF OPENING:		SINGLE DOOR D5 (WITH ELECTRICAL CARD KEY ACCESS DOOR)		NO. OF DOORS: 2		
ROOM NO.	100-B	STAIR 2-GF				
	600-A	STAIR 1-R				
HANDING:		RIGHT HAND REVERSE (RHR) (SWING OUT)				
DIMENSIONS & DOOR/FRAME TYPE:		1000	x	2100	x	44mm
		ST	DR	x	ST	FR
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS			FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION			A
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
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			A
2	SETS	MISCELLANEOUS ITEMS	ACCESS CARD/ SECURITY, EXIT STOPPER DOOR ALARM, ASTRAGAL, THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A
						xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

 Jorge 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
FG	FULL GLASS
FRML	FRAMELESS
HARDWARE FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
673	ALUMINUM, CLEAR COATED
689	ALUMINUM PAINTED
A	STEEL BASE METAL
C	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	
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 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	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:		07				
LOCATION OF OPENING:		SINGLE DOOR D5 (WITH ELECTRICAL CARD KEY ACCESS DOOR)		NO. OF DOORS: 2		
ROOM NO.	100-A	STAIR 1-GF				
	600-B	STAIR 2-R				
HANDING:		LEFT HAND REVERSE (LHR) (SWING OUT)				
DIMENSIONS & DOOR/FRAME TYPE:		1000	x	2100	x	44mm
		ST	DR	x	ST	FR
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS			FINISH SPECIFICATIONS
8	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION			A
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
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			A
2	SETS	MISCELLANEOUS ITEMS	ACCESS CARD/ SECURITY, EXIT STOPPER DOOR ALARM, ASTRAGAL, THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A
						xOR PER MANUFACTURER'S SPECIFICATIONS

Last modified by POLICARPIO-C7 / 04 Jul 2018
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VER	DATE	DESCRIPTION
01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM



DESIGN CONSULTANT		
JICA DETAILED DESIGN STUDY TEAM		
ORIENTAL CONSULTANTS GLOBAL CO., LTD.	JDT	SMEC
KATAHIRA & ENGINEERS INTERNATIONAL	DESIGNER: KATO / UCHIDA	A. ALLI
PACIFIC CONSULTANTS CO., LTD.	CHECK: K. SAKAMOTO	N. HAMILTON
TONICHI ENGINEERING CONSULTANTS INC.	TEAM LEADER: N. MATSUMOTO	J. BARNES
	PROJ. MANAGER: M. MIYATA	R. YUZON, JR.

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)
DATE: OCTOBER 2017
SCALE: AS SHOWN @ A1
SHEET No.
DRG No. NSCR-DWG-OCC-AR-3372
DRG S. REV 01

VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 2

HW SET:	11				
LOCATION OF OPENING:	DOUBLE DOOR D8 (WITH ELECTRICAL CARD KEY ACCESS DOOR)		NO. OF DOORS: 12		
	ROOM NO.				
	212	CREW MANAGEMENT RM			
	311	CONFERENCE RM-1			
	312	CONFERENCE RM-2			
	313	CONFERENCE RM-3			
	316	FACILITY MANAGEMENT DIVISION RM			
	332	ELECTRIC MANAGEMENT ROOM			
	409	CONFERENCE RM			
	410	TRAINING RM			
HANDING:	RIGHT HAND (RH) ACTIVE (PAIR SWING IN)				
DIMENSIONS & DOOR/FRAME TYPE:	2000	x	2100	x	44mm
	ST	DR	x	ST	FR

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
96	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
12	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
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	
0			PLATE: 75mmW x 300mmH x 2mmT	
24	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
12	SETS	MISCELLANEOUS ITEMS	DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				×OR PER MANUFACTURER'S SPECIFICATIONS

HW SET:	12				
LOCATION OF OPENING:	DOUBLE DOOR D8 (WITH ELECTRICAL CARD KEY ACCESS DOOR)		NO. OF DOORS: 8		
	ROOM NO.				
	101-B	GF CORRIDOR AT ENTRANCE LOBBY			
	102	GF CORRIDOR			
	118	CUR			
	119	CER			
	223	BEDROOM MALE			
	224	BEDROOM FEMALE			
	415	OCC RM			
HANDING:	LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)				
DIMENSIONS & DOOR/FRAME TYPE:	2000	x	2100	x	44mm
	ST	DR	x	ST	FR

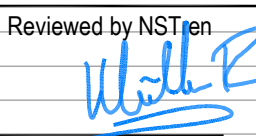
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
64	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
8	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95	630
			INTERCONNECTED SINGLE LOCKING ENTRY (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
16	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 2mmT	
16	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
8	SETS	MISCELLANEOUS ITEMS	DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				×OR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME MATERIAL:	
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
FG	FULL GLASS
FRML	FRAMELESS
HARDWARE FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
673	ALUMINUM, CLEAR COATED
689	ALUMINUM PAINTED
A	STEEL BASE METAL
C	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	
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.
E2161	DEADLOCK (CYLINDER)	DEADBOLT THROWN OR RETRACTED BY KEY FROM ONE SIDE.

HW SET:	13				
LOCATION OF OPENING:	DOUBLE DOOR D8		NO. OF DOORS: 4		
	ROOM NO.				
	104	LOW VOLTAGE ELECTRICAL RM			
	105	HIGH VOLTAGE ELECTRICAL RM			
	214	CREW MANAGEMENT DIVISION LOUNGE			
	419	OCC LOUNGE			
HANDING:	RIGHT HAND (RH) ACTIVE (PAIR SWING IN)				
DIMENSIONS & DOOR/FRAME TYPE:	2000	x	2100	x	44mm
	ST	DR	x	ST	FR

Reviewed by NSTren

 Jorge Müller
 Project Director

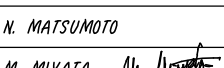
This Drawing was originally prepared by JICA design team and reviewed/adjusted by NSTren Consortium

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
32	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN 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 (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
8	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 2mmT	
8	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	SETS	MISCELLANEOUS ITEMS	DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), THRESHOLDS, ASTRAGAL, PEST PROOFING (AS APPLICABLE) & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				×OR PER MANUFACTURER'S SPECIFICATIONS

Last modified by POLICARPIO-C7 / 04 Jul 2018
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VER	DATE	DESCRIPTION
01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM



DESIGN CONSULTANT		
JICA DETAILED DESIGN STUDY TEAM		
ORIENTAL CONSULTANTS GLOBAL CO., LTD.	KATAHIRA & ENGINEERS INTERNATIONAL	JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.
PACIFIC CONSULTANTS CO., LTD.	TONICHI ENGINEERING CONSULTANTS INC.	
TITLE	JDT	SMEC
DESIGNER	KATO / UCHIDA	A. ALLI
CHECK	K. SAKAMOTO	N. HAMILTON
TEAM LEADER	N. MATSUMOTO	J. BARNES
PROJ. MANAGER	M. MIYATA 	R. YUZON, JR. 

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)
DETAILED DESIGN
VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 4

DATE	OCTOBER 2017
SCALE	AS SHOWN @ A1
SHEET No.	
DRG No.	NSCR-DWG-OCC-AR-3374
DRG S.	REV
	01

HW SET:		14	
LOCATION OF OPENING:		DOUBLE DOOR D8	NO. OF DOORS: 2
ROOM NO.	118	CUR	
HANDING:	LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)		
DIMENSIONS & DOOR/FRAME TYPE:		2000	x 2100
ST	DR	x	FR
44mm			
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
16	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: F95
			INTERCONNECTED SINGLE LOCKING ENTRY (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION
4	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
0			PLATE: 75mmW x 300mmH x 2mmT
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
2	SETS	MISCELLANEOUS ITEMS	DOOR COORDINATOR/DOOR SELECTOR DEVICE (AS REQUIRED IF REBATED DOUBLE DOOR), THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

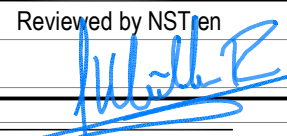
HW SET:		15	
LOCATION OF OPENING:		DOUBLE DOOR D8 (WITH ELECTRICAL CARD KEY ACCESS DOOR)	NO. OF DOORS: 1
ROOM NO.	107-A	CANTEEN-GF	
HANDING:	LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)		
DIMENSIONS & DOOR/FRAME TYPE:		2000	x 2100
ST	DR	x	FR
44mm			
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
8	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 FUNCTION CODE: 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
0			PLATE: 75mmW x 300mmH x 2mmT
2	SETS	DOOR CLOSER ASSEMBLY	ACCESS CARD/ SECURITY, THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
1	SET	MISCELLANEOUS ITEMS	THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		16	
LOCATION OF OPENING:		DOUBLE EGRESS DOOR D8 (WITH ELECTRICAL CARD KEY ACCESS DOOR)	NO. OF DOORS: 1
ROOM NO.	108	KITCHEN	
HANDING:	RH/LHR DOUBLE EGRESS (RIGHT HAND / LEFT HAND REVERSE)		
DIMENSIONS & DOOR/FRAME TYPE:		2000	x 2100
ST	DR	x	FR
44mm			
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
8	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 FUNCTION CODE: 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
0			PLATE: 75mmW x 300mmH x 2mmT
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
1	SET	MISCELLANEOUS ITEMS	ACCESS CARD/ SECURITY, THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

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

Reviewed by NSTren

 Jorge Müller
 Project Director

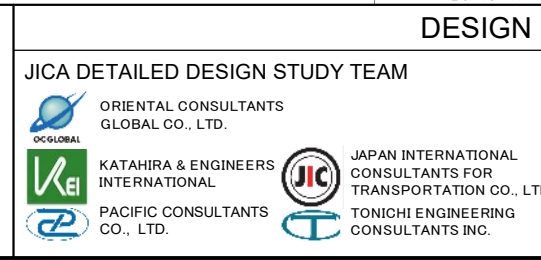
HW SET:		17	
LOCATION OF OPENING:		DOUBLE DOOR D8	NO. OF DOORS: 3
ROOM NO.	227	LINEN RM	
	228	LAUNDRY RM	
	310	STORAGE	
HANDING:	RIGHT HAND (RH) ACTIVE (PAIR SWING IN)		
DIMENSIONS & DOOR/FRAME TYPE:		2000	x 2100
ST	DR	x	FR
44mm			

QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
24	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F86
			STOREROOM / CLOSET / VESTIBULE LOCK (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)
			HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE
0			PLATE: 75mmW x 300mmH x 2mmT
6	SETS	DOOR STOP	MAGNETIC DOORSTOP WITH CATCH SCREW MOUNT
3	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

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

Last modified by POLICARPIO-C7 / 05 Jul 2018
 Filename: X:\Users\ACAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01B08 OF 11\01 DWG\NSCR-DWG-0CC-AR-3375_R1

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



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

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)	
DATE: OCTOBER 2017	
SCALE: AS SHOWN @ A1	
SHEET No.	
VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 5	

DRG No.	NSCR-DWG-0CC-AR-3375
DRG S.	REV 01

HW SET:		18				
LOCATION OF OPENING:		DOUBLE DOOR D9 (LOUVER)		NO. OF DOORS: 3		
	ROOM NO.	104	LOW VOLTAGE ELECTRICAL RM			
		105	HIGH VOLTAGE ELECTRICAL RM			
		106	EMERGENCY GENERATOR RM			
HANDING:		LEFT HAND REVERSE BEVEL (LHRB) ACTIVE (PAIR SWING OUT)				
DIMENSIONS & DOOR/FRAME TYPE:		2000	x	2400	x	44mm
		ST	DR	x	ST	FR
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS			FINISH SPECIFICATIONS
24	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION			A
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95			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
0			HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE			
0			PLATE: 75mmW x 300mmH x 2mmT			
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			A
3	SETS	MISCELLANEOUS ITEMS	FLUSHED TYPE FOOTBOLTS/ FLUSHBOLTS, THRESHOLDS, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A
						xOR PER MANUFACTURER'S SPECIFICATIONS

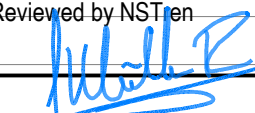
HW SET:		19				
LOCATION OF OPENING:		SINGLE DOOR D10		NO. OF DOORS: 4		
	ROOM NO.	114	FEMALE TOILET 2			
		217	2F FEMALE TOILET 2			
		325	3F FEMALE TOILET 2			
		421	4F FEMALE TOILET 2			
HANDING:		LEFT HAND (LH) (SWING IN)				
DIMENSIONS & DOOR/FRAME TYPE:		900	x	2100	x	44mm
		ST	DR	x	ST	FR
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS			FINISH SPECIFICATIONS
16	PCS	DOOR HINGE	4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION			A
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
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
4	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A
						xOR PER MANUFACTURER'S SPECS

HW SET:		20				
LOCATION OF OPENING:		SINGLE DOOR D10		NO. OF DOORS: 4		
	ROOM NO.	115	MALE TOILET 2			
		220	2F MALE TOILET 2			
		328	3F MALE TOILET 2			
		424	4F MALE TOILET 2			
HANDING:		RIGHT HAND (RH) (SWING IN)				
DIMENSIONS & DOOR/FRAME TYPE:		900	x	2100	x	44mm
		ST	DR	x	ST	FR
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS			FINISH SPECIFICATIONS
16	PCS	DOOR HINGE	4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION			A
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
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
4	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A
						xOR PER MANUFACTURER'S SPECS

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

Reviewed by NSTren

 Jorge Müller
 Project Director

HW SET:		21				
LOCATION OF OPENING:		SINGLE DOOR D11 (LOUVER WITH ELECTRICAL CARD KEY ACCESS DOOR)		NO. OF DOORS: 1		
	ROOM NO.	113	SECURITY ROOM			
HANDING:		LEFT HAND REVERSE (LHR) (SWING OUT)				
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" 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
						xOR PER MANUFACTURER'S SPECIFICATIONS

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

Last modified by POLICARPIO-C7 / 05 Jul 2018
 Filename: X:\Users\ACAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01B08 OF 11\01 DWG\NSCR-DWG-OCC-AR-3376_R1

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



DESIGN CONSULTANT

JICA DETAILED DESIGN STUDY TEAM

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

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

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

DETAILED DESIGN

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

DATE	OCTOBER 2017
SCALE	AS SHOWN @ A1
SHEET No.	
DRG No.	NSCR-DWG-OCC-AR-3376
DRG S.	REV 01

HW SET: 22				
LOCATION OF OPENING:	SINGLE DOOR D12 (WITH ELECTRICAL CARD KEY ACCESS DOOR) NO. OF DOORS: 5			
ROOM NO.	109 CLINIC 116 COMMUNICATION EQUIPMENT RM 418 VESTIBULE 510 MEETING RM 4 515 MEETING ROOM 1			
HANDING:	LEFT HAND (LH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:				
1000	x 2100 x 44mm			
ST	DR x ST FR			
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
20	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
5	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A	630
			ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
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	A
5	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET: 23				
LOCATION OF OPENING:	SINGLE DOOR D12 (WITH ELECTRICAL CARD KEY ACCESS DOOR) NO. OF DOORS: 5			
ROOM NO.	113 SECURITY ROOM 414 OCC ASSISTANCE RM 509 GUEST RM 511 MEETING RM 2 514 MEETING ROOM 3			
HANDING:	RIGHT HAND (RH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:				
1000	x 2100 x 44mm			
ST	DR x ST FR			
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
20	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
5	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A	630
			ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
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	A
5	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

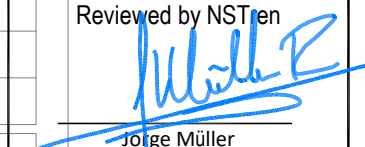
HW SET: 24				
LOCATION OF OPENING:	SINGLE DOOR D12 NO. OF DOORS: 4			
ROOM NO.	106 EMERGENCY GENERATOR RM 318 FACILITY MANAGEMENT DIVISION MALE LOCKER RM 319 FACILITY MANAGEMENT LOUNGE 415 OCC RM			
HANDING:	LEFT HAND (LH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:				
1000	x 2100 x 44mm			
ST	DR x ST FR			
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
16	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
4	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A	630
			ENTRY/OFFICE LOCK; 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	A
4	SETS	MISCELLANEOUS ITEMS	THRESHOLDS & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET: 25				
LOCATION OF OPENING:	SINGLE DOOR D12 NO. OF DOORS: 10			
ROOM NO.	210 CREW MANAGEMENT CLERK RM 211 CREW MANAGEMENT DIVISION MANAGER RM 314 FACILITY MANAGEMENT DIVISION CLERK RM 315 FACILITY MANAGEMENT DIVISION MANAGER RM 317 FACILITY MANAGEMENT DIVISION FEMALE LOCKER RM 330 ELECTRIC MANAGEMENT DIVISION LOUNGE 334 ELECTRIC MANAGEMENT DIVISION MANAGER RM 335 ELECTRIC MANAGEMENT DIVISION CLERK RM 412 OCC CLERK RM 413 OCC DIVISION MANAGER RM			
HANDING:	RIGHT HAND (RH) (SWING IN)			
DIMENSIONS & DOOR/FRAME TYPE:				
1000	x 2100 x 44mm			
ST	DR x ST FR			
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
40	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
10	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A	630
			ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
10	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
10	SETS	MISCELLANEOUS ITEMS	THRESHOLDS & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

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


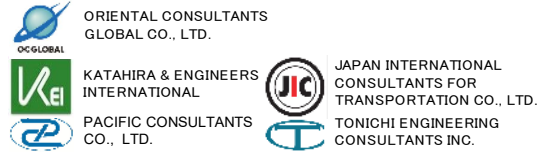
NOTES:	
NON-HANDED - THE HARDWARE CAN BE APPLIED FOR EITHER A RIGHT-HAND OR LEFT-HAND SWING.	
DOGGING MECHANISM - MECHANISM THAT HOLDS THE LATCH BOLT HEAD(S) IN THE WITHDRAWN POSITION, TO PERMIT FREE PASSAGE THROUGH THE DOOR, UNTIL MANUALLY OR ELECTRONICALLY RELEASED WHEN THE DOOR IS SECURED; FOR ESCAPE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

Reviewed by NSTren

 Jorge Müller
 Project Director

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

Last modified by POLICARPIO-C7 / 05 Jul 2018
 Filename: X:\Users\ACAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01B08 OF 11\01 DWG\NSCR-DWG-OCC-AR-3377_R1

<table border="1"> <tr> <th>VER</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>01</td> <td>25 OCT 2017</td> <td>FINAL REVISION OF JICA DESIGN TEAM</td> </tr> </table>		VER	DATE	DESCRIPTION	01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM			DESIGN CONSULTANT JICA DETAILED DESIGN STUDY TEAM 			THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN) DETAILED DESIGN VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 7		DATE: OCTOBER 2017 SCALE: AS SHOWN @ A1 SHEET No. DRG No. NSCR-DWG-OCC-AR-3377 DRG S. REV 01	
VER	DATE	DESCRIPTION														
01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM														

HW SET:		26	
LOCATION OF OPENING:		SINGLE DOOR D12	NO. OF DOORS: 4
ROOM NO.	215	2F FEMALE LOCKER RM	
	324	3F FEMALE LOCKER RM	
	420	OCC FEMALE LOCKER RM	
	423	OCC MALE LOCKER RM	
HANDING:		RH INWARD OPENING	
DIMENSIONS & DOOR/FRAME TYPE:		1000	x 2100
	ST	DR	x ST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
12	PCS	DOOR HINGE	5" X 4 1/2" BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
4	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A
			ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION
4	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
4	SET	MISCELLANEOUS ITEMS	OPTIONAL VERTICAL PULL HANDLE, THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		27	
LOCATION OF OPENING:		SINGLE DOOR D12 (WITH ELECTRICAL CARD KEY ACCESS DOOR)	NO. OF DOORS: 1
ROOM NO.	109	CLINIC	
HANDING:		RIGHT HAND REVERSE (RHR) (SWING OUT)	
DIMENSIONS & DOOR/FRAME TYPE:		1000	x 2100
	ST	DR	x ST FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
1	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A
			ENTRY/OFFICE LOCK; GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION
1	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
1	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		28	
LOCATION OF OPENING:		SINGLE DOOR D12 (WITH ELECTRICAL CARD KEY ACCESS DOOR)	NO. OF DOORS: 1
ROOM NO.	226	LEFT HAND (LH) (SWING IN)	
HANDING:		RH INWARD OPENING	
DIMENSIONS & DOOR/FRAME TYPE:		1000	x 2100
	ST	DR	x ST FR
QTY.	UNIT	ITEM TYPE	FINISH 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 FUNCTION CODE: F86
			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
1	SET	MISCELLANEOUS ITEMS	THRESHOLDS, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

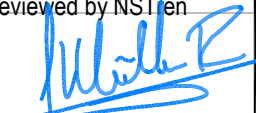
LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME MATERIAL:	
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
FG	FULL GLASS
FRML	FRAMELESS
HARDWARE FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
673	ALUMINUM, CLEAR COATED
689	ALUMINUM PAINTED
A	STEEL BASE METAL
C	STAINLESS STEEL BASE METAL

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

QTY.	UNIT	ITEM TYPE	FINISH 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 FUNCTION CODE: F82A
			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
1	SET	MISCELLANEOUS ITEMS	THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

 Jorge Müller
 Project Director

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

Last modified by POLICARPIO-C7 / 05 Jul 2018
 Filename: X:\Users\ACAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01B08 OF 11\01_DWG\NSCR-DWG-OCC-AR-3378_R1

<table border="1"> <tr> <th>VER</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>01</td> <td>25 OCT 2017</td> <td>FINAL REVISION OF JICA DESIGN TEAM</td> </tr> </table>	VER	DATE	DESCRIPTION	01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM		<p align="center">DESIGN CONSULTANT</p> <p align="center">JICA DETAILED DESIGN STUDY TEAM</p> <table border="1"> <tr> <td>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</td> <td>KATAHIRA & ENGINEERS INTERNATIONAL</td> <td>JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.</td> </tr> <tr> <td>PACIFIC CONSULTANTS CO., LTD.</td> <td>TONICHI ENGINEERING CONSULTANTS INC.</td> <td></td> </tr> </table>	ORIENTAL CONSULTANTS GLOBAL CO., LTD.	KATAHIRA & ENGINEERS INTERNATIONAL	JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.	PACIFIC CONSULTANTS CO., LTD.	TONICHI ENGINEERING CONSULTANTS INC.		<table border="1"> <tr> <th>TITLE</th> <th>JDT</th> <th>SMEC</th> </tr> <tr> <td>DESIGNER</td> <td>KATO / UCHIDA</td> <td>A. ALLI</td> </tr> <tr> <td>CHECK</td> <td>K. SAKAMOTO</td> <td>N. HAMILTON</td> </tr> <tr> <td>TEAM LEADER</td> <td>N. MATSUMOTO</td> <td>J. BARNES</td> </tr> <tr> <td>PROJ. MANAGER</td> <td>M. MIYATA</td> <td>R. YUZON, JR.</td> </tr> </table>	TITLE	JDT	SMEC	DESIGNER	KATO / UCHIDA	A. ALLI	CHECK	K. SAKAMOTO	N. HAMILTON	TEAM LEADER	N. MATSUMOTO	J. BARNES	PROJ. MANAGER	M. MIYATA	R. YUZON, JR.	<p align="center">THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)</p> <p align="center">DETAILED DESIGN</p> <p align="center">VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 8</p>	<table border="1"> <tr> <td>DATE</td> <td>OCTOBER 2017</td> </tr> <tr> <td>SCALE</td> <td>AS SHOWN @ A1</td> </tr> <tr> <td>SHEET No.</td> <td></td> </tr> <tr> <td>DRG No.</td> <td>NSCR-DWG-OCC-AR-3378</td> </tr> <tr> <td>DRG S.</td> <td>REV 01</td> </tr> </table>	DATE	OCTOBER 2017	SCALE	AS SHOWN @ A1	SHEET No.		DRG No.	NSCR-DWG-OCC-AR-3378	DRG S.	REV 01
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HW SET:		30	
LOCATION OF OPENING:		SINGLE DOOR D12	NO. OF DOORS: 2
ROOM NO.	320	PANTRY 2	
	309	PANTRY 3	
HANDING:	RIGHT HAND (RH) (SWING IN)		
DIMENSIONS & DOOR/FRAME TYPE:		1000	x
		2100	x
		44mm	
QTY.	UNIT	ITEM TYPE	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: F82A
			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
2	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			×OR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		31	
LOCATION OF OPENING:		SINGLE DOOR D12	NO. OF DOORS: 4
ROOM NO.	215	2F FEMALE LOCKER RM	
	324	3F FEMALE LOCKER RM	
	420	OCC FEMALE LOCKER RM	
	423	OCC MALE LOCKER RM	
HANDING:	LEFT HAND (LH) (SWING IN)		
DIMENSIONS & DOOR/FRAME TYPE:		1000	x
		2100	x
		44mm	
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
16	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
4	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A
			ENTRY/OFFICE LOCK; 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
4	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			×OR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		32	
LOCATION OF OPENING:		SINGLE DOOR D12	NO. OF DOORS: 2
ROOM NO.	219	2F MALE LOCKER RM	
	327	3F MALE LOCKER RM	
HANDING:	RIGHT HAND (RH) (SWING IN)		
DIMENSIONS & DOOR/FRAME TYPE:		1000	x
		2100	x
		44mm	
QTY.	UNIT	ITEM TYPE	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: F82A
			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
2	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			×OR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME MATERIAL:	
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
FG	FULL GLASS
FRML	FRAMELESS
HARDWARE FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
673	ALUMINUM, CLEAR COATED
689	ALUMINUM PAINTED
A	STEEL BASE METAL
C	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	
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.	
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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 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	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:		33	
LOCATION OF OPENING:		SINGLE DOOR D21 (WITH ELECTRICAL CARD KEY ACCESS DOOR)	NO. OF DOORS: 1
ROOM NO.	132	STORE	
HANDING:	RH INWARD OPENING		
DIMENSIONS & DOOR/FRAME TYPE:		800	x
		2100	x
		44mm	
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
3	PCS	DOOR HINGE	4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F86
			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
1	SET	MISCELLANEOUS ITEMS	ACCESS CARD/ SECURITY, THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			×OR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren
[Signature]
Jorge Müller
Project Director

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

Last modified by POLICARPIO-C7 / 05 Jul 2018
Filename: X:\Users\ACAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01B08 OF 11\01 DWG\NSCR-DWG-OCC-AR-3379_R1

VER	DATE	DESCRIPTION		DESIGN CONSULTANT JICA DETAILED DESIGN STUDY TEAM 	TITLE: JDT, SMEC DESIGNER: KATO / UCHIDA, A. ALLI CHECK: K. SAKAMOTO, N. HAMILTON TEAM LEADER: N. MATSUMOTO, J. BARNES PROJ. MANAGER: M. MIYATA, R. YUZON, JR.	THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN) DETAILED DESIGN VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 9	DATE	OCTOBER 2017	
01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM					SCALE	AS SHOWN @ A1	SHEET No.
							DRG S.	REV	01

HW SET:		34	
LOCATION OF OPENING:		SINGLE DOOR D21 (WITH ELECTRICAL CARD KEY ACCESS DOOR)	NO. OF DOORS: 1
		ROOM NO. 130	LOCKER
		HANDING: LEFT HAND (LH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		800 x 2100	x 44mm
		ST DR x ST FR	
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
3	PCS	DOOR HINGE	4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F82A
			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
1	SET	MISCELLANEOUS ITEMS	ACCESS CARD/ SECURITY, THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		35	
LOCATION OF OPENING:		SINGLE DOOR D22	NO. OF DOORS: 1
		ROOM NO. 513	DUCT SPACE 1
		HANDING: LEFT HAND (LH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		700 x 2100	x 44mm
		ST DR x ST FR	
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
3	PCS	DOOR HINGE	4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95
			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
1	SET	MISCELLANEOUS ITEMS	THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		36	
LOCATION OF OPENING:		SINGLE DOOR D22	NO. OF DOORS: 1
		ROOM NO. 512	DUCT SPACE 2
		HANDING: RIGHT HAND (RH) (SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		700 x 2100	x 44mm
		ST DR x ST FR	
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
3	PCS	DOOR HINGE	4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
1	SET	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F95
			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
1	SET	MISCELLANEOUS ITEMS	THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren
Jorge Müller
Jorge 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
FG	FULL GLASS
FRML	FRAMELESS
HARDWARE FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
673	ALUMINUM, CLEAR COATED
689	ALUMINUM PAINTED
A	STEEL BASE METAL
C	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	
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 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	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:		37	
LOCATION OF OPENING:		DOUBLE DOOR D23	NO. OF DOORS: 3
		ROOM NO. 209	STOCK ROOM
		336	STOCK RM
		411	STOCK RM
		HANDING: RIGHT HAND (RH) ACTIVE (PAIR SWING IN)	
DIMENSIONS & DOOR/FRAME TYPE:		1600 x 2100	x 44mm
		ST DR x ST FR	
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
24	PCS	DOOR HINGE	5" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION
3	SETS	CYLINDRICAL LEVER LOCKSET	LOCK FUNCTION CODE: F86
			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)
0			HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE
0			PLATE: 75mmW x 300mmH x 2mmT
3	SETS	MISCELLANEOUS ITEMS	FLUSHED TYPE FOOTBOLTS/ FLUSHBOLTS, THRESHOLDS, PEST PROOFING, ASTRAGAL & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

Last modified by POLICARPIO-C7 / 05 Jul 2018
Filename: X:\Users\ACAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01B08 OF 11\01 DWG\NSCR-DWG-OCC-AR-3380_R1

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HW SET:		38				
LOCATION OF OPENING:		DOUBLE EGRESS DOOR D8 (WITH ELECTRICAL CARD KEY ACCESS DOOR)		NO. OF DOORS: 1		
ROOM NO.		108		KITCHEN		
HANDING:		LEFT HAND (LH) (SWING IN)				
DIMENSIONS & DOOR/FRAME TYPE:		2000	x	2100	x	44mm
		ST	DR	x	ST	FR
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS			FINISH SPECIFICATIONS
4	PCS	DOOR HINGE	4 1/2" 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: F82A		630	
			ENTRY/OFFICE LOCK (ON ACTIVE DOOR SIDE); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION			
2	SETS	KICK PLATES (OPTIONAL)	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (OPPOSITE DOOR)			630
0			HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE			
0			PLATE: 75mmW x 300mmH x 2mmT			
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			A
1	SET	MISCELLANEOUS ITEMS	THRESHOLDS, PEST PROOFING, KICK PLATES, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A
						xOR PER MANUFACTURER'S SPECIFICATIONS

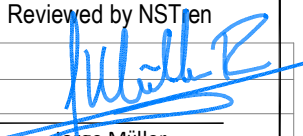
HW SET:		40				
LOCATION OF OPENING:		SINGLE DOOR D14 (LOUVER)		NO. OF DOORS: 16		
ROOM NO.		100-A		STAIR 1-GF		
		110		EPS-2		
		124		EPS-5		
		127		PS-6		
		203		EPS-5		
		206		PS-6		
		230		EPS-2		
		303		EPS-5		
		306		PS-6		
		321		EPS-2		
		403		EPS-5		
		406		PS-6		
		426		EPS-2		
		503		EPS-5		
		506		PS-6		
		518		EPS-2		
HANDING:		RIGHT HAND (RH) (SWING IN)				
DIMENSIONS & DOOR/FRAME TYPE:		600	x	2100	x	44mm
		ST	DR	x	ST	FR
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS			FINISH SPECIFICATIONS
48	PCS	DOOR HINGE	4 1/2" X 4 1/2" BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION			A
16	SETS	MORTISE DEADLOCK	LOCK FUNCTION CODE: E2161		630	
			MORTISE DEADLOCK/ DEADBOLT LOCK (KEYED OUTSIDE ONLY); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION			
16	SETS	VERTICAL PULL HANDLE	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)			630
0			HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE			
0			PLATE: 75mmW x 300mmH x 2mmT			
16	SETS	PUSH PLATES	300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE)			630
16	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
16	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A
						xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME MATERIAL:	
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
FG	FULL GLASS
FRML	FRAMELESS
HARDWARE FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
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NOTES:	
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POSITIVE LATCHING - ACTIVE LATCHBOLT TO PREVENT PRESSURE CAUSED BY FIRE FROM PUSHING THE DOOR OPEN	
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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:		39				
LOCATION OF OPENING:		SINGLE DOOR D24		NO. OF DOORS: 2		
ROOM NO.		PIT A		PIT B		
HANDING:		LEFT HAND (LH) (SWING IN)				
DIMENSIONS & DOOR/FRAME TYPE:		900	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 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION			A
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
2	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION			A
						xOR PER MANUFACTURER'S SPECIFICATIONS

Reviewed by NSTren

 Jorge Müller
 Project Director

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

Last modified by POLICARPIO-C7 / 05 Jul 2018
 Filename: X:\Users\CAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01B08 OF 11\01 DWG\NSCR-DWG-OCC-AR-3381_R1

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HW SET:		41				
LOCATION OF OPENING:		SINGLE DOOR D14 (LOUVER)		NO. OF DOORS: 11		
ROOM NO.	100-B	STAIR 2-GF				
	111	EPS-1				
	129	EPS-6				
	208	EPS-6				
	231	EPS-1				
	308	EPS-6				
	322	EPS-1				
	408	EPS-6				
	427	EPS-1				
	508	EPS-6				
	517	EPS-1				
HANDING:		LEFT HAND (LH) (SWING IN)				
DIMENSIONS & DOOR/FRAME TYPE:		600	x	2100	x	44mm
		ST	DR	x	ST	FR

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
33	PCS	DOOR HINGE	4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
11	SETS	MORTISE DEADLOCK	LOCK FUNCTION CODE: E2161	630
			MORTISE DEADLOCK/ DEADBOLT LOCK (KEYED OUTSIDE ONLY); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
11	SETS	VERTICAL PULL HANDLE	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)	630
			HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE	
			PLATE: 75mmW x 300mmH x 2mmT	
11	SETS	PUSH PLATES	300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE)	630
11	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
11	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		42				
LOCATION OF OPENING:		SINGLE DOOR D14 (LOUVER)		NO. OF DOORS: 7		
ROOM NO.	117	EPS-3				
	120	EPS-4				
	213	EPS-4				
	216	EPS-3				
	331	EPS-3				
	333	EPS-4				
	416	EPS-4				
HANDING:		LEFT HAND REVERSE (LHR) (SWING OUT)				
DIMENSIONS & DOOR/FRAME TYPE:		600	x	2100	x	44mm
		ST	DR	x	ST	FR

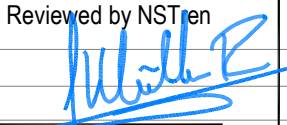
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
21	PCS	DOOR HINGE	4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
7	SETS	MORTISE DEADLOCK	LOCK FUNCTION CODE: E2161	630
			MORTISE DEADLOCK/ DEADBOLT LOCK (KEYED OUTSIDE ONLY); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
7	SETS	VERTICAL PULL HANDLE	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)	630
			HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE	
			PLATE: 75mmW x 300mmH x 2mmT	
7	SETS	PUSH PLATES	300mm X 100mm PUSH DOOR PROTECTOR FINGER PLATE W/ SCREWS (PUSH SIDE)	630
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
7	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

LEGEND:	
DR	DOOR
FR	FRAME
DOOR/ FRAME MATERIAL:	
ST	STEEL TYPE
SST	STAINLESS STEEL TYPE
FG	FULL GLASS
FRML	FRAMELESS
HARDWARE FINISH CODE:	
630	STAINLESS STEEL METAL, SATIN
673	ALUMINUM, CLEAR COATED
689	ALUMINUM PAINTED
A	STEEL BASE METAL
C	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	
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 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	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:		43				
LOCATION OF OPENING:		SINGLE DOOR D14 (LOUVER)		NO. OF DOORS: 2		
ROOM NO.		PS-1 (GROUND FLOOR)				
	417	EPS-3				
HANDING:		RIGHT HAND REVERSE (RHR) (SWING OUT)				
DIMENSIONS & DOOR/FRAME TYPE:		600	x	2100	x	44mm
		ST	DR	x	ST	FR

Reviewed by NSTren

 Jorge Müller
 Project Director

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

QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
6	PCS	DOOR HINGE	4 1/2" X 4 1/2" LOOSE-PIN BUTT HINGE, STEEL, BALL BEARING, GRADE 1; PER MANUFACTURER'S RECOMMENDATION	A
2	SETS	MORTISE DEADLOCK	LOCK FUNCTION CODE: E2161	630
			MORTISE DEADLOCK/ DEADBOLT LOCK (KEYED OUTSIDE ONLY); GRADE 1, UL-LISTED, 3 HOURS FIRE RATING; PER MANUFACTURER'S RECOMMENDATION	
2	SETS	VERTICAL PULL HANDLE	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX (PULL SIDE)	630
			HANDLE: 150mmL x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE	
			PLATE: 75mmW x 300mmH x 2mmT	
2	SETS	PUSH PLATES	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	A
2	SETS	MISCELLANEOUS ITEMS	THRESHOLDS, ASTRAGAL, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S SPECIFICATIONS

<table border="1"> <tr> <th>VER</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>01</td> <td>25 OCT 2017</td> <td>FINAL REVISION OF JICA DESIGN TEAM</td> </tr> </table>	VER	DATE	DESCRIPTION	01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM		<p align="center">DESIGN CONSULTANT</p> <p align="center">JICA DETAILED DESIGN STUDY TEAM</p> <table border="1"> <tr> <td>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</td> <td>KATAHIRA & ENGINEERS INTERNATIONAL</td> <td>JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.</td> </tr> <tr> <td>PACIFIC CONSULTANTS CO., LTD.</td> <td>TONICHI ENGINEERING CONSULTANTS INC.</td> <td></td> </tr> </table>	ORIENTAL CONSULTANTS GLOBAL CO., LTD.	KATAHIRA & ENGINEERS INTERNATIONAL	JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.	PACIFIC CONSULTANTS CO., LTD.	TONICHI ENGINEERING CONSULTANTS INC.		<table border="1"> <tr> <th>TITLE</th> <th>JDT</th> <th>SMEC</th> </tr> <tr> <td>DESIGNER</td> <td>KATO / UCHIDA</td> <td>A. ALLI</td> </tr> <tr> <td>CHECK</td> <td>K. SAKAMOTO</td> <td>N. HAMILTON</td> </tr> <tr> <td>TEAM LEADER</td> <td>N. MATSUMOTO</td> <td>J. BARNES</td> </tr> <tr> <td>PROJ. MANAGER</td> <td>M. MIYATA</td> <td>R. YUZON, JR.</td> </tr> </table>	TITLE	JDT	SMEC	DESIGNER	KATO / UCHIDA	A. ALLI	CHECK	K. SAKAMOTO	N. HAMILTON	TEAM LEADER	N. MATSUMOTO	J. BARNES	PROJ. MANAGER	M. MIYATA	R. YUZON, JR.	<p align="center">THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)</p> <p align="center">DETAILED DESIGN</p> <p align="center">VALENZUELA DEPOT-OCC BUILDING ARCHITECTURAL - SCHEDULE OF HARDWARE SHEET 12</p>	<table border="1"> <tr> <td>DATE</td> <td>OCTOBER 2017</td> </tr> <tr> <td>SCALE</td> <td>AS SHOWN @ A1</td> </tr> <tr> <td>SHEET No.</td> <td></td> </tr> <tr> <td>DRG No.</td> <td>NSCR-DWG-0CC-AR-3382</td> </tr> <tr> <td>DRG S.</td> <td>REV 01</td> </tr> </table>	DATE	OCTOBER 2017	SCALE	AS SHOWN @ A1	SHEET No.		DRG No.	NSCR-DWG-0CC-AR-3382	DRG S.	REV 01
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HW SET:		44	
LOCATION OF OPENING:		SINGLE SLIDING DOOR D15	NO. OF DOORS: 3
ROOM NO.	221	2F MALE SHOWER RM	
	329	3F MALE SHOWER RM	
	425	4F MALE SHOWER RM	
HANDING:		LEFT HAND SLIDING DOOR	
DIMENSIONS & DOOR/FRAME TYPE:		900	x 2100 x 44mm
	ST	DR	FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
3	SETS	DOOR TRACK SYSTEM & ASSEMBLY	TOP HUNG SLIDING DOOR TRACK SYSTEM; ROUND RAIL TRACK, SIDEWALL MOUNTED; METAL ROUND RAIL DOOR HANGERS (1 PAIR PER SET), BALL BEARING; PER MANUFACTURER'S DESIGN & SPECIFICATIONS
3	SETS	DOOR GUIDE	METAL BOTTOM / FLOOR MOUNTED GUIDE; PER MANUFACTURER'S DESIGN & SPECIFICATIONS
3	SETS	SUPPORT BRACKETS & ASSEMBLY	RAIL BRACKET AT 500 MM - 600 MM ON CENTER SPACING, OR PER MANUFACTURER'S DESIGN & SPECIFICATIONS
3	SETS	TOP HUNG TRACK COVER/ RAIL FLASHING	PER MANUFACTURER'S DESIGN & SPECIFICATIONS
6	SETS	DOOR PULL / VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX
			HANDLE: 425mm x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE
3	SETS	MISCELLANEOUS ITEMS	END STOP, BUMPER SHOES, DOOR BUMPERS, BOLTS, FASTENERS, ASTRAGALS, STAY ROLLERS, JAMB LATCHES, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			✗OR PER MANUFACTURER'S SPECIFICATIONS

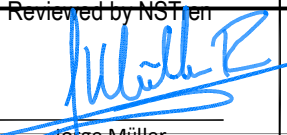
HW SET:		45	
LOCATION OF OPENING:		SINGLE SLIDING DOOR D15	NO. OF DOORS: 3
ROOM NO.	218	2F FEMALE SHOWER RM	
	326	3F FEMALE SHOWER RM	
	422	4F FEMALE SHOWER RM	
HANDING:		RIGHT HAND SLIDING DOOR	
DIMENSIONS & DOOR/FRAME TYPE:		900	x 2100 x 44mm
	ST	DR	FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
3	SETS	DOOR TRACK SYSTEM & ASSEMBLY	TOP HUNG SLIDING DOOR TRACK SYSTEM; ROUND RAIL TRACK, SIDEWALL MOUNTED; METAL ROUND RAIL DOOR HANGERS (1 PAIR PER SET), BALL BEARING; PER MANUFACTURER'S DESIGN & SPECIFICATIONS
3	SETS	DOOR GUIDE	METAL BOTTOM / FLOOR MOUNTED GUIDE; PER MANUFACTURER'S DESIGN & SPECIFICATIONS
3	SETS	SUPPORT BRACKETS & ASSEMBLY	RAIL BRACKET AT 500 MM - 600 MM ON CENTER SPACING, OR PER MANUFACTURER'S DESIGN & SPECIFICATIONS
3	SETS	DOOR PULL	METAL PULL HANDLE; PER MANUFACTURER'S DESIGN & SPECIFICATIONS
6	SETS	DOOR PULL / VERTICAL PULL HANDLE (BOTH SIDES)	STAINLESS STEEL DOOR PULL HANDLE WITH PLATE; SURFACE MOUNT VISIBLE FIX
0			HANDLE: 425mm x 16mm DIAMETER x 48mm STANDOFF, 32mm CLEARANCE
3	SETS	MISCELLANEOUS ITEMS	END STOP, BUMPER SHOES, DOOR BUMPERS, BOLTS, FASTENERS, ASTRAGALS, STAY ROLLERS, JAMB LATCHES, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			✗OR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		46	
LOCATION OF OPENING:		MOVABLE PARTITION WALL D16	NO. OF DOORS: 2
ROOM NO.	312	CONFERENCE RM-2	
	313	CONFERENCE RM-3	
HANDING:		RIGHT HAND FOLD	
DIMENSIONS & DOOR/FRAME TYPE:		5150	x 2700 x 80mm (PER MANUFACTURER'S SPECIFICATIONS)
	ALUM	DR	FR
QTY.	UNIT	ITEM TYPE	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
2	SETS	PANELS	ACOUSTIC PANELS (WITHOUT PASS DOOR), INCLUDING COVER PLATE, ACOUSTIC DOOR, AND SURFACE FINISH; PER MANUFACTURER'S DESIGN & SPECIFICATIONS
2	SETS	PULL / HANDLE	FLUSH PULL (BOTH SIDES); PER MANUFACTURER'S DESIGN & SPECIFICATIONS
2	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
			✗OR PER MANUFACTURER'S SPECIFICATIONS

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

 Jorge Müller
 Project Director

HW SET:		47	
LOCATION OF OPENING:		MOVABLE PARTITION WALL D17	NO. OF DOORS: 2
ROOM NO.	312	CONFERENCE RM-2	
	313	CONFERENCE RM-3	
HANDING:		LEFT HAND FOLD	
DIMENSIONS & DOOR/FRAME TYPE:		2150	x 2700 x 80mm (PER MANUFACTURER'S SPECIFICATIONS)
	ALUM	DR	FR
QTY.	UNIT	ITEM TYPE	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
2	SETS	PANELS	ACOUSTIC PANELS (WITHOUT PASS DOOR), INCLUDING COVER PLATE, ACOUSTIC DOOR, AND SURFACE FINISH; PER MANUFACTURER'S DESIGN & SPECIFICATIONS
2	SETS	PULL / HANDLE	FLUSH PULL (BOTH SIDES); PER MANUFACTURER'S DESIGN & SPECIFICATIONS
2	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
			✗OR PER MANUFACTURER'S SPECIFICATIONS

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



DESIGN CONSULTANT		
JICA DETAILED DESIGN STUDY TEAM		
ORIENTAL CONSULTANTS GLOBAL CO., LTD.	KATAHIRA & ENGINEERS INTERNATIONAL	JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.
PACIFIC CONSULTANTS CO., LTD.	TONICHI ENGINEERING CONSULTANTS INC.	
TITLE	JDT	SMEC
DESIGNER	KATO / UCHIDA	A. ALLI
CHECK	K. SAKAMOTO	N. HAMILTON
TEAM LEADER	N. MATSUMOTO	J. BARNES
PROJ. MANAGER	M. MIYATA	R. YUZON, JR.

THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)	
DATE	OCTOBER 2017
SCALE	AS SHOWN @ A1
SHEET No.	
DRG No.	NSCR-DWG-OCC-AR-3383
DRG S.	REV
	01

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

HW SET:		48	
LOCATION OF OPENING:		MOVABLE PARTITION WALL D19	NO. OF DOORS: 1
ROOM NO.		410	TRAINING RM
HANDING:		NON-HANDED	
DIMENSIONS & DOOR/FRAME TYPE:		5050	x 4000
		ALUM	DR x ALUM FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
1	SET	PARTITION SYSTEM, TRACK & TROLLEY ASSEMBLY	TOP HUNG SLIDING BI-FOLDING PARTITION SYSTEM, END FOLD LAYOUT (EACH SIDE), 90-DEGREE STACKING CONFIGURATION; PER MANUFACTURER'S DESIGN & SPECIFICATIONS
1	SET	PANELS	ACOUSTIC PANELS (WITHOUT PASS DOOR), INCLUDING COVER PLATE, ACOUSTIC DOOR, AND SURFACE FINISH; PER MANUFACTURER'S DESIGN & SPECIFICATIONS
2	SETS	PULL / HANDLE	FLUSH PULL (BOTH SIDES); PER MANUFACTURER'S DESIGN & SPECIFICATIONS
1	SET	MISCELLANEOUS ITEMS	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, FRAME SEALOR, SOUND PROOFING MATERIAL, RETRACTABLE MECHANISM, PARTITION FRAME, SOUND-PROOFING MAGNETIC STRIP, & OTHER HARDWARE PER MANUFACTURER'S DESIGN & SPECIFICATIONS
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		49	
LOCATION OF OPENING:		DOUBLE GLASS DOOR D1 (WITH ELECTRICAL CARD KEY ACCESS DOOR)	NO. OF DOORS: 1
ROOM NO.		101-B	ENTRANCE LOBBY
HANDING:		DOUBLE ACTING DOOR	
DIMENSIONS & DOOR/FRAME TYPE:		2000	x 3000
		FG	DR x ALUM FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
2	SETS	DOUBLE ACTION SPRING HINGE	ALUMINUM HINGE, 2-4 SETS PER DOOR; PER MANUFACTURER'S RECOMMENDATION
2	SETS	FRAME DOOR / BOTTOM RAIL LOCK	ALUMINUM FLOOR LOCKING LOCK, KEYED; PER MANUFACTURER'S RECOMMENDATION
1	SET	DOUBLE LEAF FLOOR SPRING DOOR CLOSER & ASSEMBLY (PAIR)	ALUMINUM FLOOR SPRING DOOR CLOSER (CENTER HUNG, DOUBLE ACTION), INCLUDING TOP PIVOT, BOTTOM ARM, SPINDLE, COVER PLATE, AND CLOSER AND CEMENT CASE; OPTIONAL HOLD-OPEN FEATURE, WITH ADJUSTABLE CLOSING SPEED, LATCHING ACTION, BACKCHECK; PER MANUFACTURER'S RECOMMENDATION
4	SETS	PULL DOOR HANDLE (BOTH SIDES)	DOOR HANDLE, GLASS MOUNT; BAR STYLE; 2" DIA X 1200mm ALUMINUM HANDLE; PER MANUFACTURER'S RECOMMENDATION
1	SET	MISCELLANEOUS ITEMS	3MM SECURITY FILM, THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

HW SET:		50	
LOCATION OF OPENING:		DOUBLE GLASS DOOR D18	NO. OF DOORS: 1
ROOM NO.		429	VIEWING AREA (OUTSIDE)
HANDING:		DOUBLE ACTING DOOR	
DIMENSIONS & DOOR/FRAME TYPE:		1390	x 2235
		FG	DR x ALUM FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
2	SETS	DOUBLE ACTION SPRING HINGE	ALUMINUM HINGE, 2-4 SETS PER DOOR; PER MANUFACTURER'S RECOMMENDATION
2	SETS	FRAME DOOR / BOTTOM RAIL LOCK	ALUMINUM FLOOR LOCKING LOCK, KEYED; PER MANUFACTURER'S RECOMMENDATION
1	SET	DOUBLE LEAF FLOOR SPRING DOOR CLOSER & ASSEMBLY (PAIR)	ALUMINUM FLOOR SPRING DOOR CLOSER (CENTER HUNG, DOUBLE ACTION), INCLUDING TOP PIVOT, BOTTOM ARM, SPINDLE, COVER PLATE, AND CLOSER AND CEMENT CASE; OPTIONAL HOLD-OPEN FEATURE, WITH ADJUSTABLE CLOSING SPEED, LATCHING ACTION, BACKCHECK; PER MANUFACTURER'S RECOMMENDATION
4	SETS	PULL DOOR HANDLE (BOTH SIDES)	DOOR HANDLE, GLASS MOUNT; BAR STYLE; 2" DIA X 1200mm ALUMINUM HANDLE; PER MANUFACTURER'S RECOMMENDATION
1	SET	MISCELLANEOUS ITEMS	3MM SECURITY FILM, THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

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

 Jorge Müller
 Project Director

HW SET:		51	
LOCATION OF OPENING:		DOUBLE GLASS DOOR D20 (WITH ELECTRICAL CARD KEY ACCESS DOOR)	NO. OF DOORS: 1
ROOM NO.		107-A	CANTEEN-GF
HANDING:		DOUBLE ACTING DOOR	
DIMENSIONS & DOOR/FRAME TYPE:		2000	x 2400
		FG	DR x ALUM FR
QTY.	UNIT	ITEM TYPE	FINISH SPECIFICATIONS
2	SETS	DOUBLE ACTION SPRING HINGE	ALUMINUM HINGE, 2-4 SETS PER DOOR; PER MANUFACTURER'S RECOMMENDATION
2	SETS	FRAME DOOR / BOTTOM RAIL LOCK	ALUMINUM FLOOR LOCKING LOCK, KEYED; PER MANUFACTURER'S RECOMMENDATION
1	SET	DOUBLE LEAF FLOOR SPRING DOOR CLOSER & ASSEMBLY (PAIR)	ALUMINUM FLOOR SPRING DOOR CLOSER (CENTER HUNG, DOUBLE ACTION), INCLUDING TOP PIVOT, BOTTOM ARM, SPINDLE, COVER PLATE, AND CLOSER AND CEMENT CASE; OPTIONAL HOLD-OPEN FEATURE, WITH ADJUSTABLE CLOSING SPEED, LATCHING ACTION, BACKCHECK; PER MANUFACTURER'S RECOMMENDATION
4	SETS	PULL DOOR HANDLE (BOTH SIDES)	DOOR HANDLE, GLASS MOUNT; BAR STYLE; 2" DIA X 1200mm ALUMINUM HANDLE; PER MANUFACTURER'S RECOMMENDATION
1	SET	MISCELLANEOUS ITEMS	3MM SECURITY FILM, THRESHOLDS, ASTRAGAL, ACCESS CARD/ SECURITY & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION
			xOR PER MANUFACTURER'S SPECIFICATIONS

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

Last modified by POLICARPIO-C7 / 04 Jul 2018
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VER	DATE	DESCRIPTION
01	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM

DEPARTMENT OF TRANSPORTATION
 REPUBLIC OF THE PHILIPPINES

PHILIPPINE NATIONAL RAILWAYS

JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

DESIGN CONSULTANT

JICA DETAILED DESIGN STUDY TEAM

ORIENTAL CONSULTANTS GLOBAL CO., LTD.

KATAHIRA & ENGINEERS INTERNATIONAL

PACIFIC CONSULTANTS CO., LTD.

JAPAN INTERNATIONAL CONSULTANTS FOR TRANSPORTATION CO., LTD.

TONICHI ENGINEERING CONSULTANTS INC.

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

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

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

DATE	OCTOBER 2017
SCALE	AS SHOWN @ A1
SHEET No.	
DRG No.	NSCR-DWG-OCC-AR-3384
DRG S.	REV
	01

HW SET:		01		
LOCATION OF OPENING:		MOTORIZED ROLL-UP DOORS D1 AND D2	NO. OF DOORS: 15	
ROOM NO.		MAIN BUILDING ENTRANCE		
		FINAL ADJUSTMENT		
		UNSCHEDULED REPAIR SHOP		
		UNDER FLOOR CLEANING SHOP		
HANDING:		NON-HANDED		
DIMENSIONS & DOOR/FRAME TYPE:		VARIABLES	GA 18 (1.2mm)	
		SST DR x VARIES x SST FR		
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
15	SETS	DOOR CURTAIN	GA 18 C-TYPE STAINLESS STEEL PROFILE WITH VENTILATION HOLES ; PER MANUFACTURER'S DESIGN & SPECIFICATIONS	630
15	SETS	DOOR TRACKS & GUIDES	MANUALLY-OPERATED; PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
15	SETS	BRACKET PLATES & ASSEMBLY	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
15	SETS	SPRING COUNTERBALANCE	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
15	SETS	HOOD WEATHERSTRIP	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
15	SETS	HOOD BRUSH WEATHERSTRIP	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
15	SETS	BOTTOM WEATHERSTRIP	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
15	SETS	STORM SHIELD THRESHOLD	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
15	SETS	MISCELLANEOUS ITEMS	ELECTRIC MOTOR/OPERATOR, FAIL-SAFE DEVICE, 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	C
				xOR PER MANUFACTURER'S DESIGN AND SPECIFICATIONS

LEGEND:

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
C	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

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.

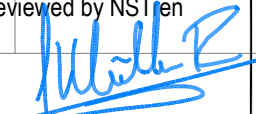
ANSI/BHMA FUNCTION CODES FOR CYLINDRICAL AND MORTISE LOCKSETS

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. AUXILIARY 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. AUXILIARY 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:		02		
LOCATION OF OPENING:		CHAIN BLOCK OPERATED ROLL-UP DOORS D3 AND D4	NO. OF DOORS: 3	
ROOM NO.		SUBSTATION HIGH VOLTAGE		
		BOILER ROOM		
		COMPRESSOR ROOM		
HANDING:		NON-HANDED		
DIMENSIONS & DOOR/FRAME TYPE:		VARIABLES	GA 18 (1.2mm)	
		SST DR x VARIES x SST FR		
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	C
3	SETS	BRACKET PLATES & ASSEMBLY	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
3	SETS	SPRING COUNTERBALANCE	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
3	SETS	HOOD WEATHERSTRIP	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
3	SETS	HOOD BRUSH WEATHERSTRIP	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
3	SETS	BOTTOM WEATHERSTRIP	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
3	SETS	STORM SHIELD THRESHOLD	PER MANUFACTURER'S DESIGN & SPECIFICATIONS	C
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	C
				xOR PER MANUFACTURER'S DESIGN AND SPECIFICATIONS

HW SET:		03		
LOCATION OF OPENING:		SINGLE DOOR D8 (EMERGENCY EXIT) TYPE A	NO. OF DOORS: 14	
ROOM NO.		MAIN BUILDING ENTRANCE		
		FINAL ADJUSTMENT SHOP		
		UNSCHEDULED REPAIR SHOP		
		EMERGENCY EXITS		
		UNDER FLOOR CLEANING		
HANDING:		RH OUTSWING		
DIMENSIONS & DOOR/FRAME TYPE:		1000	44mm	
		ST DR x 2100 x ST FR		
QTY.	UNIT	ITEM TYPE	DETAILED ITEM SPECIFICATIONS	FINISH SPECIFICATIONS
56	PCS	DOOR HINGE	FIRE RATED BALL BEARING HINGE; PER MANUFACTURER'S RECOMMENDATION	A
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	A
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	A
14	SETS	MISCELLANEOUS ITEMS	EXIT STOPPER DOOR ALARM, ASTRAGAL, THRESHOLDS, & OTHER HARDWARE PER MANUFACTURER'S RECOMMENDATION	A
				xOR PER MANUFACTURER'S DESIGN AND SPECIFICATIONS


Reviewed by NSTren



Jorge Müller
Project Director

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

Last modified by POLICARPIO-C7 / 05 Jul 2018
Filename: X:\Users\ACAD Shared\20180323_Submitted To Client\dt_20180427_FINAL DRAWINGS IN BID DOC\Revised Drawings\CP01B08 OF 11\01 DWG\NSCR-DWG-WS-AR-3371_R1

<table border="1"> <tr> <th>VER</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>02</td> <td>25 OCT 2017</td> <td>FINAL REVISION OF JICA DESIGN TEAM</td> </tr> </table>	VER	DATE	DESCRIPTION	02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM		<p align="center">DESIGN CONSULTANT</p> <p align="center">JICA DETAILED DESIGN STUDY TEAM</p> <table border="1"> <tr> <td>TITLE</td> <td>JDT</td> <td>SMEC</td> </tr> <tr> <td>DESIGNER</td> <td>KATO / UCHIDA</td> <td>A. ALLI</td> </tr> <tr> <td>CHECK</td> <td>K. SAKAMOTO</td> <td>N. HAMILTON</td> </tr> <tr> <td>TEAM LEADER</td> <td>N. MATSUMOTO</td> <td>J. BARNES</td> </tr> <tr> <td>PROJ. MANAGER</td> <td>M. MIYATA</td> <td>R. YUZON, JR.</td> </tr> </table>	TITLE	JDT	SMEC	DESIGNER	KATO / UCHIDA	A. ALLI	CHECK	K. SAKAMOTO	N. HAMILTON	TEAM LEADER	N. MATSUMOTO	J. BARNES	PROJ. MANAGER	M. MIYATA	R. YUZON, JR.	<p align="center">THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN)</p> <p align="center">DETAILED DESIGN</p> <p align="center">VALENZUELA DEPOT-WORKSHOP ARCHITECTURAL - SCHEDULE OF HARDWARES SHEET 1</p>	<table border="1"> <tr> <td>DATE</td> <td>OCTOBER 2017</td> </tr> <tr> <td>SCALE</td> <td>AS SHOWN @ A1</td> </tr> <tr> <td>SHEET No.</td> <td></td> </tr> <tr> <td>DRG No.</td> <td>NSCR-DWG-WS-AR-3371</td> </tr> <tr> <td>DRG S.</td> <td>REV 02</td> </tr> </table>	DATE	OCTOBER 2017	SCALE	AS SHOWN @ A1	SHEET No.		DRG No.	NSCR-DWG-WS-AR-3371	DRG S.	REV 02
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DESCRIPTION	APPLICATION / SUBSTRATE	APPLICATION PROCEDURE	THICKNESS	REMARKS	DESCRIPTION	APPLICATION / SUBSTRATE	APPLICATION PROCEDURE	THICKNESS	REMARKS
EXTERIOR SYSTEMS									
01 METAL, NON-FERROUS					04 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. ONE COAT OF LATEX PRIMER SEALER	GYPSUM BOARD WALLS	ROLLER OR BRUSH	1-1.5 MILS / COAT (PRIMER COAT)	
2. SEMI-GLOSS; TWO COATS OF ALKYD ENAMEL	EXTERIOR EXPOSED VALVES	BRUSH OR ROLLER	1-1.5 MILS / COAT (SECONDARY / TOP COATING)		2. EGGSHELL; TWO COATS OF LATEX ENAMEL	GYPSUM BOARD DRY LININGS	ROLLER OR BRUSH	1-1.5 MILS / COAT (SECONDARY / TOP COAT)	
	METER AND VALVE COVERS	BRUSH OR ROLLER			3. FLAT; TWO COATS OF LATEX ENAMEL	SOFFITS PLASTER & GYPSUM CEILINGS	ROLLER OR BRUSH ROLLER OR BRUSH		
02 METAL, FERROUS, PRIMED					05 WOOD				
LOW VOC, TWO COMPONENT FLOURINE AND POLY URETHANE COATING					OIL BASED STAIN, 3 COATS SYSTEM				
1. ALKYD TYPE PRIMER	HOLLOW METEL DOOR AND FRAMES	SPRAY	2-3 MILS (51-76 MICRONS) PRIMER COATING		1. BASE COAT- OIL WOOD STAIN	WOODEN DOOR FRAME	BRUSH OR ROLLER	1.5 MICRONS / COAT	
2. LOW VOC FLUORURETHANE FINISH, TWO COAT SYSTEM	STEEL LOUVERS	SPRAY	2-3 MILS (51-76 MICRONS) SECOND & TOP COATING		2. MID COAT; SANDING SEALER				
	STEEL ROOF	SPRAY OR ROLLER			3. TOP COAT; CLEAR GLOSS POLYURETHANE COATING				
	STEEL WALL SIDINGS	SPRAY OR ROLLER			06 FIREPROOFING				
03 CONCRETE / MASONRY					07 CONCRETE FLOORING				
SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM					WATERBASED SELF LEVELLING EPOXY, 2 COMPONENT				
1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT)	CONCRETE AND CONCRETE MASONRY UNITS EXPOSED TO VIEWS	BRUSH OR ROLLER	1-3 MILS (25-76MICRONS)		1. EPOXY PRIMER	CONCRETE FLOORING INDICATED IN THE PLANS AND SCHEDULE	ROLLER	3-5MM	
2. SEALER AND PIGMENTED ACRYLIC (TRANSLUCENT OR OPAQUE FINISH)					2. SELF-LEVELLING COMPOUND	EQUIPMENTS ROOMS CONCRETE FLOOR			
					3. BASE COLOR/ MARKINGS				
					4. CLEAR / TOP COATING				
INTERIOR SYSTEM					08 CONCRETE / MASONRY, ACID PRONE AREA				
01 METAL, FERROUS					SELF-PRIMING MODIFIED WATERBASED ACRYLIC SILOXANE, TWO-COAT SYSTEM				
1. TOUCH UP WITH ALKYD TYPE PRIMER	HANDRAILS	BRUSH OR ROLLER	1-1.5 MILS / COAT (PRIMER COATING)		1. SEALER AND PIGMENTED ACRYLIC (FIRST COAT)	CONCRETE AND CONCRETE MASONRY UNITS EXPOSED TO HIGH ACIDITY	BRUSH OR ROLLER	1-3 MILS (25-76MICRONS)	
	RAILINGS	BRUSH OR ROLLER	1-1.5 MILS / COAT (SECONDARY / TOP COATING)		2. SEALER AND PIGMENTED ACRYLIC (TRANSLUCENT OR OPAQUE FINISH)				
	STEEL STAIRS	BRUSH OR ROLLER			02 METAL, NON-FERROUS				
2. GLOSS; TWO COATS OF ALKYD ENAMEL	STEEL WALL SIDINGS	BRUSH OR ROLLER			LOW VOC, ALKYD RESIN TYPE, 3 COAT SYSTEM				
	STEEL GIRTS	BRUSH OR ROLLER			1. ONE COAT OF ALKYD TYPE PRIMER	B.I PIPES	BRUSH OR ROLLER	2-3 MILS (51-76 MICRONS) PRIMER COATING	
	STEEL MESH	BRUSH OR ROLLER			2. SEMI-GLOSS; TWO COATS OF ALKYD ENAMEL			2-3 MILS (51-76 MICRONS) SECOND & TOP COATING	
	GUARD POST	BRUSH OR ROLLER			03 CONCRETE / MASONRY				
02 METAL, NON-FERROUS					OPAQUE, LATEX, 3 COATS				
LOW VOC, ALKYD RESIN TYPE, 3 COAT SYSTEM					1. ONE COAT OF BLOCK FILLER	CONCRETE AND CONCRETE MASONRY UNITS EXPOSED TO VIEW	ROLLER OR BRUSH	1-1.5 MILS / COAT (PRIMER COATING)	
1. ONE COAT OF ALKYD TYPE PRIMER					2. SEMIGLOSS EGGSHELL; TWO COATS OF LATEX ENAMEL			1-1.5 MILS / COAT (SECONDARY / TOP COATING)	
2. SEMI-GLOSS; TWO COATS OF ALKYD ENAMEL					03 CONCRETE / MASONRY				

SCHEDULE OF PAINTS

NTS

Reviewed by NSTren
Jorge Müller
Jorge Müller
Project Director

NOTES

- AS PER MANUFACTURER'S STANDARD MATERIAL SPECIFICATIONS AND APPLICATION.

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

VER	DATE	DESCRIPTION				DESIGN CONSULTANT JICA DETAILED DESIGN STUDY TEAM 			THE DETAILED DESIGN STUDY OF THE NORTH-SOUTH COMMUTER RAILWAY PROJECT (MALOLOS-TUTUBAN) DETAILED DESIGN		DATE	OCTOBER 2017
02	25 OCT 2017	FINAL REVISION OF JICA DESIGN TEAM				TITLE	JDT	SMC			SCALE	AS SHOWN @ A1
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