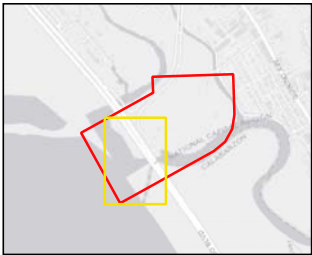




Feature Extraction

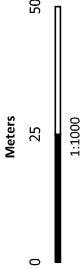
MAP INDEX



LEGEND

- Area of Interest
- 1m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retirement
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992
SURVEY DATE
AUGUST 2020



NOTES

I hereby certify that this is a correct plan of the above lands by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD	
REG. NO.	MAP
PRO. NO.	DATE OF ISSUE
SIGNATURE & STAMP OF ENGINEER	

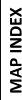
SURVEY TEAM	
CHIEF SURVEYOR	NAME
ADJUTANT	NAME
RECORDS	NAME
DATA	NAME
ANALYST	NAME

REVISION	
NO.	DATE
1	DATE
2	DATE
3	DATE
4	DATE
5	DATE
6	DATE
7	DATE
8	DATE
9	DATE
10	DATE

DESIGNER	
NO.	DATE
1	DATE
2	DATE
3	DATE
4	DATE
5	DATE
6	DATE
7	DATE
8	DATE
9	DATE
10	DATE

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway	
NO.	DATE
1	DATE
2	DATE
3	DATE
4	DATE
5	DATE
6	DATE
7	DATE
8	DATE
9	DATE
10	DATE

Survey Area 4 - Feature Extraction	
NO.	DATE
1	DATE
2	DATE
3	DATE
4	DATE
5	DATE
6	DATE
7	DATE
8	DATE
9	DATE
10	DATE



4

-
- Legend:
- Area of Interest (Red outline)
 - 1m Contour (Orange line)
 - Electric Post (Red circle)
 - Electric Tower (Red circle with cross)
 - Lamp Post (Purple circle)
 - Post (Black circle)
 - Telephone Post (Pink circle)
 - Tower (Pink circle with cross)
 - Road (Brown line)
 - River (Blue line)
 - Wall (Grey line)
 - Recreation (Green line)
 - Trees (Green rectangle)
 - Shrubs and Bushes (Light green rectangle)
 - Pond (Blue rectangle)
 - Mangrove (Yellow-green rectangle)
 - Grassland (Green rectangle)
 - Coastline (Blue rectangle)
 - Bare Land (Light blue rectangle)
 - Building (Black rectangle)

MAP PROJECTION

REFERENCE SYSTEM ZONE III
REFERENCE SYSTEM 1992

SURVEY DATE

AUGUST 2020

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NOTES

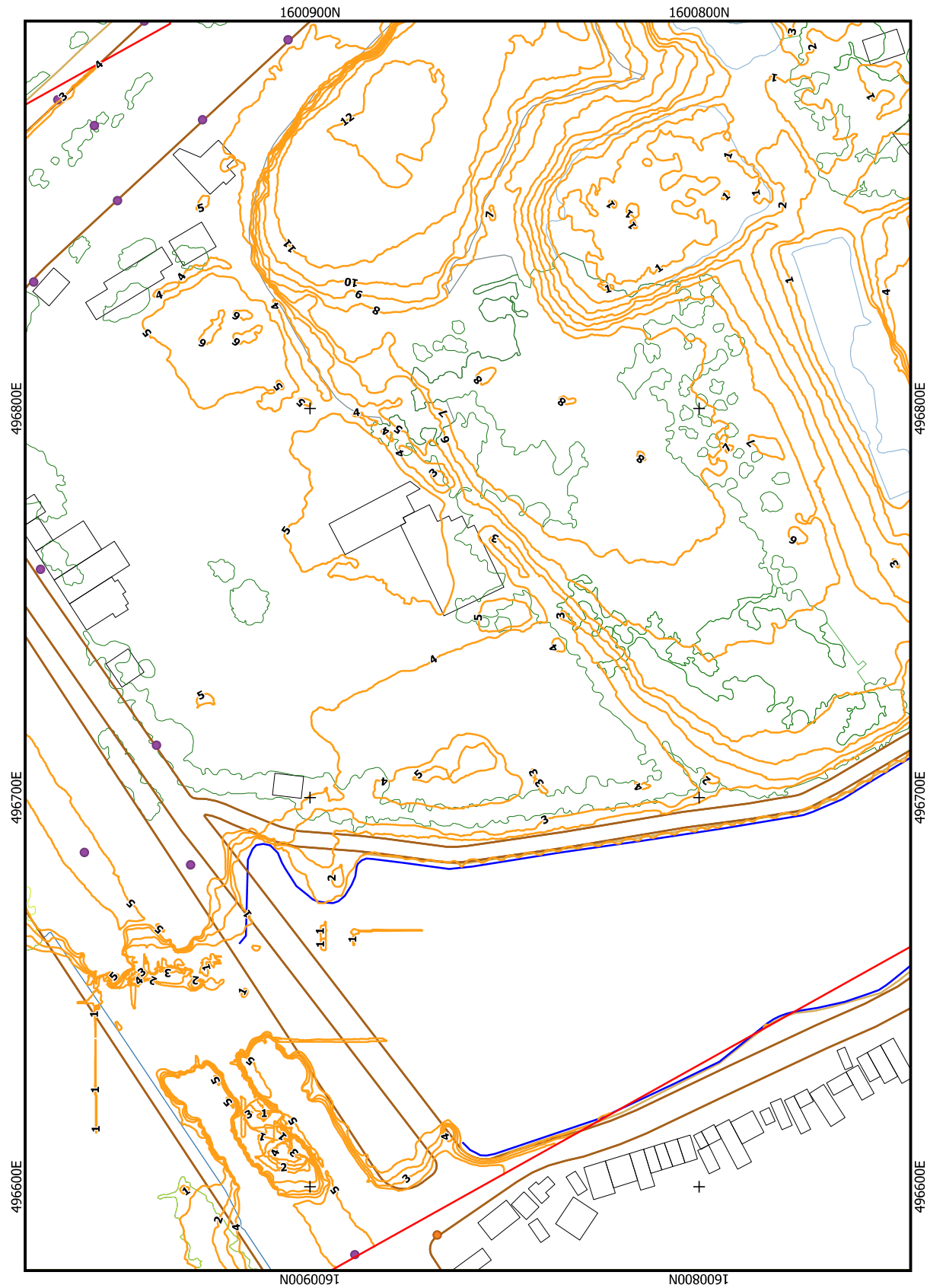
SURVEYOR



GHI Engineering Co., Ltd.



I hereby certify that this is a correct plan of the survey made by me personally, or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and rules and regulations of the Department of Environment and Natural Resources.

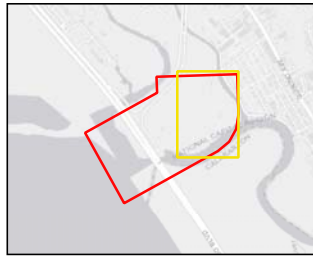


CLIENT	 CTI Engineering Co., Ltd.	SURVEYOR	 AERO 300 INTERNATIONAL	<i>I hereby certify that this is a correct plan of the survey made by me, personally or under my direct supervision in conformity with the instructions of the Department of Environment and Natural Resources.</i>	ENGINEER ON RECORD	PROJECT MANAGER DESIGNER			NAME	DATE	REVISION	DESIGNER	PROJECT MANAGER DESIGNER	SHEET NUMBER	PROJECT NAME PROJECT LOCATION PROJECT NO.
					PROJECT MANAGER DESIGNER	PROJECT MANAGER DESIGNER	PROJECT MANAGER DESIGNER	PROJECT MANAGER DESIGNER							



Feature Extraction

MAP INDEX



LEGEND

- Area of Interest
- 3m Contour
- Electric Post
- Electric Tower
- Lamp Post
- Post
- Telephone Post
- Tower
- Road
- River
- Wall
- Retirement
- Trees
- Shrubs and Bushes
- Pond
- Mangrove
- Grassland
- Coastline
- Bare Land
- Building

MAP PROJECTION

PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE

AUGUST 2020

Meters

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NOTES

CLIENT

SURVEYOR



I hereby certify that this is a correct plan of the above lands, but I do not personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.

SHEET NAME

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

Survey Area 4 - Feature Extraction

SHEET NUMBER

5/5

7.10.2. CONTOURS + ORTHOPHOTO



Orthomosaic

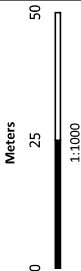
MAP INDEX



LEGEND

- Area of Interest
- 1m Contour

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992
SURVEY DATE
AUGUST 2020



NOTES

I hereby certify that this is a correct plan of the above lands, built up on personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD	
NAME	DATE
DESIGNER	DATE

SURVEY TEAM	
NAME	DATE
DESIGNER	DATE

REVISION	
NO.	DATE
1	2020

DESIGNER	
NAME	DATE
DESIGNER	DATE

**LIDAR Topographic Survey and Mapping
under Follow-up Study on Parañaque Spillway**

Survey Area 1 - Orthomosaic

01/18



MAP INDEX



LEGEND

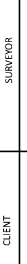
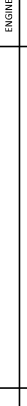
Area of Interest
1m Contour

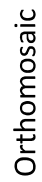
MAP PROJECTION

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE

NOTES

 CTI Engineering Co., Ltd.		<i>I hereby certify that this is a correct plan of the survey made by me, in accordance with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.</i>	ENGINEER ON RECORD		SURVEY TEAM		NAME		DATE		REVISION		DESIGNER		LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway	SHEET NAME: Survey Area 1 - Orthomosaic	SHEET NUMBER: 02/18
			PROJECT PROJECT NO. PROJECT TITLE DATE OF ISSUE MAP PLAN SECTION DATE OF ISSUE	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM	SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM SURVEY SURVEY NO. SURVEY TITLE SURVEY TEAM			
SHEET NO. 1 OF 1 SHEET NAME: 02/18																	



MAP INDEX



LEGEND

- Area of Interest
1m Contour

MAP PROJECTION

VIAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE

NOTES

CLIENT	 CTI Engineering Co., Ltd.
SURVEYOR	 AERO INTERNATIONAL

I hereby certify that this is a correct plan of the survey made by me personally, or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD		8849 - 05-19-11	
PAC NO:		DATE OF ISSUE:	
PTF NO:		PLACE OF ISSUE:	

SCOTT GERALD R. ILDEFORD
 GEOTECH ENGINEER

SURVEY TEAM				
PROJECT MANAGER	LIGNER OPERATOR	DRIVE PILOT	SURVEY TECH	DATA ANALYST

NAME	DATE

[illegible][illegible]

[illegible]

LiDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

Survey Area 1 - Orthomosaic

SHEET NUMBER: 03/18





MAP INDEX



LEGEND

- Area of Interest
1m Contour

MAP PROJECTION

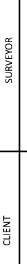
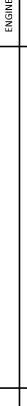
MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE

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NOTES

 CTI Engineering Co., Ltd.		<i>I hereby certify that this is a correct plan of the survey made by me, in accordance with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.</i>	ENGINEER ON RECORD		SURVEY TEAM		NAME		DATE		REVISION		DESIGNER		LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway	SHEET NAME
			PROJECT PROJECT NO. PROJECT TITLE DATE OF ISSUE	TEAM LEADER MEMBER 1 MEMBER 2 MEMBER 3 MEMBER 4	PROJECT NO. TITLE DATE OF ISSUE	NAME DATE	NO. DATE	NO. DATE	NO. DATE							
SHEET NO. 1 OF 1 DATE: 04/18/2024 PROJECT NO.: 001-2024																



Orthomosaic

MAP INDEX



LEGEND

Area of Interest

1m Contour

MAP PROJECTION

PHILIPPINE REFERENCE SYSTEM ZONE III

PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE

AUGUST 2020

Meters

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NOTES		SURVEYOR		CLIENT	
					
I hereby certify that this is a correct plan of the above lands by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.		ENGINEER ON RECORD NAME DATE DESIGNER DATE		SURVEY TEAM NAME DATE DESIGNER DATE	
504300E 504400E 504500E		504300N 504400N 504500N		Survey Area 1 - Orthomosaic 07/18	



Orthomosaic

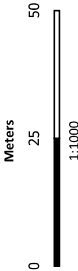
MAP INDEX



LEGEND

- Area of Interest
- 1m Contour

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992
SURVEY DATE
AUGUST 2020



NOTES

I hereby certify that this is a correct plan of the above lands, built-up area, as shown on the aerial photograph, and that the same are not subject to any legal dispute or under any direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD	
NAME	DATE
DESIGNER	DATE

SURVEY TEAM	
NAME	DATE
DESIGNER	DATE

REVISION	
NO.	DATE
1	2020-08-18

DESIGNER	
NAME	DATE
DESIGNER	DATE

LIDAR Topographic Survey and Mapping
under Follow-up Study on Parañaque Spillway

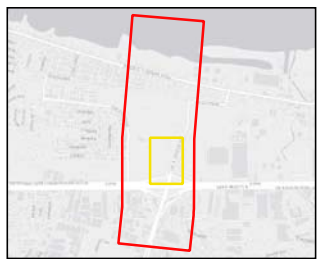
Survey Area 1 - Orthomosaic





Orthomosaic

MAP INDEX



LEGEND

Area of Interest

1m Contour

MAP PROJECTION

PHILIPPINE REFERENCE SYSTEM ZONE III

PHILIPPINE REFERENCE SYSTEM 1992

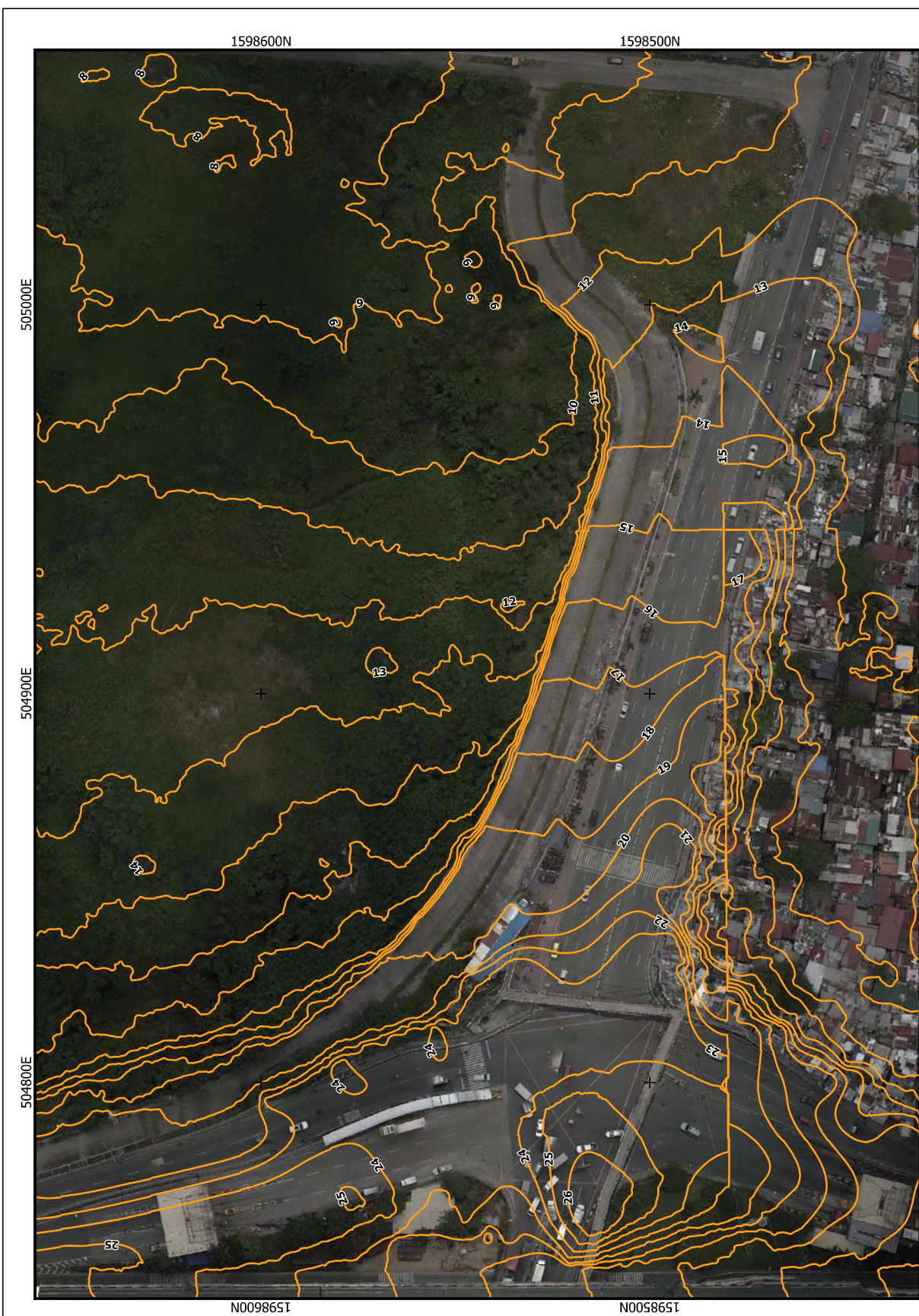
SURVEY DATE

AUGUST 2020

Meters

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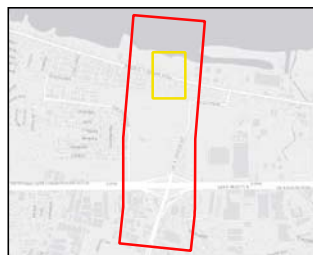
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NOTES		CLIENT		SURVEYOR	
					
I hereby certify that this is a correct plan of the above lands but not necessarily as under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.		ENGINEER ON RECORD NAME DATE		SURVEY TEAM NAME DATE	
DESIGNER NAME DATE		REVISION DATE BY REASON		SHEET NAME Survey Area 1 - Orthomosaic	
				SHEET NUMBER 09/18	



MAP INDEX



LEGEND

- Area of Interest
1m Contour

MAP PROJECTION

PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE

NOTES

CLIENT	 CTI Engineering Co., Ltd.
SURVEYOR	 AERO INTERNATIONAL

I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD	P&C NO:	8649	SURVEY TEAM
	PFR NO:	-	
DATE OF ISSUE:	DATE OF ISSUE:	09-19-11	SERV. GEN. CALEON B. LITTON GEOTECH. ENGINEER
	DATE OF ISSUE:	-	

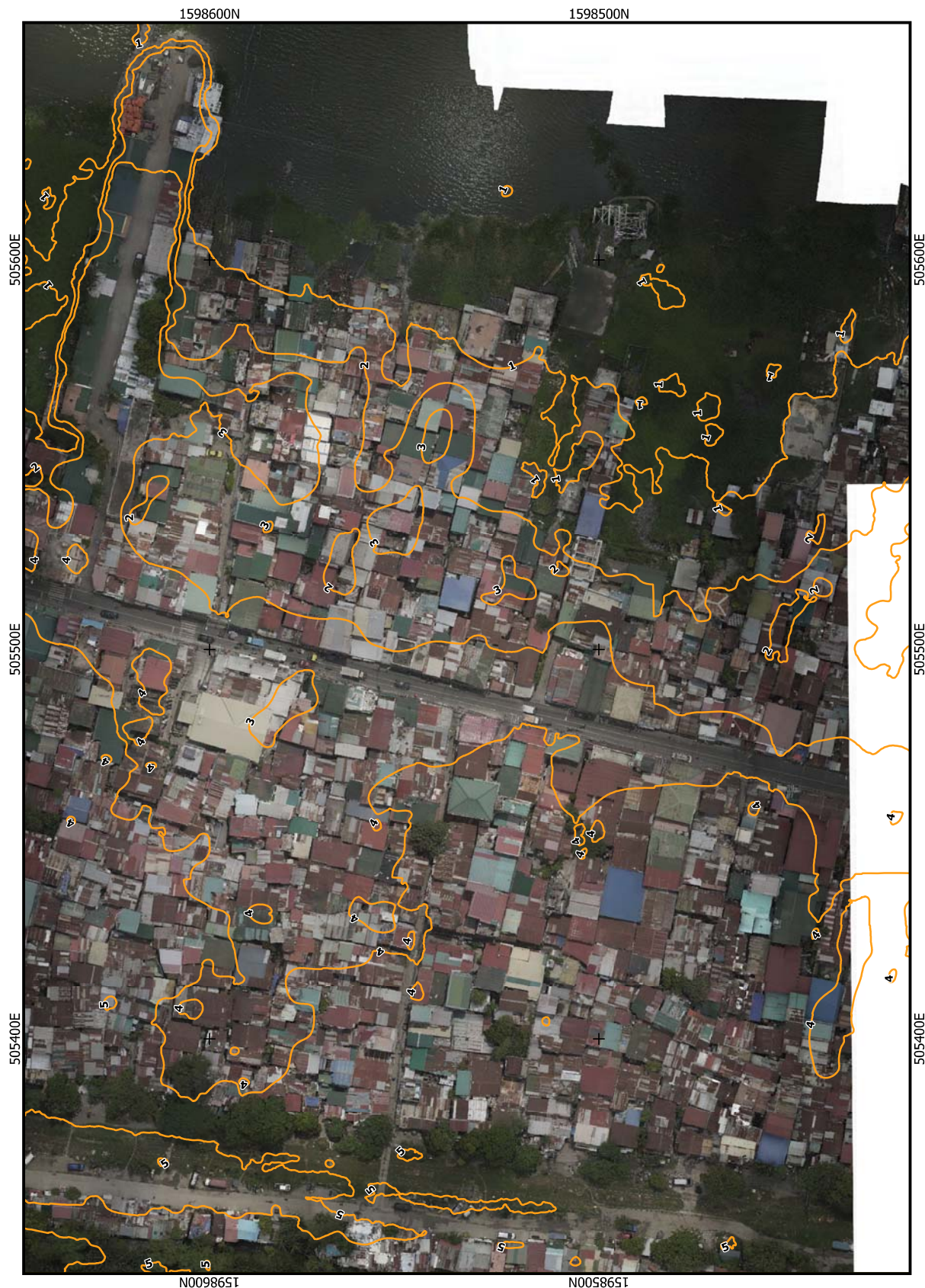
		N/A
	PROJECT MANAGER	
	LICAR OPERATOR	
	DRONE PILOT	
	SURVEY TECH	
	DATA ANALYST	

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LiDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway

Survey Area 1 - Orthomosaic

SHEET NUMBER: 11/18





Orthomosaic

MAP INDEX



LEGEND



Area of Interest



1m Contour

MAP PROJECTION

PHILIPPINE REFERENCE SYSTEM ZONE III

PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE

AUGUST 2020

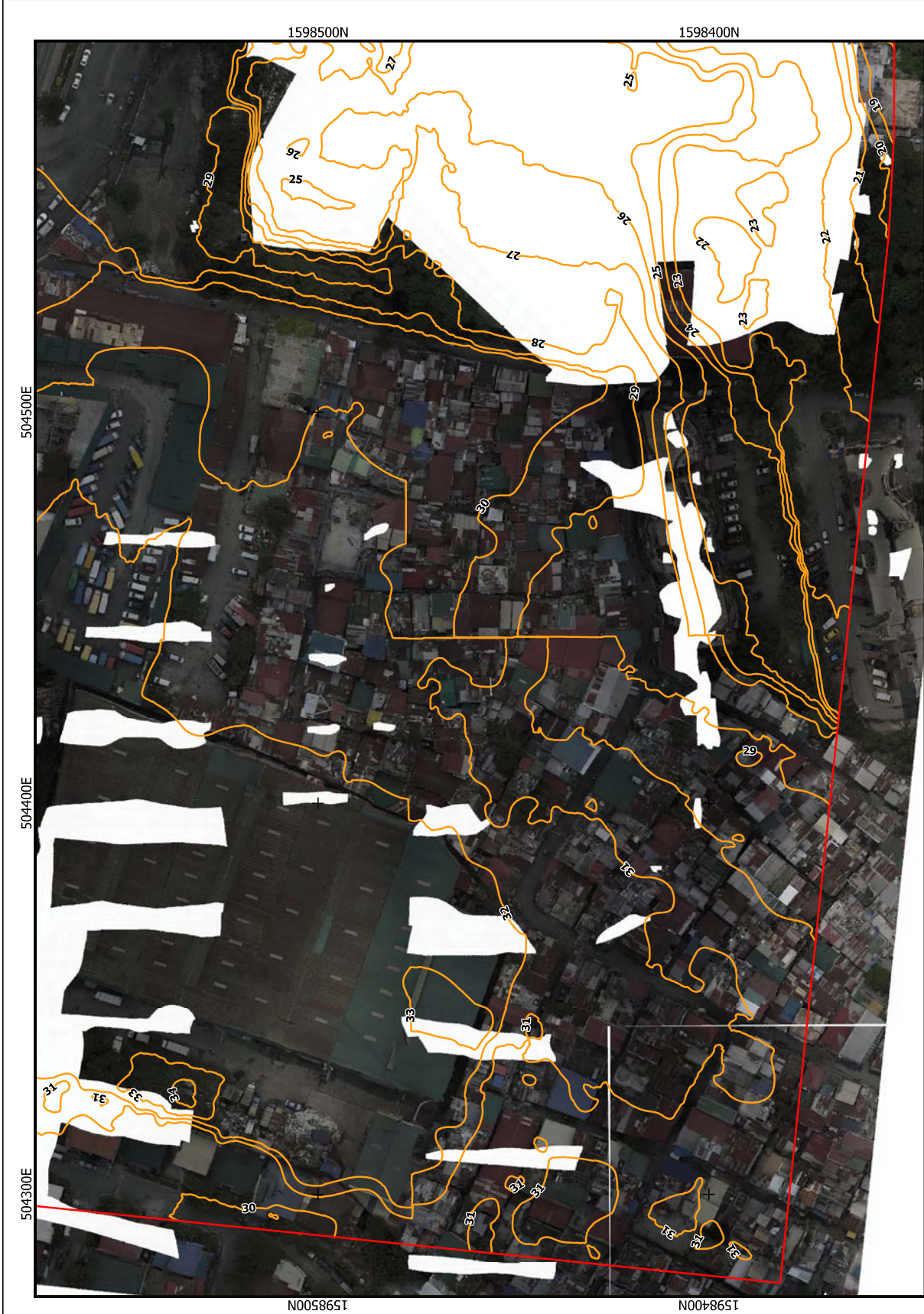
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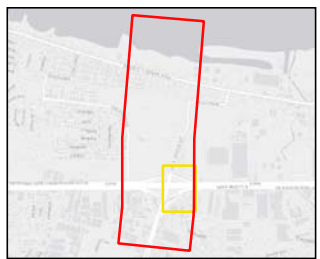


NOTES		SURVEYOR	
CLIENT			
			
I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.		I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.	
ENGINEER ON RECORD NAME: _____ TITLE: _____ DATE: _____		SURVEY TEAM NAME: _____ TITLE: _____ DATE: _____	
REVISION NO. _____ DATE: _____ BY: _____ FOR: _____		DESIGNER NAME: _____ TITLE: _____ DATE: _____	
SHEET NUMBER 13/18		Survey Area 1 - Orthomosaic	



Orthomosaic

MAP INDEX



LEGEND

Area of Interest

1m Contour

MAP PROJECTION
PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE
AUGUST 2020

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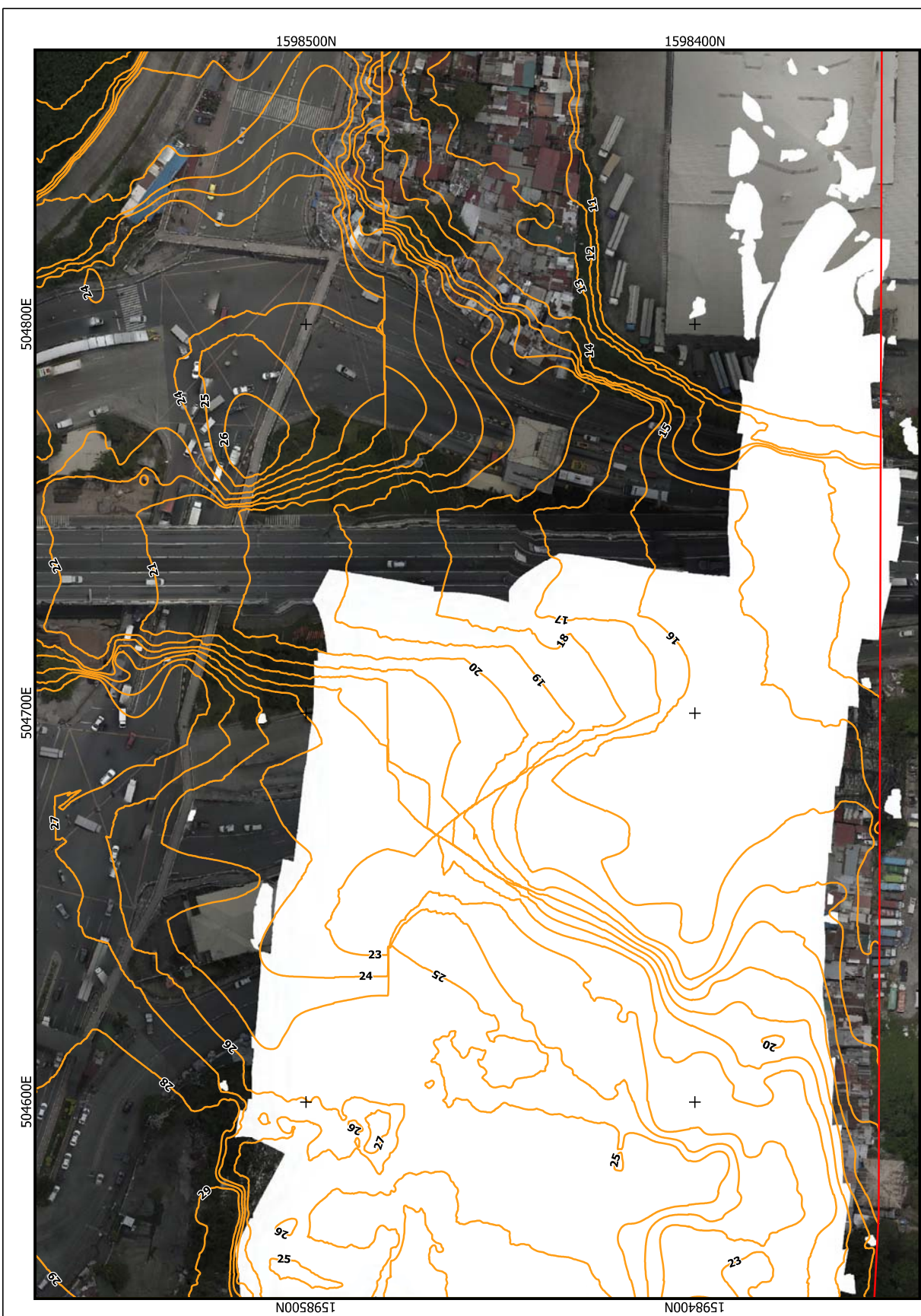


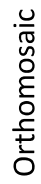
I hereby certify that this is a correct plan of the above lands but not necessarily as under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD		SURVEY TEAM		NAME	DATE	REV/ISON		DESIGNER	
REG NO.	BAR	CHIEF	ADJUTANT			DATE	BY	DATE	BY
PROJ NO.	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
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DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						

ENGINEER ON RECORD		SURVEY TEAM		NAME	DATE	REV/ISON		DESIGNER	
REG NO.	BAR	CHIEF	ADJUTANT			DATE	BY	DATE	BY
PROJ NO.	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						
DATE OF ISSUE	DATE OF ISSUE	CHIEF	ADJUTANT						

LIDAR Topographic Survey and Mapping under Follow-up Study on Parañaque Spillway		Survey Area 1 - Orthomosaic	
SHEET NUMBER	14/18		





MAP INDEX



LEGEND

- Area of Interest
1m Contour

MAP PROJECTION

PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE

Meters

1:1000

NOTES

CLIENT	 CTI Engineering Co., Ltd.
SURVEYOR	 AERO INTERNATIONAL

I hereby certify that this is a correct plan of the survey made by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD	PRC NO:	88-49
	PIR NO:	-
	DATE OF ISSUE:	09-19-11
	PLACE OF ISSUE:	
SORV/GENALION R. ILDEFONSO GEOTECH ENGINEER		

	PROJECT MANAGER	LOGIC OPERATOR	DRONE PILOT	SURVEY TECH	DATA ANALYST
--	--------------------	-------------------	----------------	----------------	-----------------

NAME	DATE

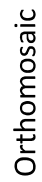
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Topographic			
Follow-up Study			

Survey and
on ParañaMapping
que Spillw

y	SHEET NAME:	S
	SHEET NUMBER:	





MAP INDEX



LEGEND

- Area of Interest
1m Contour

MAP PROJECTION

PHILIPPINE REFERENCE SYSTEM ZONE III
PHILIPPINE REFERENCE SYSTEM 1992

SURVEY DATE

Meters

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NOTES

CLIENT	 CTI Engineering Co., Ltd.
SURVEYOR	 AERO INTERNATIONAL

I hereby certify that this is a correct plan of the survey made by me personally, or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and rules and regulations of the Department of Environment and Natural Resources.

ENGINEER ON RECORD		SURVEY TEAM	
PRCNO.	8849		
PRIND	...		
DATE OF ISSUE:	06-10-11		
PLACE OF ISSUE:			
SCRIBE MAULON B. ILOFENSO GEODTIC ENGINEER			

	NAME	DATE	REVISION		DESIGNER
PROJECT		REV.	DATE	ISSUED	D-3
CADW					Final
DESCRIPTION					
SURVEY					
TITLE					
SCALE	A				

AI	10/20/2017	ASBORGATED	07/17/2018	10/20/2017
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SHEET NAME:

SHEET NUMBER:

Survey Area 1 - Orthomosaic

16/18





Orthomosaic

MAP INDEX



LEGEND

Area of Interest

1m Contour

MAP PROJECTION

PHILIPPINE REFERENCE SYSTEM ZONE III

PHILIPPINE REFERENCE SYSTEM 1992

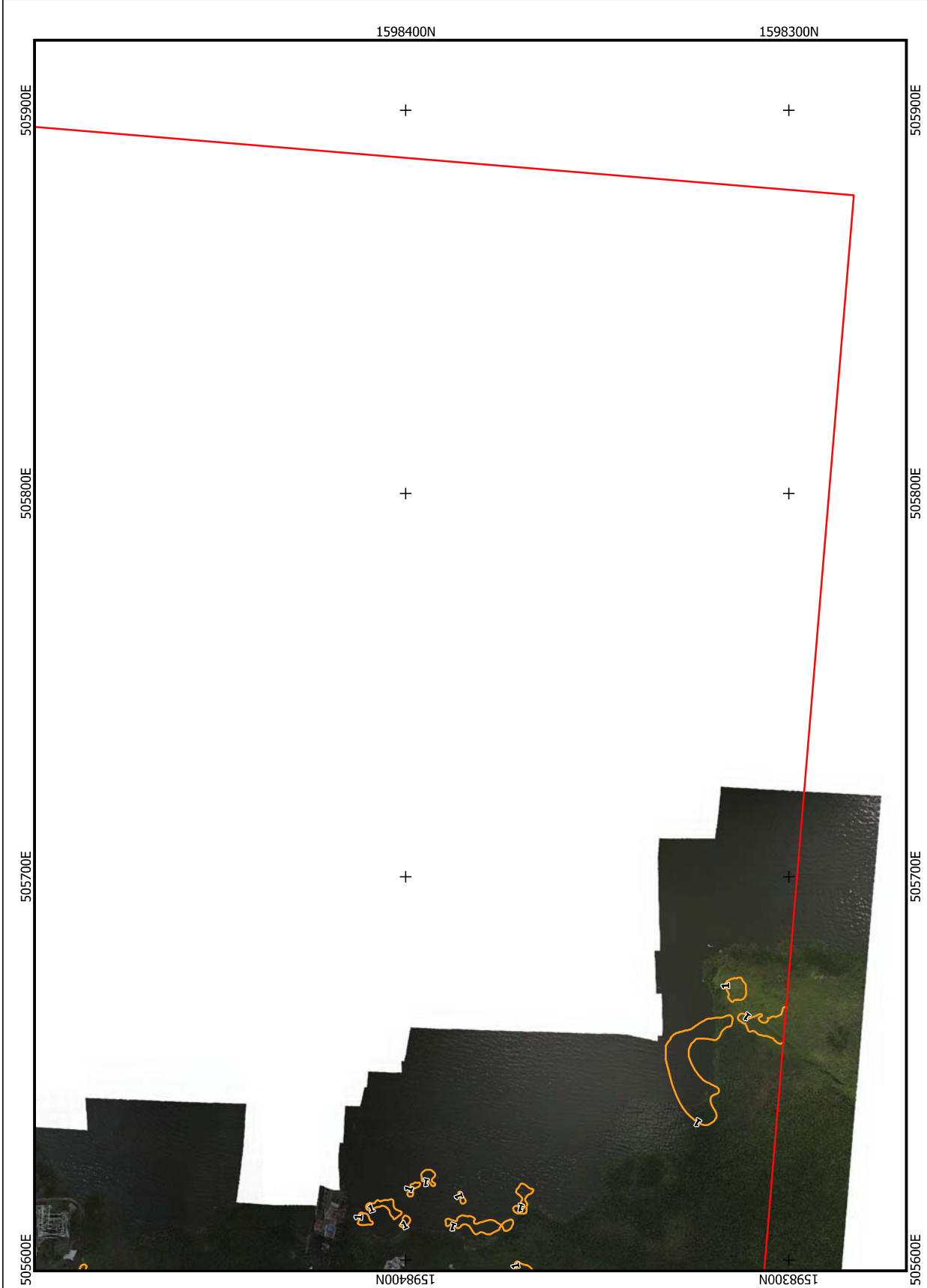
SURVEY DATE

AUGUST 2020

Meters

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NOTES		SURVEYOR	
CLIENT		AERO INTERNATIONAL	
I hereby certify that this is a correct plan of the above lands by me personally or under my direct supervision in conformity with the provisions of applicable laws of the Republic of the Philippines and the rules and regulations of the Department of Environment and Natural Resources.		CTI Engineering Co., Ltd.	
ENGINEER ON RECORD NAME DATE		SURVEY TEAM NAME DATE	
DESIGNER NAME DATE		REVISION DATE BY REASON	
SHEET NAME Survey Area 1 - Orthomosaic		SHEET NUMBER 18/18	