

INSULAR ABC'S INITIATIVE

Phase III Task 1 – Civil Engineer Findings

AMERICAN SAMOA

Civil Site Maps for Required Projects



**US Army Corps
of Engineers**
Honolulu District



**Office of Insular Affairs
US Department of Interior**



HHF PLANNERS
places for people

TABLE OF CONTENTS

I. TUTUILA

1. Afonotele Elementary School
2. Alataua II Elementary School
3. Alofau Elementary School
4. Aua Elementary School
5. Coleman Elementary School
6. Faga'itua High School
7. Lauli'i Elementary School
8. Le'atele Elementary School
9. Leone High School
10. Leone Midkiff Elementary School
11. Lupelele Elementary School
12. Manulele Elementary School
13. Masefau Elementary School
14. Matafao Elementary School
15. Matatula Elementary School
16. Mt. Alava Elementary School
17. Nu'uuli Polytech High School
18. Olomoana Elementary School
19. Pavaia'I Elementary School
20. Samoana High School
21. Siliaga Elementary School
22. Tafuna Elementary School
23. Tafuna High School

II. AUNU'U

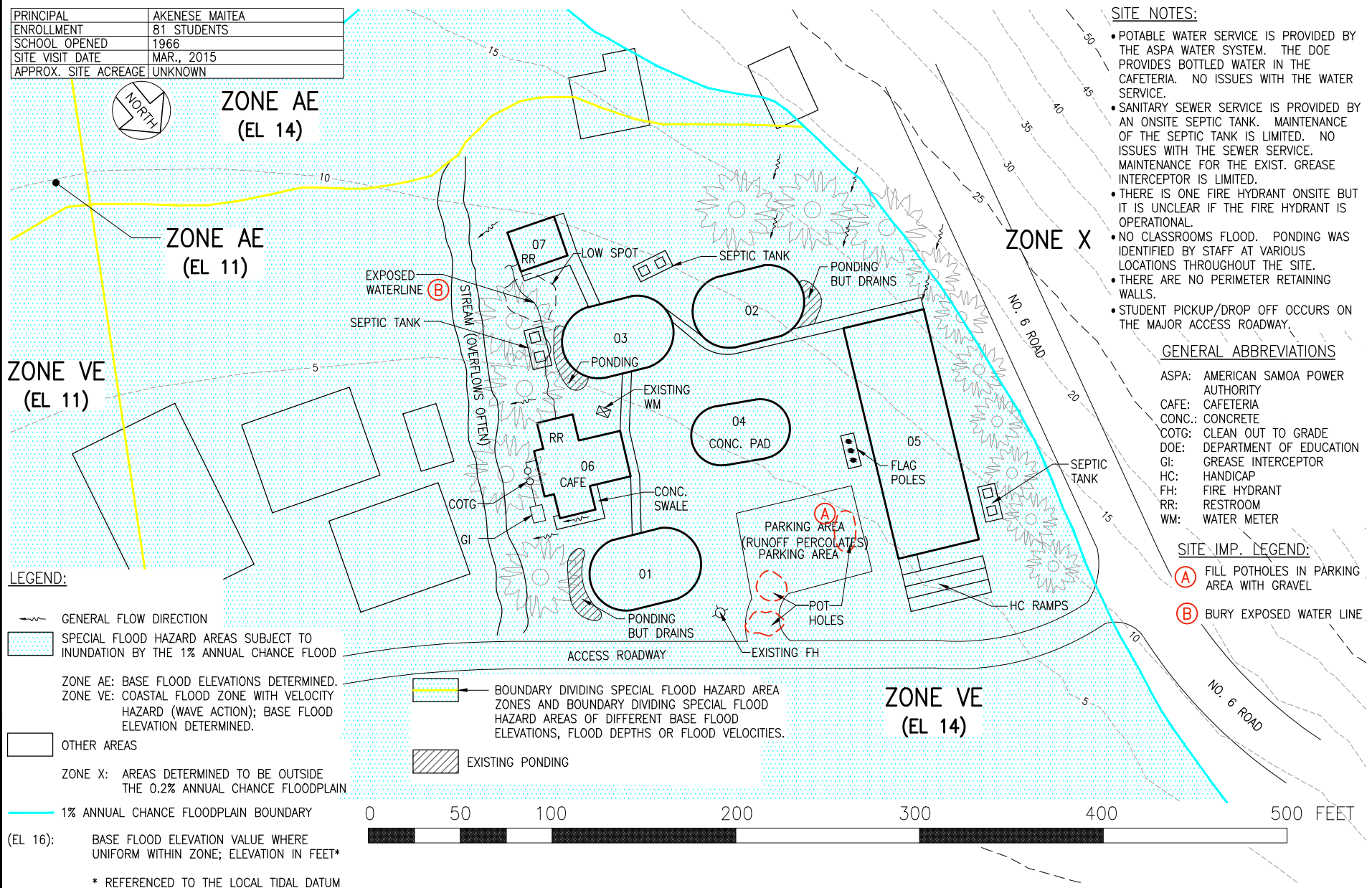
24. A.P. Lutali Elementary School

III. MANU'A

25. Faleasao Elementary School
26. Fitiuta Elementary School
27. Manu'a High School
28. Olosega Elementary School

Site Maps showing the locations of recommended projects are provided for each school in alphabetical order by island.

PRINCIPAL	AKENESE MAITEA
ENROLLMENT	81 STUDENTS
SCHOOL OPENED	1966
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



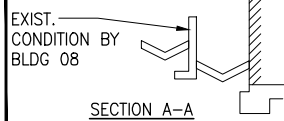
FIGURE

AFONOTELE ELEMENTARY SCHOOL

01

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	SOLOAI ALE ADELE
ENROLLMENT	300 ECE TO 8TH
SCHOOL OPENED	1960
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



SITE IMP. LEGEND:

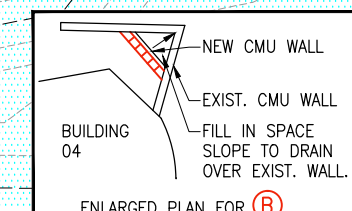
- (A) ADD SWALE TO DRAIN S/W.
- (B) NEW CMU WALL AND FILL IN SPACE BEHIND NEW CMU WALL TO DRAIN.
- (C) REMOVE MATERIAL OUTSIDE OF WALL. CREATE SWALE BELOW FLOOR SLAB. ALLOW RUNOFF TO DRAIN.
- (D) EXTEND SWALE TO STREAM
- (E) CLEAN SIDEWALK CULVERT CROSSING.
- (F) ADD SPEED BUMP, EXTEND WALL TO DRIVEWAY. DIVERT RUNOFF TO STREAM

SITE NOTES (CONT.):

- THE EXIST. SIDEWALKS SHOULD BE REPLACED.
- THERE IS NO DESIGNATED PARKING AND A MAJORITY OF THE STUDENTS ARE BUSSED TO SCHOOL. PICKUP/DROP OFF TRAFFIC MOVEMENT IS GOOD AND THERE ARE NO ISSUES.
- THERE IS NO PERIMETER FENCE.

GENERAL ABBREVIATIONS

ASPA:	AMERICAN SAMOA POWER AUTHORITY
CONC.:	CONCRETE
CMU:	CONCRETE MASONRY UNIT
ECE:	EARLY CHILDHOOD EDUCATION
EXIST.:	EXISTING
FH:	FIRE HYDRANT
GOV:	GOVERNMENT
SMH:	SEWER MANHOLE
S/W:	SIDEWALK
MH:	MANHOLE
WL:	WATER LINE
WM:	WATER METER
WV:	WATER VALVE



ZONE X

ZONE VE
(EL 19)

ZONE VE
(EL 21)

OCEAN

SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. NO ISSUES WITH THE WATER SERVICE. ONE (1) WATER METER WAS LOCATED ONSITE.
- SANITARY SEWER SERVICE IS PROVIDED BY THREE (3) ONSITE SEPTIC TANKS. THE TANKS ARE FOR THE CAFETERIA, THE RESTROOM, AND THE ECE. ASAP PUMPS THE SEPTIC TANKS ABOUT ONE TO TWO TIMES A YEAR. NO ISSUES WITH THE SEWER SERVICE. THE EXIST. GREASE INTERCEPTOR IS PUMPED ONCE OR TWICE A YEAR.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE FIRE HYDRANT OFFSITE BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- PONDING/FLOODING WAS IDENTIFIED BY STAFF AT VARIOUS LOCATIONS THROUGHOUT THE SITE.

LEGEND:

- GENERAL FLOW DIRECTION
- [Blue shaded area] SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- ZONE VE: COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATION DETERMINED.
- [White area] OTHER AREAS
- ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
- [Red line] 1% ANNUAL CHANCE FLOODPLAIN BOUNDARY
- [Yellow line] BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREA ZONES AND BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREAS OF DIFFERENT BASE FLOOD ELEVATIONS, FLOOD DEPTHS OR FLOOD VELOCITIES.

(EL 16): BASE FLOOD ELEVATION VALUE WHERE UNIFORM WITHIN ZONE; ELEVATION IN FEET*

* REFERENCED TO THE LOCAL TIDAL DATUM

0 50 100 200 300 400 500 FEET



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



FIGURE

02

ALATAUA II ELEMENTARY SCHOOL

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	ANA VAIAN
ENROLLMENT	181
SCHOOL OPENED	1960s
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. NO ISSUES WITH THE WATER SERVICE. THE SCHOOL WAS UNDER A BOIL WATER NOTICE BY ASPA AT THE TIME OF THE VISIT (2015). THE SCHOOL LUNCH PROGRAM PROVIDES PURIFIED WATER IN THE CAFETERIA.
- SANITARY SEWER SERVICE IS PROVIDED BY THREE (3) ONSITE SEPTIC TANKS BUT THE THIRD TANK USED FOR BUILDING 4 COULD NOT BE LOCATED. THERE IS A SEWER ISSUE WITH THE BUILDING 01 SEPTIC TANK AS EVERYTIME IT RAINS THE SEPTIC TANK FILLS AND THE BATHROOM FIXTURES CANNOT FLUSH. THE EXIST. GREASE INTERCEPTOR REQUIRES PUMPING TWICE A MONTH.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE FIRE HYDRANT OFFSITE LOCATED ACROSS FROM THE CAFETERIA BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- FLOODING WAS IDENTIFIED BY STAFF ON THE HIGH SIDE OF SOME OF THE BUILDINGS ON THE EAST (HIGH) SIDE OF CAMPUS.
- THERE IS NO PERIMETER FENCE BUT THE BB COURT AND TWO STORY BUILDING ARE FENCED.
- PARKING IS INADEQUATE FOR TEACHERS AND STAFF.

GENERAL ABBREVIATIONS

ASPA: AMERICAN SAMOA POWER AUTHORITY
BB: BASKETBALL
CAFE: CAFETERIA
COTG: CLEAN OUT TO GRADE
DI: DRAIN INLET
FH: FIRE HYDRANT
GI: GREASE INTERCEPTOR
K5: KINDERGARTEN THROUGH 5TH GRADE
RR: RESTROOM
RW: RETAINING WALL
WM: WATER METER

LEGEND:

- GENERAL FLOW DIRECTION
- EXISTING FLOODING
- EXISTING PONDING

ZONE X:

AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

SITE IMP. LEGEND:

- (A) REPAIR / ADD COTG COVER
- (B) CLEAN OUT EXISTING DITCH / SWALE
- (C) EXTEND CMU WALL TO DIVERT RUNOFF
- (D) ADD CONCRETE SWALE
- (E) ADD CONCRETE GUTTER AROUND BUILDING ALONG EDGE OF WALKWAY
- (F) ADD CONCRETE THRU-GUTTER SLOPE TO DRAIN CONNECT TO EXIST. CURB AND GUTTER
- (G) ADD LEACHING FIELD
- (H) REPLACE GI

0 50 100 200 300 400 500 FEET



OIA – ASSESSMENT OF BUILDINGS AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



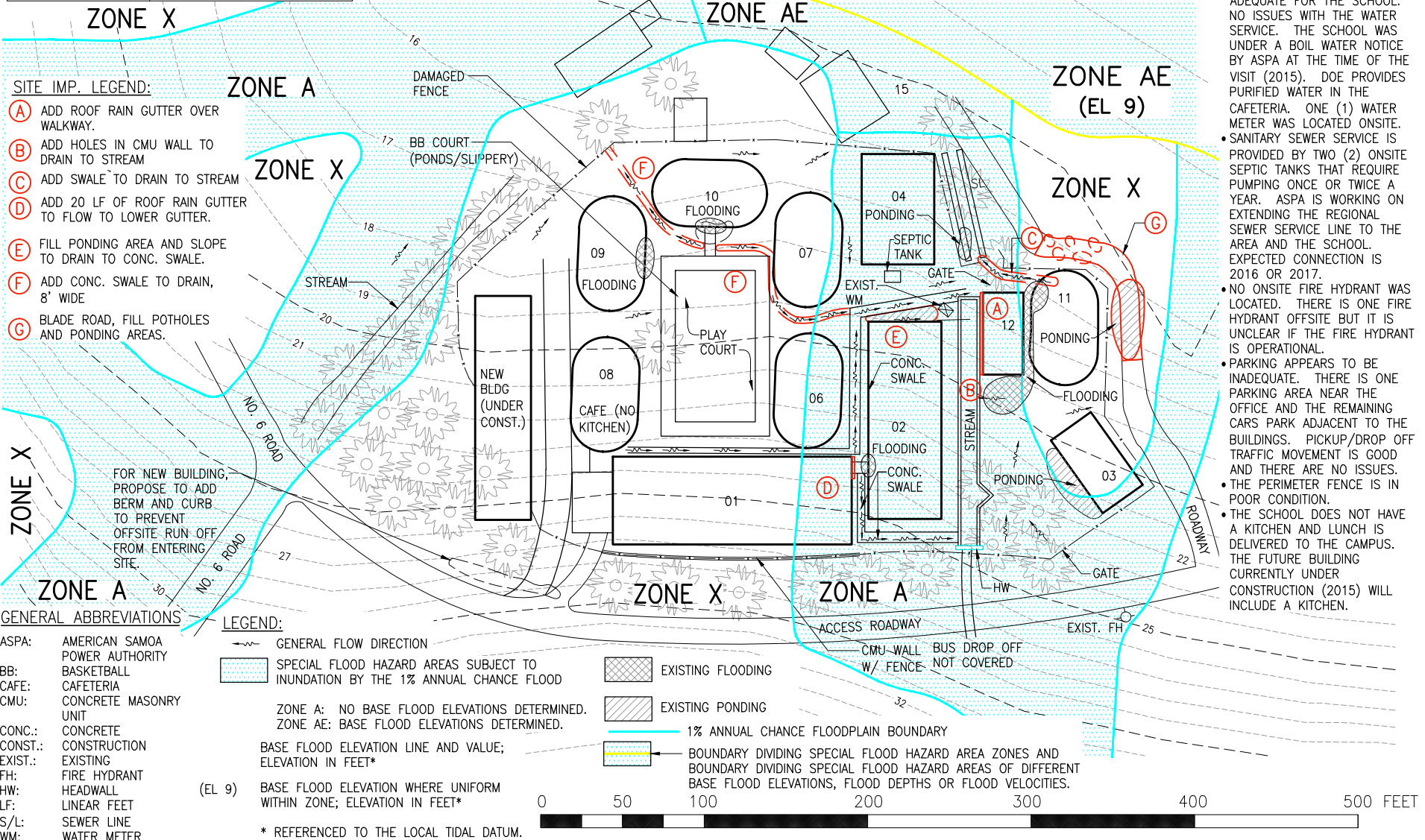
ALOFU ELEMENTARY SCHOOL

FIGURE

03

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	MAASOAMA FALEMALAMA
ENROLLMENT	540
SCHOOL OPENED	1960s
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. NO ISSUES WITH THE WATER SERVICE. THE SCHOOL WAS UNDER A BOIL WATER NOTICE BY ASPA AT THE TIME OF THE VISIT (2015). DOE PROVIDES PURIFIED WATER IN THE CAFETERIA. ONE (1) WATER METER WAS LOCATED ONSITE.
- SANITARY SEWER SERVICE IS PROVIDED BY TWO (2) ONSITE SEPTIC TANKS THAT REQUIRE PUMPING ONCE OR TWICE A YEAR. ASPA IS WORKING ON EXTENDING THE REGIONAL SEWER SERVICE LINE TO THE AREA AND THE SCHOOL. EXPECTED CONNECTION IS 2016 OR 2017.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE FIRE HYDRANT OFFSITE BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- PARKING APPEARS TO BE INADEQUATE. THERE IS ONE PARKING AREA NEAR THE OFFICE AND THE REMAINING CARS PARK ADJACENT TO THE BUILDINGS. PICKUP/DROP OFF TRAFFIC MOVEMENT IS GOOD AND THERE ARE NO ISSUES.
- THE PERIMETER FENCE IS IN POOR CONDITION.
- THE SCHOOL DOES NOT HAVE A KITCHEN AND LUNCH IS DELIVERED TO THE CAMPUS. THE FUTURE BUILDING CURRENTLY UNDER CONSTRUCTION (2015) WILL INCLUDE A KITCHEN.



OIA – ASSESSMENT OF BUILDINGS AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



AUA ELEMENTARY SCHOOL

FIGURE
04

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	TASI FEPULEAI
ENROLLMENT	762
SCHOOL OPENED	1960s
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



ZONE X

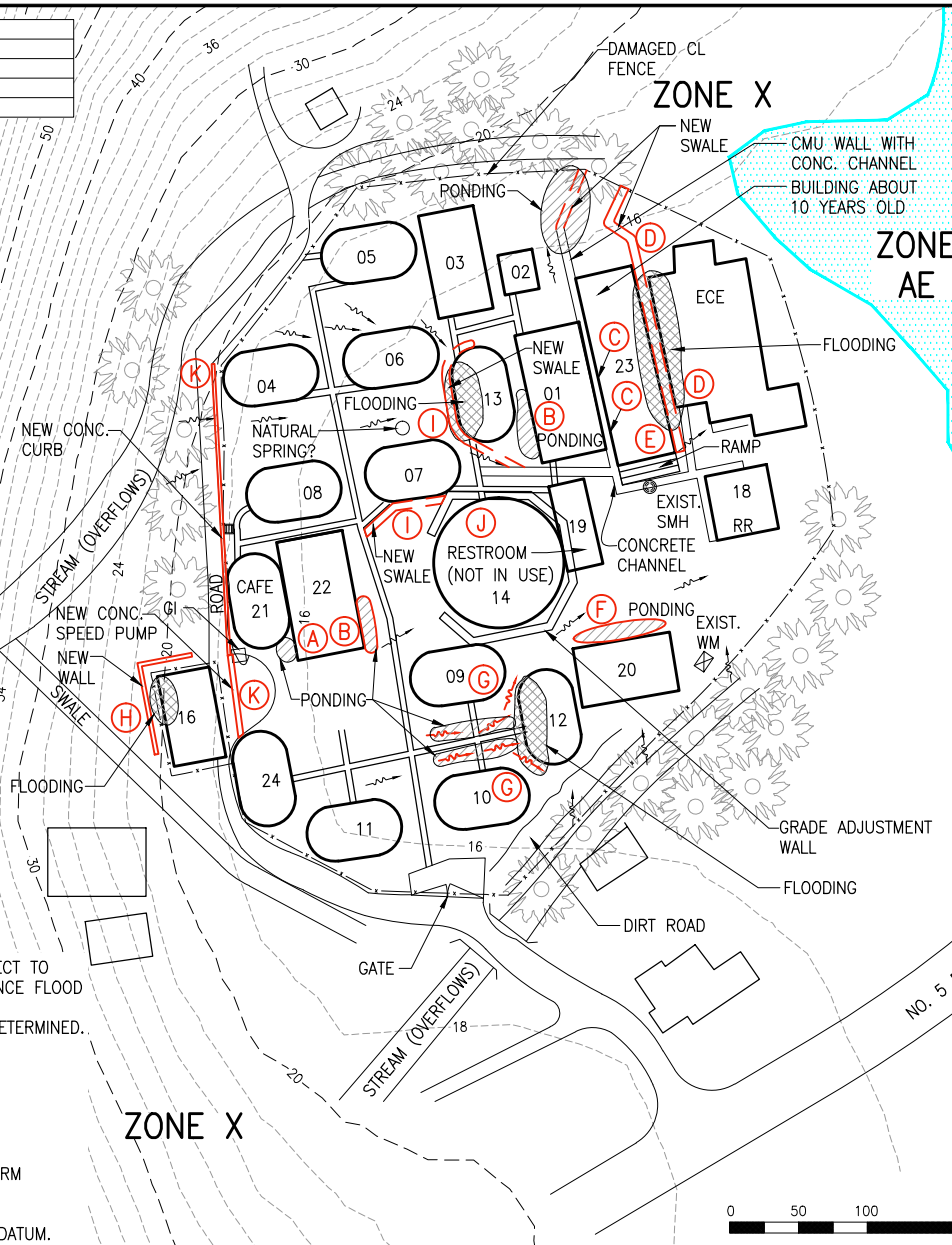
SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. ASPA LIFTED THE BOIL WATER NOTICE BUT STUDENTS STILL DO NOT DRINK FROM THE TAP. DOE PROVIDES A PURIFIED BOTTLED WATER STATION IN THE CAFETERIA. ONE (1) WATER METER WAS LOCATED ONSITE.
- SANITARY SEWER SERVICE IS PROVIDED BY THE ASPA SEWER SYSTEM. NO ISSUES WITH THE SEWER SERVICE OR GREASE INTERCEPTOR.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE FIRE HYDRANT OFFSITE ALONG NO. 5 ROAD BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- FLOODING WAS IDENTIFIED BY STAFF AT VARIOUS CLASSROOMS. THE STAFF ALSO NOTED THAT WHEN THE STREAM THAT ROUTES AROUND THE SCHOOL OVERFLOWS, WATER FLOWS INTO THE SCHOOL AND OFTEN FLOODS THE CLASSROOMS.
- PARKING APPEARS TO BE INADEQUATE AND THERE IS NO DROP OFF AREA.
- SOME OF THE EXIST. FENCE IS DAMAGED.

LEGEND:

- GENERAL FLOW DIRECTION
- EXISTING FLOODING
- EXISTING PONDING
- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- ZONE AE: BASE FLOOD ELEVATIONS DETERMINED.
- OTHER AREAS
- ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
- (EL 9) BASE FLOOD ELEVATION WHERE UNIFORM WITHIN ZONE; ELEVATION IN FEET*

* REFERENCED TO THE LOCAL TIDAL DATUM.



SITE IMP. LEGEND:

- (A) REPLACE DOWNSPOUT PIPING TO WALL PIPE AND ROUTE TO SOUTH AWAY FROM DOORWAY
- (B) BACKFILL TO ELIMINATE PONDING. SLOPE TO DRAIN
- (C) CLEAN CONC. SWALE OF DIRT AND DEBRIS.
- (D) ADD CONC. SWALE 6' WIDE SLOPE TO DRAIN TO STREAM (6" TO 12" DEEP). EXCAVATE MATERIAL TO BE 4" BELOW EDGE OF S/W AND FFE OF BUILDING 23.
- (E) ADD SIDEWALK CULVERT TO DRAIN PONDING TO NEW CONC. SWALE
- (F) FILL SUMP TO SLOPE TO DRAIN
- (G) LOWER GROUND 3" BELOW EDGE OF S/W SLOPE TO DRAIN TO EARTH SWALE
- (H) PROVIDE A 3' HIGH CMU WALL TO DIVERT STREAM RUNOFF AWAY FROM OFFICE
- (I) ADD 4'-WIDE CONC. SWALE TO ROUTE RUNOFF AROUND BUILDING 13. SLOPE TO DRAIN
- (J) BACKFILL AND REMOVE TOP WALL BLOCK. SLOPE TO DRAIN
- (K) INSTALL A CONC. SPEED BUMP AND CONC. CURB

GENERAL ABBREVIATIONS

- ASPA: AMERICAN SAMOA POWER AUTHORITY
- CAFE: CAFETERIA
- CL: CHAIN LINK
- CMU: CONCRETE MASONRY UNIT
- CONC.: CONCRETE
- DI: DRAIN INLET
- ECE: EARLY CHILDHOOD EDUCATION
- EXIST.: EXISTING
- FH: FIRE HYDRANT
- FFE: FINISH FLOOR ELEVATION
- SMH: SEWER MANHOLE
- S/W: SIDEWALK
- WM: WATER METER



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



FIGURE

05

COLEMAN ELEMENTARY SCHOOL

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	ELVIS LIUFAU
ENROLLMENT	536 (9th-12th GRADE)
SCHOOL OPENED	1968
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN

SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS LOW ON THE WEST SIDE OF THE SCHOOL. THE STAFF NOTED THAT THEY MAY ASK ASPA TO ADD A SECOND METER CONNECTION ON THE WEST SIDE OF THE SCHOOL TO INCREASE WATER PRESSURE. THE SCHOOL WAS POSSIBLY UNDER A BOIL WATER NOTICE BY ASPA AT THE TIME OF THE VISIT (2015). DOE PROVIDES BOTTLED WATER TO THE SCHOOL; NEW WATER BOTTLES ARE BROUGHT IN EVERY MON. AND THURS.
- SANITARY SEWER SERVICE IS PROVIDED BY THE ASPA SEWER SYSTEM AND AN ONSITE SEPTIC TANK. THE ECE AND CAFETERIA ARE CONNECTED TO THE ASPA SYSTEM. THE GYM CURRENTLY USES A SEPTIC TANK BUT MAY BE CONNECTED TO THE ASPA SYSTEM SOON. NO ISSUES WITH THE SEWER SERVICE BUT TOILET FLUSHING IS SLOW. THE EXIST. GREASE INTERCEPTOR IS PUMPED ONCE PER MONTH.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE FIRE HYDRANT OFFSITE BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- NO CLASSROOMS FLOOD AND MINOR PONDING WAS IDENTIFIED BETWEEN BUILDINGS 04 AND 05. A NEW DRAINAGE SYSTEM AT THE REAR OF THE SCHOOL WAS RECENTLY COMPLETED (2012).
- THE NON PAVED PARKING AREA IS ADEQUATE AND IN FAIR CONDITION. THERE IS NO COVERED WALKWAYS FOR PICKUP/DROP OFF.
- A PERIMETER FENCE FOR SAFETY AND THE PROTECTION OF THE PROPERTY IS REQUIRED.

SITE IMP. LEGEND:

- (A) ADD CONC. GUTTER TO DRAIN TO DI.
- (B) ADD CONC. S/W CULVERT.
- (C) ADD SECOND METER CONNECTION
- (D) REPLACE GREASE INTERCEPTOR

ZONE A

ZONE VE
(EL 13)



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



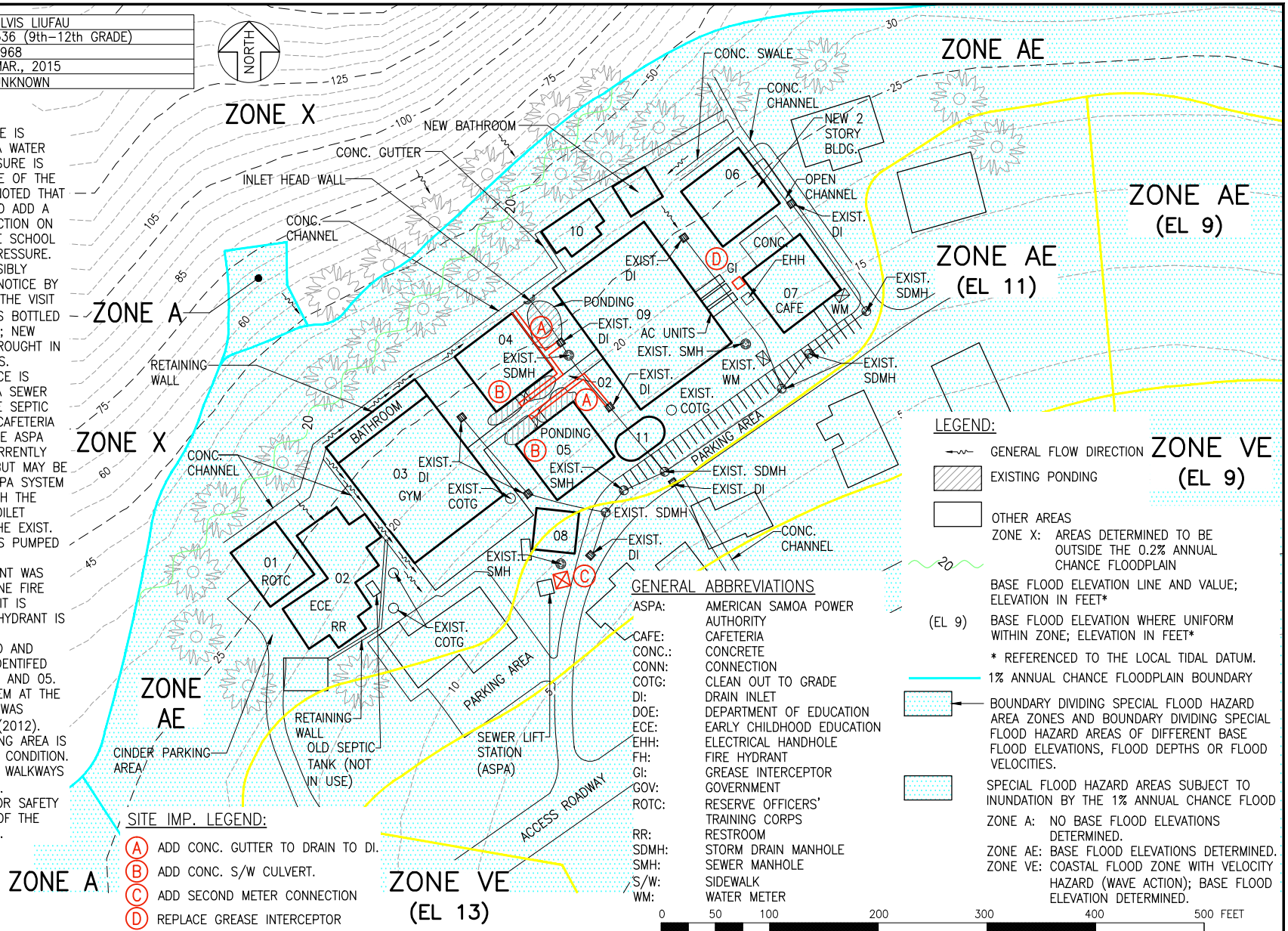
FAGA'ITUA HIGH SCHOOL



FIGURE

06

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH



PRINCIPAL	TINO ROBERTS
ENROLLMENT	226
SCHOOL OPENED	1968
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



LEGEND:

— GENERAL FLOW DIRECTION

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

ZONE AE: BASE FLOOD ELEVATIONS DETERMINED.

OTHER AREAS
ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

BASE FLOOD ELEVATION LINE AND VALUE; ELEVATION IN FEET*

(EL 13) BASE FLOOD ELEVATION WHERE UNIFORM WITHIN ZONE; ELEVATION IN FEET*

* REFERENCED TO THE LOCAL TIDAL DATUM.

1% ANNUAL CHANCE FLOODPLAIN BOUNDARY

BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREA ZONES AND BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREAS OF DIFFERENT BASE FLOOD ELEVATIONS, FLOOD DEPTHS OR FLOOD VELOCITIES.

SITE IMP. LEGEND:

- (A) ADD 6" HIGH CURB TO HOLD RUNOFF IN CONC. SWALE.
- (B) CLEAN AND MAINTAIN CONC. SWALE.
- (C) EXTEND 3" DOWNSPOUT TO CONC. SWALE.

GENERAL ABBREVIATIONS

ASPA: AMERICAN SAMOA POWER AUTHORITY
COTG: CLEAN OUT TO GRADE
ECE: EARLY CHILDHOOD EDUCATION
FH: FIRE HYDRANT
GI: GREASE INTERCEPTOR
GOV: GOVERNMENT
HW: HEAD WALL
RW: RETAINING WALL
WM: WATER METER

ZONE X

ZONE X

ZONE AE

ZONE AE
(EL 13)

ZONE AE
(EL 14)

ZONE AE
(EL 9)

SITE. NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. DOE PROVIDES PURIFIED WATER IN THE CAFETERIA. NO ISSUES WITH THE WATER SERVICE. ONE (1) WATER METER WAS LOCATED ONSITE.
- SANITARY SEWER SERVICE IS PROVIDED BY TWO (2) ONSITE SEPTIC TANKS. THE SEPTIC TANKS SERVICE THE BATHROOM AND KITCHEN. NO ISSUES WITH THE SEWER SERVICE. A GREASE INTERCEPTOR WAS INSTALLED RECENTLY (2015) AND HAS YET TO BE PUMPED.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE FIRE HYDRANT OFFSITE ALONG THE ROADWAY BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- THERE IS NO DESIGNATED PARKING AREA.
- THERE IS NO PERIMETER FENCE. THE STAFF REPORTED PROBLEMS WITH VANDALISM.

0 50 100 200 300 400 500 FEET



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



FIGURE

07

LAULI'I ELEMENTARY SCHOOL

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	ALIITASI FEPULEAI
ENROLLMENT	130 (ECE TO 8th)
SCHOOL OPENED	1964
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. DOE PROVIDES A PURIFIED WATER STATION IN THE CAFETERIA. SOME OF THE EXIST. WATER LINE PIPES ARE EXPOSED. NO OTHER ISSUES WITH THE WATER SERVICE.
- SANITARY SEWER SERVICE IS PROVIDED BY TWO ONSITE SEPTIC TANK SYSTEMS. NO ISSUES WITH THE SEWER SERVICE.
- NO ONSITE FIRE HYDRANT WAS LOCATED, BUT THERE IS ONE STAND PIPE RISER AT THE SCHOOL ENTRANCE BUT IT IS UNCLEAR IF THE RISER IS OPERATIONAL.
- PONDING AND FLOODING WERE IDENTIFIED BY STAFF AT BUILDING 04.
- THERE ARE NO RETAINING WALLS.
- THE CINDER PARKING LOT AREA HAS POTHOLES.
- THE SCHOOL IS PARTIALLY SURROUNDED BY FENCING.
- A NEW BUILDING ADJACENT TO BUILDING 01 WAS NEARING COMPLETION (2015). ONCE THE NEW BUILDING OPENS, THREE OF THE TEMP. BUILDINGS WILL BE DEMOED.

GENERAL ABBREVIATIONS

- GENERAL FLOW DIRECTION
- EXISTING PONDING
- EXISTING FLOODING
- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD.
- ZONE AE: BASE FLOOD ELEVATIONS DETERMINED.
- ZONE VE: COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATION DETERMINED.
- OTHER AREAS
- ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
- 1% ANNUAL CHANCE FLOODPLAIN BOUNDARY
- BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREA ZONES AND BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREAS OF DIFFERENT BASE FLOOD ELEVATIONS, FLOOD DEPTHS OR FLOOD VELOCITIES.

(EL 9) BASE FLOOD ELEVATION WHERE WETLAND WITHIN ZONE; ELEVATION IN FEET*

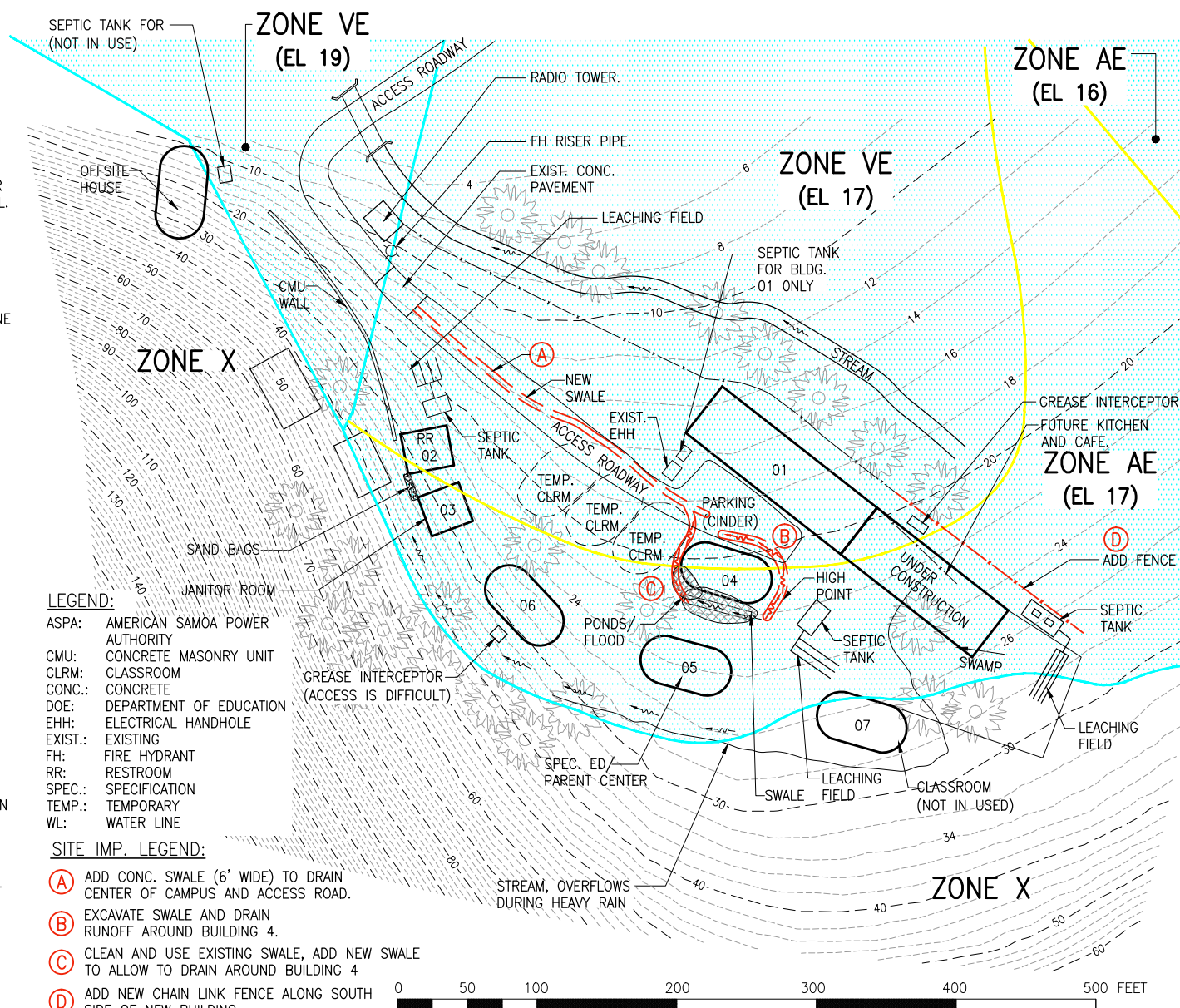
* REFERENCED TO THE LOCAL TIDAL DATUM.

LEGEND:

- ASPA: AMERICAN SAMOA POWER AUTHORITY
- CMU: CONCRETE MASONRY UNIT
- CLRM: CLASSROOM
- CONC.: CONCRETE
- DOE: DEPARTMENT OF EDUCATION
- EHH: ELECTRICAL HANDHOLE
- EXIST.: EXISTING
- FH: FIRE HYDRANT
- RR: RESTROOM
- SPEC.: SPECIFICATION
- TEMP.: TEMPORARY
- WL: WATER LINE

SITE IMP. LEGEND:

- (A) ADD CONC. SWALE (6' WIDE) TO DRAIN CENTER OF CAMPUS AND ACCESS ROAD.
- (B) EXCAVATE SWALE AND DRAIN RUNOFF AROUND BUILDING 4.
- (C) CLEAN AND USE EXISTING SWALE, ADD NEW SWALE TO ALLOW TO DRAIN AROUND BUILDING 4
- (D) ADD NEW CHAIN LINK FENCE ALONG SOUTH SIDE OF NEW BUILDING.



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



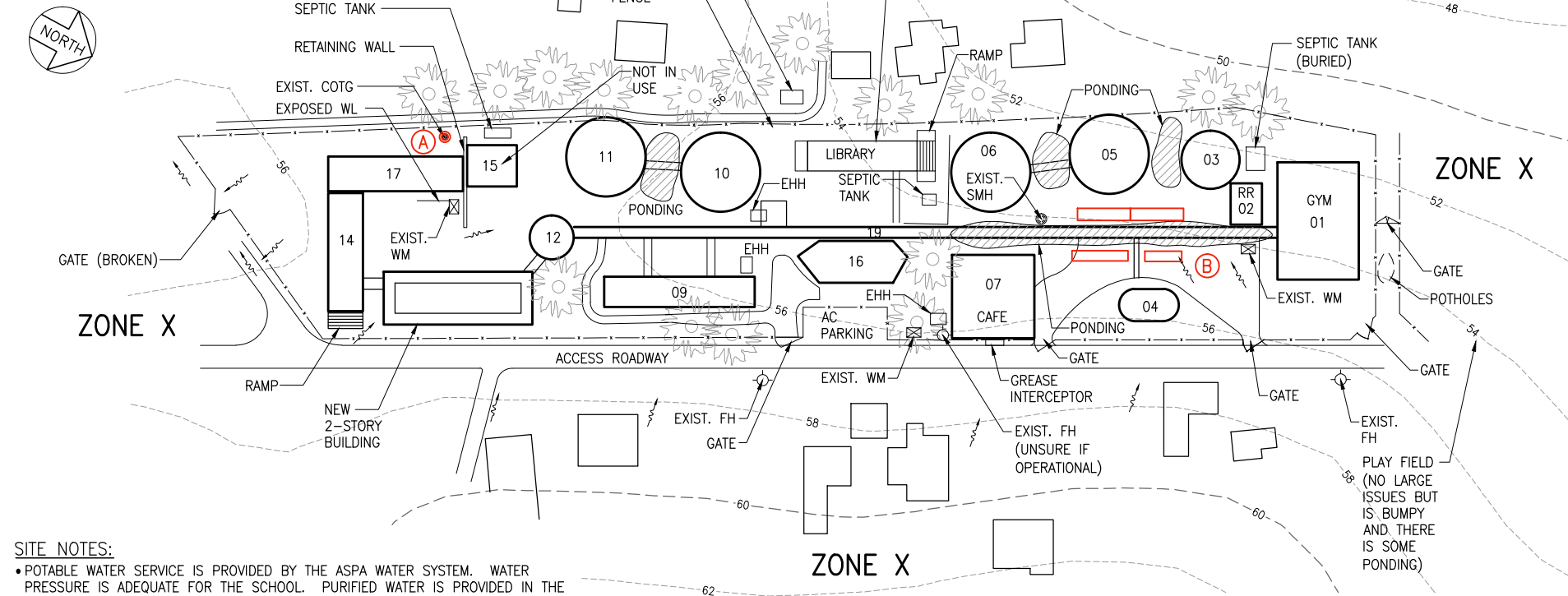
LE'ATELE ELEMENTARY SCHOOL

FIGURE

08

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	BEN TEO
ENROLLMENT	771 (9-12th GRADES)
SCHOOL OPENED	1965
SITE VISIT DATE	MARCH 27, 2015
APPROX. SITE ACREAGE	UNKNOWN



SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. PURIFIED WATER IS PROVIDED IN THE CAFETERIA. NO ISSUES WITH THE WATER SERVICE. THREE (3) WATER METERS WERE LOCATED ONSITE.
- SANITARY SEWER SERVICE IS PROVIDED BY THE ASPA SEWER SYSTEM. AN OFFSITE ASPA SEWER PUMP STATION IS LOCATED ADJACENT TO THE SCHOOL. NO ISSUES WITH THE SEWER SERVICE.
- THERE IS ONE FIRE HYDRANT ONSITE BUT IT APPEARS INOPERABLE AS HYDRANT BODY IS HALF BURIED.
- PONDING WAS IDENTIFIED BY STAFF IN THE HALLWAYS AND OVER THE ELEVATED SIDEWALK. THE CAMPUS IS A FLAT AND A LOW LYING AREA FROM THE SURROUNDING AREA.
- PER STAFF, ASPA INSTALLED UNDERGROUND DETENTION BASINS 15 YEARS AGO TO AID DRAINAGE. THE IMPROVEMENT WORKED FOR ONE YEAR THEN HASN'T HELPED SINCE. THE SUBSURFACE IS CLAY MATERIAL RESULTING IN A SLOW PERCOLATION RATE. THERE WAS RESEARCH CONDUCTED TO INSTALL A DRAINAGE SYSTEM UNDER THE FOOTBALL FIELD BUT IT IS UNCLEAR WHEN THIS PROJECT WILL TAKE PLACE.
- THERE ARE NO RETAINING WALLS.
- THERE IS NO DESIGNATED PARKING AREA AND THE MAJORITY OF STUDENTS WALK TO THE MAIN ROAD TO CATCH THE BUS.
- THERE IS DAMAGE TO THE EXISTING FENCE.

LEGEND:

- GENERAL FLOW DIRECTION
- EXISTING PONDING
- ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
- (A) REPLACE COTG COVER
- (B) ADD UNDERGROUND RETENTION CHAMBERS.

GENERAL ABBREVIATIONS

- AC: ASPHALT CONCRETE
- ASPA: AMERICAN SAMOA POWER AUTHORITY
- CAFE: CAFETERIA
- COTG: CLEAN OUT TO GRADE
- EHH: ELECTRICAL HANDHOLE
- FH: FIRE HYDRANT
- GI: GREASE INTERCEPTOR
- GOV: GOVERNMENT
- GYM: GYMNASIUM
- RR: RESTROOM
- SMH: SEWER MANHOLE
- WM: WATER METER
- WL: WATER LINE



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



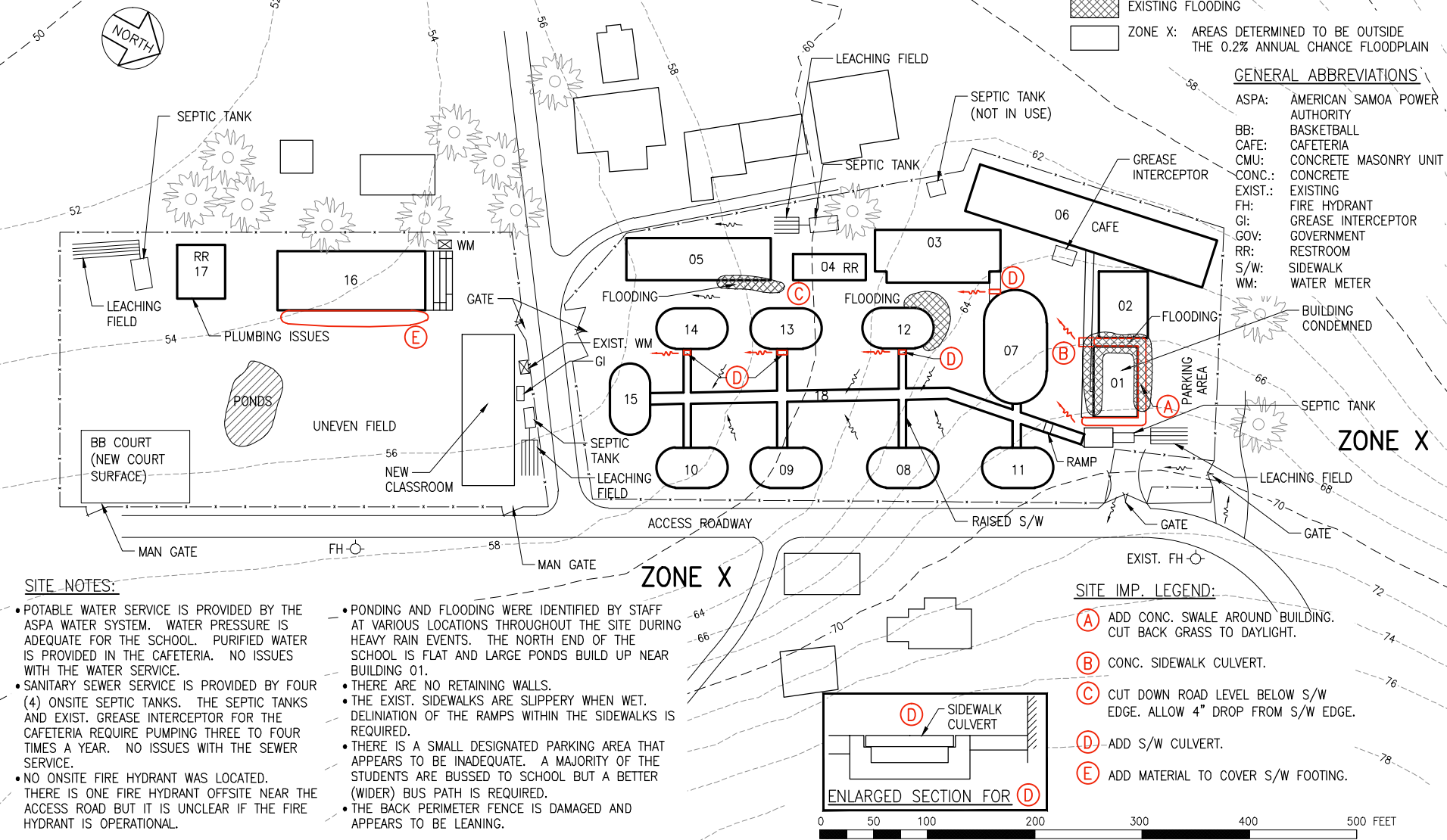
LEONE HIGH SCHOOL

FIGURE

09

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	VAILALA SMITH
ENROLLMENT	935
SCHOOL OPENED	1950
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



LEONE MIDKIFF ELEMENTARY SCHOOL

FIGURE

10

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	AVASA GALOIA
ENROLLMENT	900
SCHOOL OPENED	1960
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



ZONE X

ZONE X

ZONE X

ZONE X

LEGEND:

- GENERAL FLOW DIRECTION
- EXISTING PONDING
- EXISTING FLOODING
- ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN



SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. NO ISSUES WITH THE WATER SERVICE. PER STAFF, THE EPA TESTS THE WATER EVERY TWO WEEKS. ONE (1) WATER METER WAS LOCATED ONSITE.
- SANITARY SEWER SERVICE IS PROVIDED BY THE ASPA SEWER SYSTEM. THE EXIST. GREASE INTERCEPTOR HAS ISSUES AND REQUIRES PUMPING THREE TO FOUR TIMES A YEAR.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE FIRE HYDRANT OFFSITE NEAR THE ACCESS ROAD BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- FLOODING AND PONDING WERE IDENTIFIED BY STAFF AT VARIOUS LOCATIONS THROUGHOUT THE SITE DURING HEAVY RAIN EVENTS. PONDING IS A MAJOR ISSUE AT THE BASKETBALL COURT.
- THERE ARE NO RETAINING WALLS.
- THERE IS NO DESIGNATED PARKING AREA BUT A PORTION OF THE BB COURT IS USED. THERE IS LARGE RUTTING IN THE ACCESS ROADWAY INSIDE OF THE CAMPUS. A MAJORITY OF THE STUDENTS ARE BUSSED TO SCHOOL AND PICKUP/DROP OFF TRAFFIC MOVEMENT IS GOOD, THERE ARE NO ISSUES.
- THERE IS SOME DAMAGE TO THE EXIST. FENCE.
- FOUNDATION UNDERMINING IS PREVALENT FOR MOST OF THE BUILDINGS, ESPECIALLY IN THE LOW SIDE OF THE CAMPUS.

GENERAL ABBREVIATIONS

ASPA:	AMERICAN SAMOA POWER AUTHORITY
BB:	BASKETBALL
CONC.:	CONCRETE
ECE:	EARLY CHILDHOOD EDUCATION
EXIST.:	EXISTING
FH:	FIRE HYDRANT
GI:	GREASE INTERCEPTOR
GOV:	GOVERNMENT
S/W:	SIDEWALK
WM:	WATER METER
WL:	WATER LINE

SITE IMP. LEGEND:

- (A) ADD CONCRETE SWALE, EXCAVATE 4" BELOW EDGE SIDEWALK TO ROUTE RUNOFF ALONG EDGE OF SIDEWALK.
- (B) BACKFILL LOW SPOT TO ELIMINATE PONDING. SLOPE TO DRAIN FROM EDGE OF SIDEWALK.
- (C) CREATE NEW SWALE ROUTE TO SOUTH OF COURT. LOWER GROUND BELOW EDGE OF COURT PAVEMENT.
- (D) ADD CONC. SWALE 8' WIDE AROUND NORTH WEST, SOUTH SIDES OF COURT.
- (E) 6' WIDE CONC. SWALE ACROSS ROAD.
- (F) NEW GREASE INTERCEPTOR



OIA – ASSESSMENT OF BUILDINGS AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



FIGURE

LUPELELE ELEMENTARY SCHOOL

11

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	FOASE FANO
ENROLLMENT	1125
SCHOOL OPENED	1966
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS LOW FOR THE SCHOOL. BOTTLED WATER IS PROVIDED TO THE STUDENTS. THREE (3) WATER METERS WERE LOCATED ONSITE.
- SANITARY SEWER SERVICE IS PROVIDED BY THE ASPA SEWER SYSTEM. NO ISSUES WITH THE SEWER SERVICE. THE EXIST. GREASE INTERCEPTOR IS PUMPED TWICE A YEAR.
- NO ONSITE OR NEARBY OFFSITE FIRE HYDRANT WAS LOCATED.
- FLOODING AND PONDING WERE IDENTIFIED BY STAFF AT VARIOUS LOCATIONS THROUGHOUT THE SITE. BUILDINGS 02, 11, 12, 13, 15 AND 16 FLOOD AND A LARGE POND FORMS IN THE COURTYARD FRONTING BUILDINGS 05, 08 AND 09.
- THE PARKING AREAS ARE LOCATED NEAR THE OFFICE AND BEHIND THE TWO STORY BUILDING. PARKING APPEARS TO BE INADEQUATE. PICKUP/DROP OFF AREA IS CONGESTED AND THE TRAFFIC MOVEMENT IS POOR.
- REPLACEMENT OF THE PERIMETER FENCE IS REQUIRED.

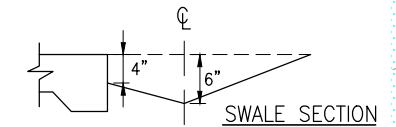
LEGEND:

- GENERAL FLOW DIRECTION
- EXISTING PONDING
- EXISTING FLOODING
- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
ZONE AE: BASE FLOOD ELEVATIONS DETERMINED.
- OTHER AREAS
ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
- 1% ANNUAL CHANCE FLOODPLAIN BOUNDARY

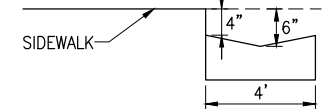
0 50 100 200 300 400 500 FEET

SITE IMP. LEGEND:

- (A) REDO CONC. SWALE. PLACE CENTER OF SWALE ON EAVE LINE, 4' WIDE



- (B) EXCAVATE DOWN 4" @ EDGE OF SIDEWALK AND 6" @ C/L OF SWALE



- (C) REGRADE AND ADD SWALE TO DRAIN COURTYARD.

- (D) LOWER 4"-5" FROM TOP SIDEWALK CREATE SWALE TO DRAIN TO EAST. MOVE ROCK TO CREATE SWALE

- (E) RESEARCH LOW WATER PRESSURE (NOT SHOWN ON FIGURE)

GENERAL ABBREVIATIONS

- ASPA: AMERICAN SAMOA POWER AUTHORITY
BB: BASKETBALL
CRM: CONCRETE RUBBLE MASONRY
CONC.: CONCRETE
EXIST.: EXISTING
FH: FIRE HYDRANT
GI: GREASE INTERCEPTOR
GOV: GOVERNMENT
S/W: SIDEWALK
RR: RESTROOM
WM: WATER METER
WL: WATER LINE



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



MANULELE ELEMENTARY SCHOOL



FIGURE

12

PRINCIPAL	ASOFAAFETAL PULU
ENROLLMENT	112 (ECE-8th GRADE)
SCHOOL OPENED	1940s
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN

LEGEND:

- GENERAL FLOW DIRECTION
- EXISTING PONDING
- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- ZONE AE: BASE FLOOD ELEVATIONS DETERMINED.
- ZONE VE: COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATION DETERMINED.

- BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREA ZONES AND BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREAS OF DIFFERENT BASE FLOOD ELEVATIONS, FLOOD DEPTHS OR FLOOD VELOCITIES.

(EL 6) BASE FLOOD ELEVATION WHERE UNIFORM WITHIN ZONE; ELEVATION IN FEET*

* REFERENCED TO THE LOCAL TIDAL DATUM.

ZONE AE
(EL 6)

GENERAL ABBREVIATIONS

ADMIN:	ADMINISTRATION
ASPA:	AMERICAN SAMOA POWER AUTHORITY
BB:	BASKETBALL
CAFE:	CAFETERIA
COTG:	CLEAN OUT TO GRADE
ECE:	EARLY CHILDHOOD EDUCATION
EHH:	ELECTRICAL HANDHOLE
EMH:	ELECTRICAL MANHOLE
EXIST.:	EXISTING
FH:	FIRE HYDRANT
GI:	GREASE INTERCEPTOR
GOV:	GOVERNMENT
RR:	RESTROOM
TEMP:	TEMPORARY
WM:	WATER MAIN
WL:	WATER LINE



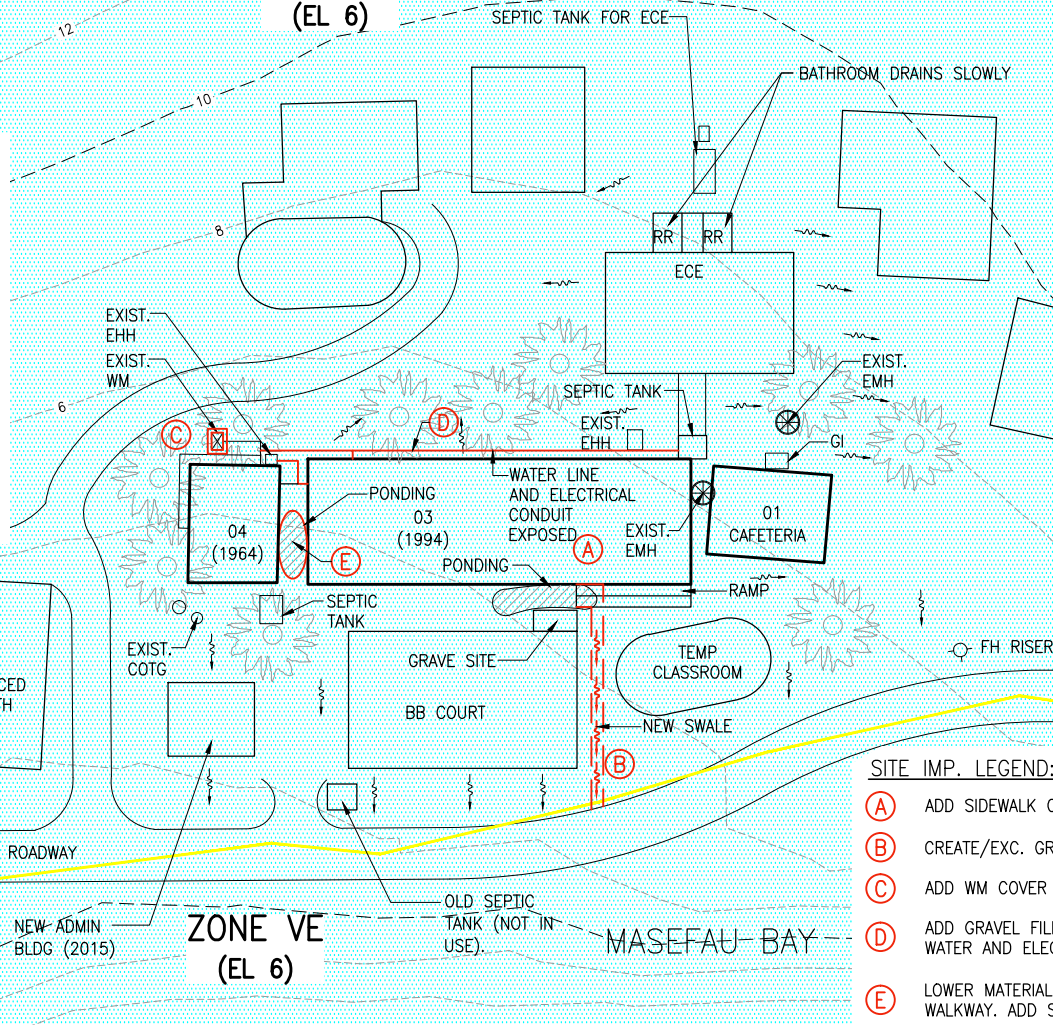
ACCESS ROADWAY

NEW ADMIN BLDG (2015)

ZONE VE
(EL 7)

ZONE VE
(EL 6)

ZONE AE
(EL 6)



SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS LOW FOR THE SCHOOL, ESPECIALLY IN ECE. THE SCHOOL WAS UNDER A BOIL WATER NOTICE AT THE TIME OF THE VISIT (2015). BOTTLED WATER IS PROVIDED TO THE STUDENTS. ONE (1) WATER METER WAS LOCATED ONSITE. THE WATER METER BOX WAS MISSING A COVER.
- SANITARY SEWER SERVICE IS PROVIDED BY THREE (3) ONSITE SEPTIC TANKS. THE TANKS SERVICE THE BATHROOM, ECE AND CAFETERIA. ASPA PUMPS THE SEPTIC TANKS A FEW TIMES PER YEAR. THERE ARE NO ISSUES WITH THE SEWER SERVICE. THE EXIST. GREASE INTERCEPTOR IS PUMPED THREE TO FOUR TIMES A YEAR.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE FIRE HYDRANT OFFSITE ALONG THE ROADWAY BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- NONE OF THE CLASSROOMS FLOODS AND MINOR PONDING WAS IDENTIFIED.
- THERE ARE NO RETAINING WALLS.
- THERE IS NO DESIGNATED PARKING AREA. TEACHERS AND STAFF PARK ADJACENT TO THE BUILDINGS.
- THERE IS NO PERIMETER FENCE.

SITE IMP. LEGEND:

- (A) ADD SIDEWALK CULVERT SLOPE TO DRAIN
- (B) CREATE/EXC. GRASS SWALE TO ROAD.
- (C) ADD WM COVER
- (D) ADD GRAVEL FILL MATERIAL TO COVER EXPOSED WATER AND ELEC. CONDUIT.
- (E) LOWER MATERIAL TO BE 4" BELOW EDGE OF WALKWAY. ADD SIDEWALK CULVERT TO DRAIN AREA.



OIA - ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA - TUTUILA



FIGURE

13

MASEFAU ELEMENTARY SCHOOL

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	MOE FAUMUINA
ENROLLMENT	647 (ECE-8th GRADE)
SCHOOL OPENED	1950s
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN

SITE IMP. LEGEND:

- (A) ADD SECURITY FENCE ALONG THE WEST, SOUTH AND EAST SIDE OF CAMPUS
- (B) ADD 6' WIDE CONC. SWALE ALONG EAST SIDE OF MAIN PARKING AREA SLOPE TO DRAIN TO OCEAN.
- (C) REMOVE LARGE TREES AS ROOTS ARE DAMAGING PLUMBING.
- (D) BLADE AND EVEN OUT ACCESS ROADWAY, AND FILL IN POTHOLES. PROVIDE SMOOTH RIDING SURFACE.
- (E) REPLACE GREASE INTERCEPTOR

SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. NO ISSUES WITH THE WATER SERVICE. THE SCHOOL WAS UNDER A BOIL WATER NOTICE BY ASPA AT THE TIME OF THE VISIT (2015). DOE PROVIDES BOTTLED WATER TO THE STUDENTS FOR CONSUMPTION. TWO (2) WATER METERS WERE LOCATED ONSITE.
- SANITARY SEWER SERVICE IS PROVIDED BY THE ASPA SEWER SYSTEM. NO ISSUES WITH THE SEWER SERVICE. THE EXIST. GREASE INTERCEPTOR REQUIRES PUMPING SIX TIMES A YEAR.

GENERAL ABBREVIATIONS

ASPA: AMERICAN SAMOA POWER AUTHORITY
BB: BASKETBALL
BFP: BACK FLOW PREVENTER
CAFE: CAFETERIA
COL: COLUMN
CONC: CONCRETE
COTG: CLEAN OUT TO GRADE
CL: CHAIN LINK
CLRMS: CLASSROOMS
EHH: ELECTRICAL HANDHOLE
FH: FIRE HYDRANT
GI: GREASE INTERCEPTOR

SITE NOTES (CONT.):

- NO ONSITE FIRE HYDRANT WAS LOCATED. ONE FIRE HYDRANT WAS LOCATED OFFSITE ALONG THE ROADWAY BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- PONDING WAS IDENTIFIED BY STAFF AT THE PARKING AREA AND NORTHERN ACCESS ROAD.
- PARKING AREA PAVED WITH CRUSHED GRAVEL AND CINDER.
- EXIST. FENCE IS LOCATED ALONG THE ROADWAY ONLY.
- THERE IS A SEAWALL AT THE REAR OF THE CAMPUS.

ZONE VE (EL 18)

ZONE VE (EL 24)

ZONE X

LEGEND

- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- ZONE VE: COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATION DETERMINED.
- OTHER AREAS
- ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

GENERAL ABBREVIATIONS

GOV: GOVERNMENT
RR: RESTROOM
S/W: SIDEWALK
VB: VOLLEYBALL
WM: WATER METER
WL: WATER LINE

LEGEND (CONT.):

- GENERAL FLOW DIRECTION
- EXISTING PONDING
- 1% ANNUAL CHANCE FLOODPLAIN BOUNDARY
- BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREA ZONES AND BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREAS OF DIFFERENT BASE FLOOD ELEVATIONS, FLOOD DEPTHS OR FLOOD VELOCITIES.
- (EL 9) BASE FLOOD ELEVATION WHERE UNIFORM WITHIN ZONE; ELEVATION IN FEET*

* REFERENCED TO THE LOCAL TIDAL DATUM.

0 50 100 200 300 400 500 FEET



OIA - ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



FIGURE

MATAFAO ELEMENTARY SCHOOL

14

PRINCIPAL	FAALETINO ROBERTS
ENROLLMENT	260 (ECE-8th GRADE)
SCHOOL OPENED	1966
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



LEGEND:

- GENERAL FLOW DIRECTION
- EXISTING PONDING

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

ZONE AE: BASE FLOOD ELEVATIONS DETERMINED.

ZONE VE: COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATION DETERMINED.

BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREA ZONES AND BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREAS OF DIFFERENT BASE FLOOD ELEVATIONS, FLOOD DEPTHS OR FLOOD VELOCITIES.

(EL 15) BASE FLOOD ELEVATION WHERE UNIFORM WITHIN ZONE; ELEVATION IN FEET*

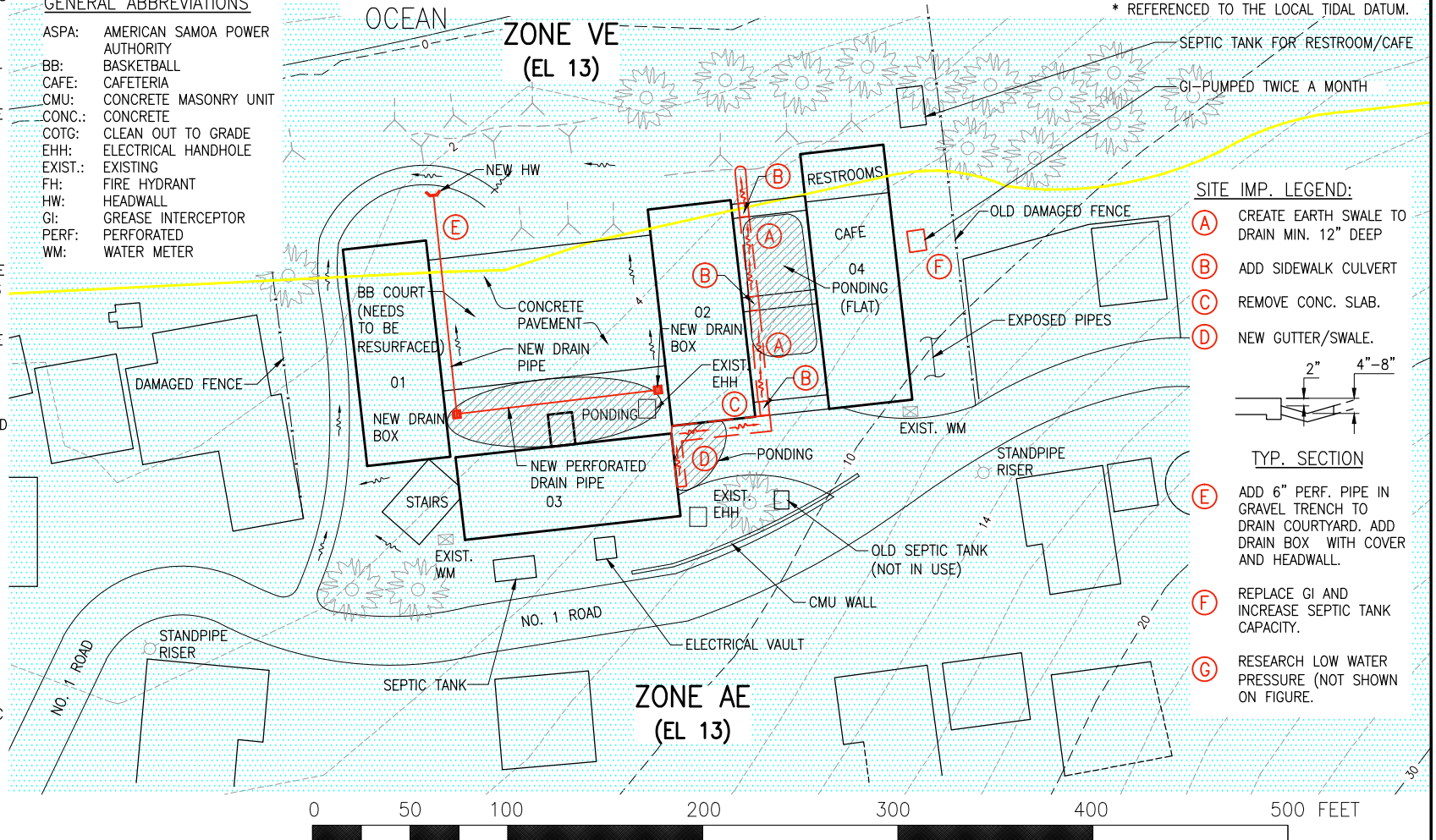
* REFERENCED TO THE LOCAL TIDAL DATUM.

SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS LOW FOR THE SCHOOL. THE SCHOOL MAY HAVE BEEN UNDER A BOIL WATER NOTICE BY ASPA AT THE TIME OF THE VISIT (2015). DOE PROVIDES BOTTLED WATER AND PURIFIED WATER FOUNTAINS TO THE STUDENTS.
- SANITARY SEWER SERVICE IS PROVIDED BY TWO (2) ONSITE SEPTIC TANKS. THE SEPTIC TANK FOR THE RESTROOM/CAFE REQUIRES PERIODIC PUMPING BY ASPA. NO ISSUES WITH THE SEWER SERVICE. THE GREASE INTERCEPTOR REQUIRES PUMPING TWICE A MONTH.
- NO ONSITE FIRE HYDRANT WAS LOCATED. TWO STAND PIPE RISERS WERE LOCATED NEARBY ACROSS NO. 1 ROAD, BUT IT WAS UNCLEAR IF THEY WERE OPERATIONAL.
- PONDING WAS IDENTIFIED BY STAFF IN THE MAIN COURTYARD BETWEEN BUILDINGS 01 AND 02. PONDING WAS ALSO IDENTIFIED IN THE MAIN PARKING AREA WEST OF BUILDING 02.
- A MAJORITY OF THE STUDENTS WALK OR ARE BUSED TO SCHOOL. PICKUP/DROP OFF TRAFFIC MOVEMENT FOR CARS/BUSES IS POOR.
- THE SCHOOL IS PARTIALLY SURROUNDED BY A PERIMETER FENCE; HOWEVER THE EXISTING FENCE IS IN POOR CONDITION.

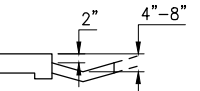
GENERAL ABBREVIATIONS

ASPA:	AMERICAN SAMOA POWER AUTHORITY
BB:	BASKETBALL
CAFE:	CAFETERIA
CMU:	CONCRETE MASONRY UNIT
CONC.:	CONCRETE
COTG:	CLEAN OUT TO GRADE
EHH:	ELECTRICAL HANDHOLE
EXIST.:	EXISTING
FH:	FIRE HYDRANT
HW:	HEADWALL
GI:	GREASE INTERCEPTOR
PERF:	PERFORATED
WM:	WATER METER



SITE IMP. LEGEND:

- (A) CREATE EARTH SWALE TO DRAIN MIN. 12" DEEP
- (B) ADD SIDEWALK CULVERT
- (C) REMOVE CONC. SLAB.
- (D) NEW GUTTER/SWALE.
- (E) ADD 6" PERF. PIPE IN GRAVEL TRENCH TO DRAIN COURTYARD. ADD DRAIN BOX WITH COVER AND HEADWALL.
- (F) REPLACE GI AND INCREASE SEPTIC TANK CAPACITY.
- (G) RESEARCH LOW WATER PRESSURE (NOT SHOWN ON FIGURE).



TYP. SECTION



OIA - ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



FIGURE

MATATULA ELEMENTARY SCHOOL

15

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	USOALII AINU'U
ENROLLMENT	97(ECE-8th)
SCHOOL OPENED	1968
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



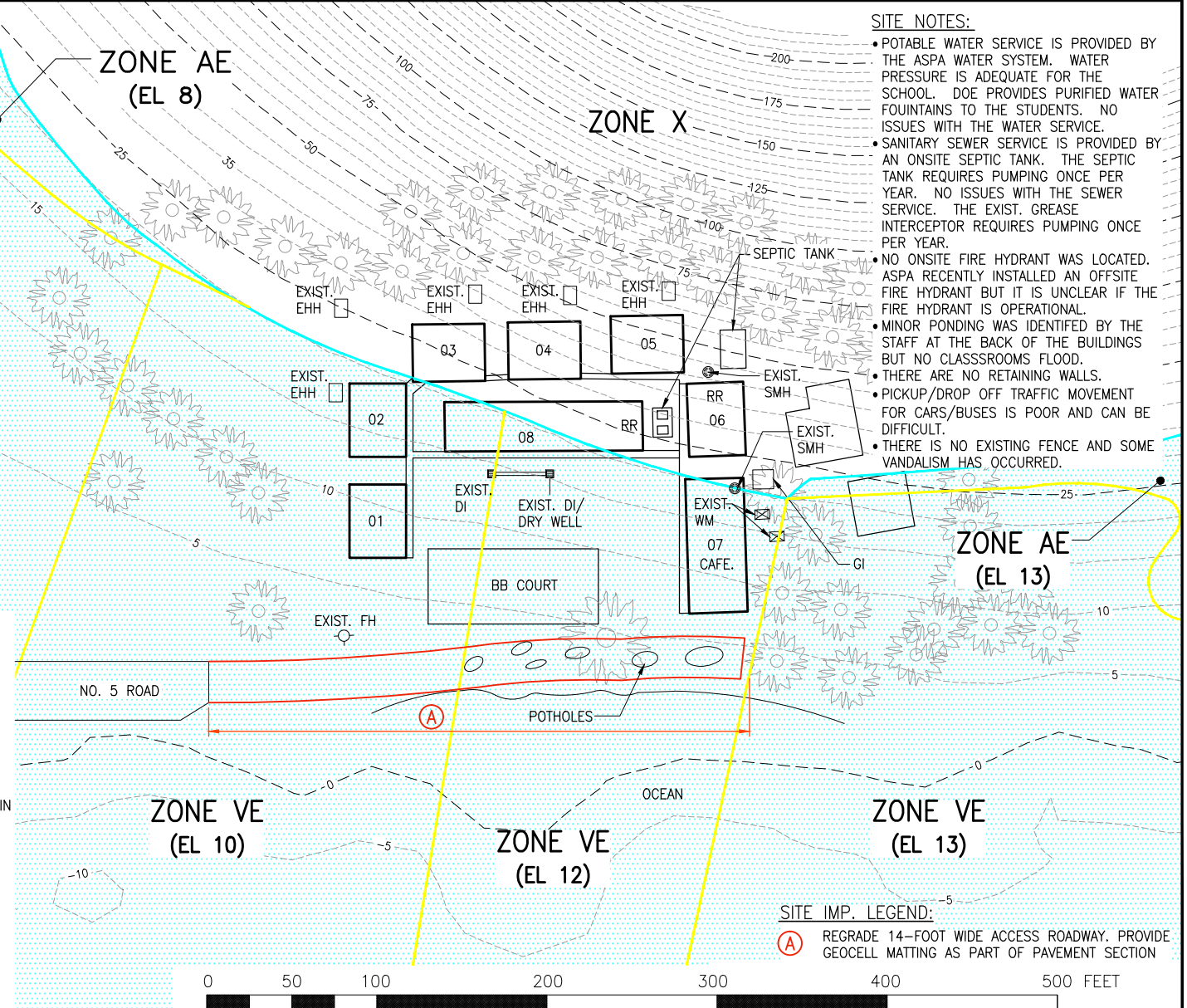
GENERAL ABBREVIATIONS

ASPA: AMERICAN SAMOA POWER AUTHORITY
 BB: BASKETBALL
 BFP: BACK FLOW PREVENTER
 CAFE: CAFETERIA
 DI: DRAIN INLET
 DOE: DEPARTMENT OF EDUCATION
 EHH: ELECTRICAL HANDHOLE
 FH: FIRE HYDRANT
 EXIST.: EXISTING
 GI: GREASE INTERCEPTOR
 GOV: GOVERNMENT
 RR: RESTROOM
 SMH: SEWER MANHOLE

LEGEND:

- GENERAL FLOW DIRECTION
- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- ZONE AE: BASE FLOOD ELEVATIONS DETERMINED.
- ZONE VE: COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATION DETERMINED.
- OTHER AREAS
- ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
- 1% ANNUAL CHANCE FLOODPLAIN BOUNDARY
- BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREA ZONES AND BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREAS OF DIFFERENT BASE FLOOD ELEVATIONS, FLOOD DEPTHS OR FLOOD VELOCITIES.
- (EL 9) BASE FLOOD ELEVATION WHERE UNIFORM WITHIN ZONE; ELEVATION IN FEET*

* REFERENCED TO THE LOCAL TIDAL DATUM.



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



MT. ALAVA ELEMENTARY SCHOOL, VATIA

FIGURE

16

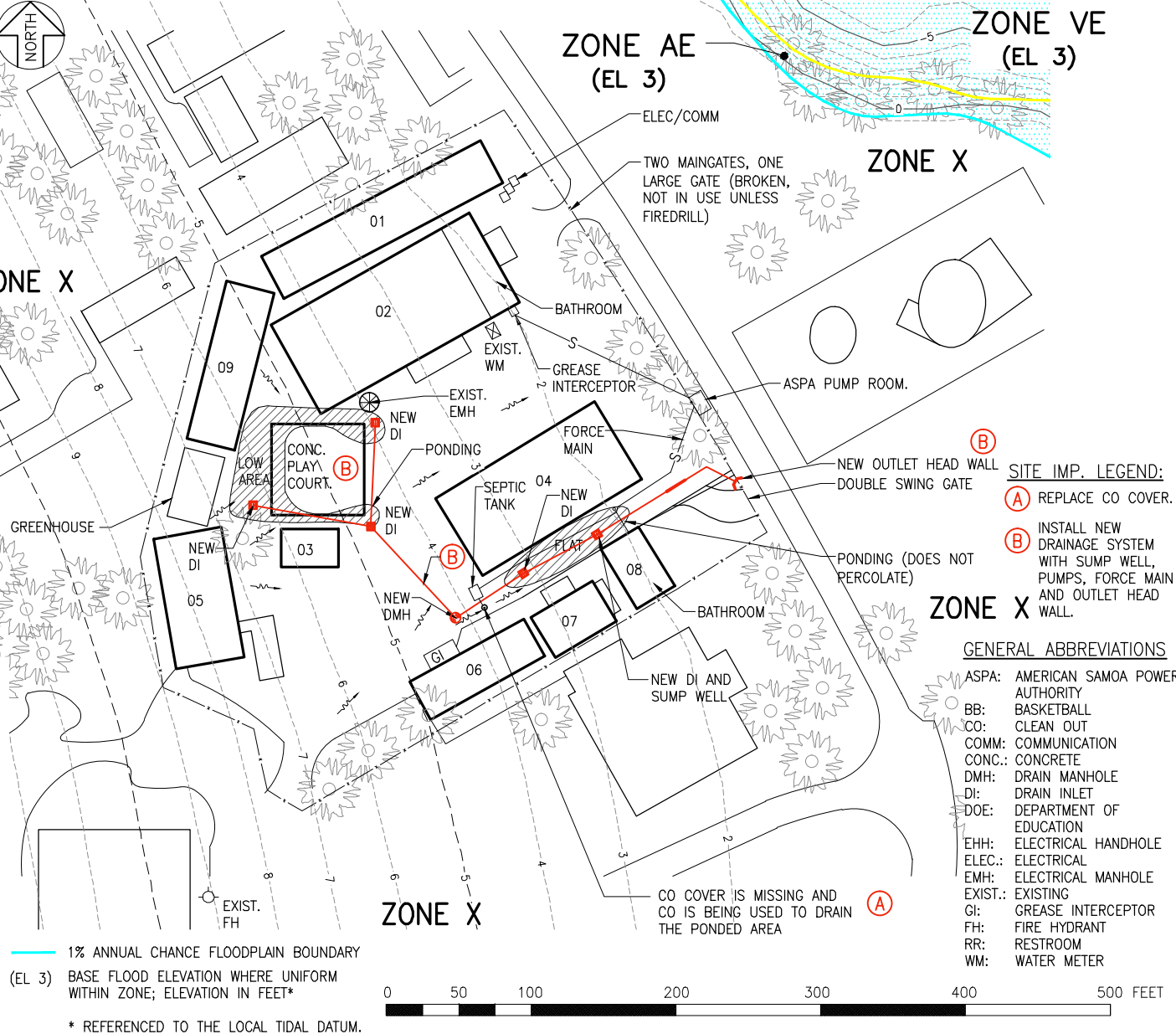
PRINCIPAL	BRIDERICK ATAFUA
ENROLLMENT	305 (9-12 GRADE)
SCHOOL OPENED	1985
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN

SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. NO ISSUES WITH THE WATER SERVICE. THE SCHOOL WAS UNDER A BOIL WATER NOTICE BY ASPA AT THE TIME OF THE VISIT (2015). THE SCHOOL LUNCH PROGRAM PROVIDES PURIFIED WATER.
- SANITARY SEWER SERVICE IS PROVIDED BY THE ASPA SEWER SYSTEM. NO ISSUES WITH THE SEWER SERVICE. THERE IS ONE BATHROOM FOR THE ENTIRE SCHOOL AND ONLY ONE MEN'S TOILET. THERE ARE TWO (2) EXIST. GREASE INTERCEPTOR'S ONSITE, ONE FOR THE COOKING CLASS KITCHEN AND ONE FOR THE CAFETERIA THAT REQUIRES PUMPING EVERY THREE MONTHS.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE FIRE HYDRANT OFFSITE BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- PONDING WAS IDENTIFIED BY STAFF AS MOST OF THE CAMPUS IS FLAT CAUSING LARGE PONDING AREAS THAT DO NOT DRAIN. AREAS AFFECTED INCLUDE THE PLAY COURT BETWEEN BUILDINGS 02 AND 03 AND IN THE AREA BETWEEN BUILDINGS 04 AND 07.
- THE AREAS BETWEEN THE BUILDINGS ARE COMPOSED OF CINDER AND CARS PARK IN FRONT OF BUILDING 02. A MAJORITY OF THE STUDENTS ARE BUSED TO SCHOOL, PICKUP/DROP OFF TRAFFIC MOVEMENT FOR CARS/BUSES IS ADEQUATE AND THERE ARE NO ISSUES.
- THE EXIST. PERIMETER FENCE AND GATES ARE DAMAGED AND SHOULD BE REPLACED.

LEGEND:

- GENERAL FLOW DIRECTION
- EXISTING PONDING
- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
 - ZONE AE: BASE FLOOD ELEVATIONS DETERMINED.
 - ZONE VE: COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATION DETERMINED.
- OTHER AREAS
 - ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
- BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREA ZONES AND BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREAS OF DIFFERENT BASE FLOOD ELEVATIONS, FLOOD DEPTHS OR FLOOD VELOCITIES.



OIA - ASSESSMENT OF BUILDINGS AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



NU'UULI VOCATIONAL/TECHNICAL HIGH SCHOOL

FIGURE

17

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	ANA FOSI
ENROLLMENT	150 (ECE-8th GRADE)
SCHOOL OPENED	1966
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



ZONE VE (EL 10)

SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. NO ISSUES WITH THE WATER SERVICE. THE SCHOOL WAS UNDER A BOIL WATER NOTICE BY ASPA AT THE TIME OF THE VISIT (2015). DOE PROVIDES PURIFIED WATER IS PROVIDED FOR THE STUDENTS. ONE (1) WATER METER WAS LOCATED ONSITE.
- SANITARY SEWER SERVICE IS PROVIDED BY FOUR (4) ONSITE SEPTIC TANKS. THE SEPTIC TANKS REQUIRED PUMPING 1-2 TIMES PER YEAR. THE BUILDING PLUMBING IS CLOGGED IN THE ECE. NO OTHER ISSUES WITH THE SEWER SERVICE. THE GREASE INTERCEPTOR IS PUMPED ONCE PER MONTH.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE STAND PIPE RISER ONSITE BUT IT IS UNCLEAR IF IT IS OPERATIONAL.
- FLOODING WAS IDENTIFIED BY STAFF AT BUILDINGS 08 AND 10. THERE IS A STREAM IN THE BACK OF THE SCHOOL BUT IT DOES NOT OVERFLOW AND EFFECT THE CAMPUS.
- PARKING FOR THE SCHOOL APPEARS TO BE INADEQUATE. A MAJORITY OF THE STUDENTS WALK TO SCHOOL AND PICKUP/DROP OFF TRAFFIC MOVEMENT FOR CARS/BUSES IS POOR AND CAN BE DIFFICULT.
- THERE IS NO EXISTING PERIMETER FENCE

LEGEND:

— GENERAL FLOW DIRECTION

EXISTING FLOODING

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD ZONE VE: COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATION DETERMINED.

(EL 10) BASE FLOOD ELEVATION WHERE UNIFORM WITHIN ZONE; ELEVATION IN FEET*

* REFERENCED TO THE LOCAL TIDAL DATUM.

0 50 100 200 300 400 500 FEET

ZONE VE (EL 10)

GENERAL ABBREVIATIONS

ARCH.: ARCHITECTURE
 ASPA: AMERICAN SAMOA POWER AUTHORITY
 BB: BASKETBALL
 BLDG.: BUILDING
 CAFE: CAFETERIA
 CONC.: CONCRETE
 ECE: EARLY CHILDHOOD EDUCATION
 FFE: FINISH FLOOR ELEVATION
 FH: FIRE HYDRANT
 RR: RESTROOM
 SMH: SEWER MANHOLE
 WM: WATER METER

PLUMBING IN ECE IS CLOGGED. NOTIFY ARCH. GROUP

ZONE VE (EL 10)

SITE IMP. LEGEND:

- (A) CREATE EARTH SWALES
- (B) LOWER GROUND IN FRONT OF CAFE. 4" BELOW FFE, SLOPE TO DRAIN
- (C) ENLARGE/REPLACE GREASE INTERCEPTOR AND SEPTIC SYSTEM
- (D) ADVISE BUILDING TEAM ECE HAS PLUMBING ISSUES



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



FIGURE

OLOMOANA ELEMENTARY SCHOOL

18

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	LABORDAY ATANOA
ENROLLMENT	1400
SCHOOL OPENED	UNKNOWN
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



GENERAL ABBREVIATIONS

ASPA: AMERICAN SAMOA POWER AUTHORITY
 CMU: CONCRETE MASONRY UNIT
 CONC.: CONCRETE
 ECE: EARLY CHILDHOOD EDUCATION
 FH: FIRE HYDRANT
 GI: GREASE INTERCEPTOR
 RW: RETAINING WALL
 RR: RESTROOM
 SMH: SEWER MANHOLE
 WM: WATER METER

LEGEND:

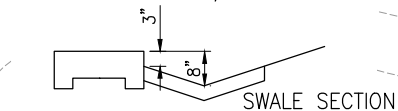
- GENERAL FLOW DIRECTION
- EXISTING PONDING
- EXISTING FLOODING
- ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

SITE NOTES:

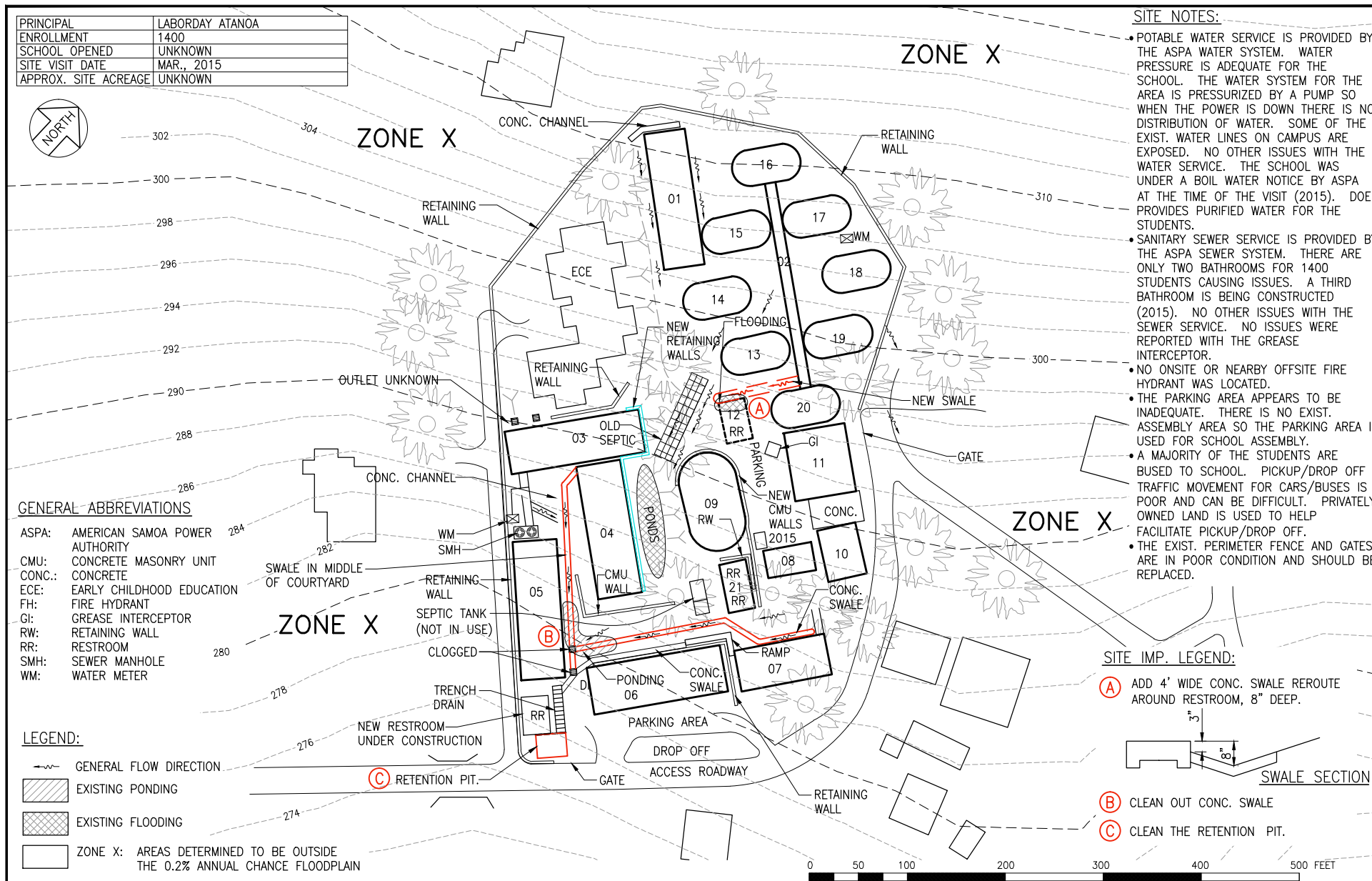
- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. THE WATER SYSTEM FOR THE AREA IS PRESSURIZED BY A PUMP SO WHEN THE POWER IS DOWN THERE IS NO DISTRIBUTION OF WATER. SOME OF THE EXIST. WATER LINES ON CAMPUS ARE EXPOSED. NO OTHER ISSUES WITH THE WATER SERVICE. THE SCHOOL WAS UNDER A BOIL WATER NOTICE BY ASPA AT THE TIME OF THE VISIT (2015). DOE PROVIDES PURIFIED WATER FOR THE STUDENTS.
- SANITARY SEWER SERVICE IS PROVIDED BY THE ASPA SEWER SYSTEM. THERE ARE ONLY TWO BATHROOMS FOR 1400 STUDENTS CAUSING ISSUES. A THIRD BATHROOM IS BEING CONSTRUCTED (2015). NO OTHER ISSUES WITH THE SEWER SERVICE. NO ISSUES WERE REPORTED WITH THE GREASE INTERCEPTOR.
- NO ONSITE OR NEARBY OFFSITE FIRE HYDRANT WAS LOCATED.
- THE PARKING AREA APPEARS TO BE INADEQUATE. THERE IS NO EXIST. ASSEMBLY AREA SO THE PARKING AREA IS USED FOR SCHOOL ASSEMBLY.
- A MAJORITY OF THE STUDENTS ARE BUSSED TO SCHOOL. PICKUP/DROP OFF TRAFFIC MOVEMENT FOR CARS/BUSES IS POOR AND CAN BE DIFFICULT. PRIVATELY OWNED LAND IS USED TO HELP FACILITATE PICKUP/DROP OFF.
- THE EXIST. PERIMETER FENCE AND GATES ARE IN POOR CONDITION AND SHOULD BE REPLACED.

SITE IMP. LEGEND:

- (A) ADD 4' WIDE CONC. SWALE REROUTE AROUND RESTROOM, 8" DEEP.



- (B) CLEAN OUT CONC. SWALE
- (C) CLEAN THE RETENTION PIT.



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



FIGURE

PAVAIA'I ELEMENTARY SCHOOL

19

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	SIA UPERESA
ENROLLMENT	968
SCHOOL OPENED	1957
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN

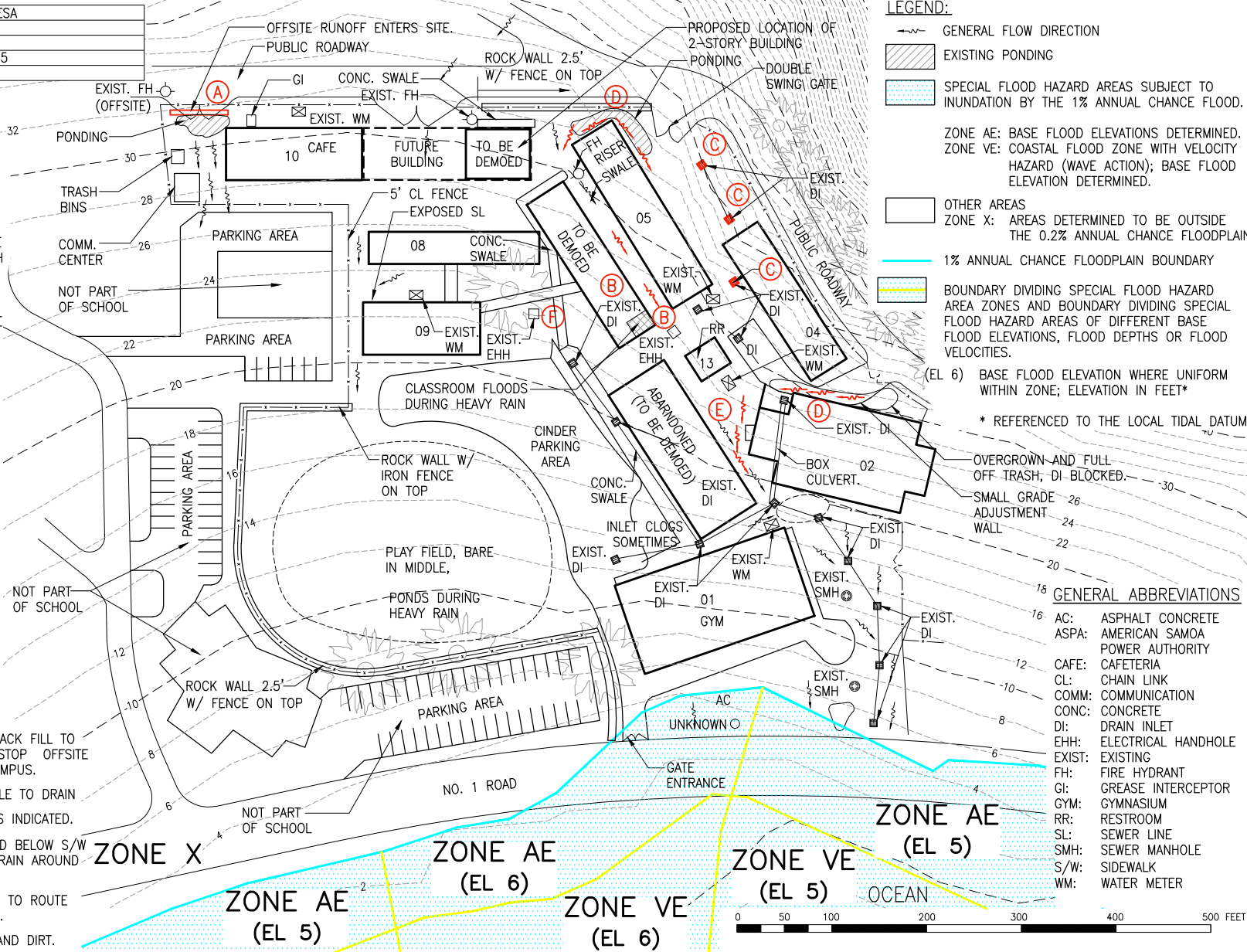


SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS LOW FOR THE SCHOOL FROM TIME TO TIME. NO OTHER ISSUES WITH THE WATER SERVICE. THE SCHOOL WAS UNDER A BOIL WATER NOTICE BY ASPA AT THE TIME OF THE VISIT (2015). DOE PROVIDES DRINKING WATER FOR THE STUDENTS.
- SANITARY SEWER SERVICE IS PROVIDED BY THE ASPA SEWER SYSTEM. NO ISSUES WITH THE SEWER SERVICE. THERE IS COOKING ONSITE DURING BREAKFAST AND LUNCH. THE GREASE INTERCEPTOR IS PUMPED 3-4 TIMES A YEAR.
- THERE ARE TWO (2) ONSITE FIRE HYDRANTS AND ONE OFFSITE FH. BUT IT IS UNCLEAR IF THE FIRE HYDRANTS ARE OPERATIONAL.
- PONDING WAS IDENTIFIED AT VARIOUS AREAS OF THE SCHOL BUT NO CLASSROOMS FLOOD. OFFSITE RUNON ENTERS THE CAMPUS WEST OF BUILDING 01 (CAFETERIA).
- THE EXIST. FENCING IS IN FAIR CONDITION AND APPEARS TO BE ADEQUATE.

SITE IMP. LEGEND:

- (A) ADD SPEED BUMP THEN BACK FILL TO REMOVE POND. BUMP TO STOP OFFSITE WATER FROM ENTERING CAMPUS.
- (B) CUT GRASS, MAINTAIN SWALE TO DRAIN
- (C) CLEAN AND MAINTAIN DI AS INDICATED.
- (D) CLEAN AND LOWER GROUND BELOW S/W EDGE. SLOPE SWALE TO DRAIN AROUND BUILDING.
- (E) CREATE SWALE ALONG PAD TO ROUTE RUNOFF AWAY FROM DOOR.
- (F) CLEAN SWALE OF ROCKS AND DIRT.



OIA - ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



FIGURE

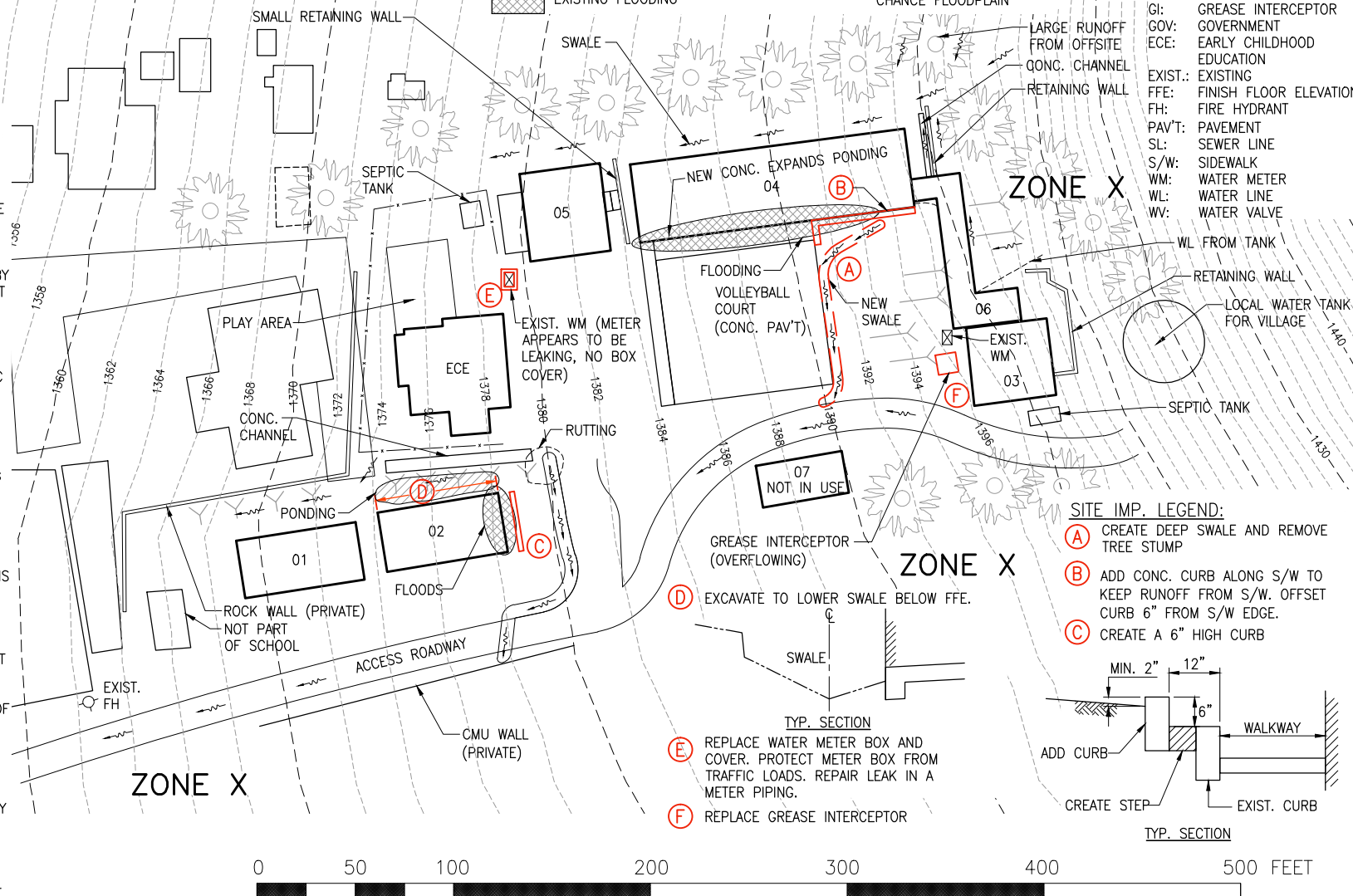
SAMOANA HIGH SCHOOL

20

GENERAL ABBREVIATIONS

AC: ASPHALT CONCRETE
ASPA: AMERICAN SAMOA POWER
AUTHORITY
CONC.: CONCRETE
EHH: ELECTRICAL HANDHOLE
GI: GREASE INTERCEPTOR
GOV: GOVERNMENT
ECE: EARLY CHILDHOOD
EDUCATION
EXIST.: EXISTING
FFE: FINISH FLOOR ELEVATION
FH: FIRE HYDRANT
PAV'T: PAVEMENT
SL: SEWER LINE
S/W: SIDEWALK
WM: WATER METER
WL: WATER LINE
WV: WATER VALVE

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS GOOD FOR THE SCHOOL. THE WATER METER ADJACENT TO THE ECE WAS EXPOSED TO TRAFFIC LOADING AND WAS MISSING A COVER. THE SCHOOL WAS UNDER A BOIL WATER NOTICE BY ASPA AT THE TIME OF THE VISIT (2015). DOE PROVIDES DRINKING WATER TO THE STUDENTS.
- SANITARY SEWER SERVICE IS PROVIDED BY AN ONSITE SEPTIC TANK. THE SEPTIC TANK REQUIRES PUMPING THREE TO FOUR TIMES PER YEAR. NO ISSUES WITH THE SEWER SERVICE. THE EXIST. GREASE INTERCEPTOR WAS OVERFLOWING AND REQUIRES PUMPING ONCE OR TWICE PER MONTH AND SHOULD BE REPLACED.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE OFFSITE FIRE HYDRANT BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- FLOODING WAS IDENTIFIED BY STAFF. A MAJORITY OF THE CAMPUS DRAINAGE IS GOOD BUT APPROXIMATELY TWO TIMES PER YEAR DURING HEAVY RAINS THE ECE FLOODS NEAR THE BACK OF THE BATHROOM AND BUILDINGS 02 AND 04 FLOOD.
- THERE IS NO DESIGNATED PARKING AREA AND STAFF CURRENTLY PARK BY THE ADJACENT HOUSES. A MAJORITY OF THE STUDENTS WALK. PICKUP/DROP OFF TRAFFIC MOVEMENT IS ADEQUATE AND THERE ARE NO ISSUES.
- THERE IS NO PERIMETER FENCE



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



SILIAGA ELEMENTARY SCHOOL

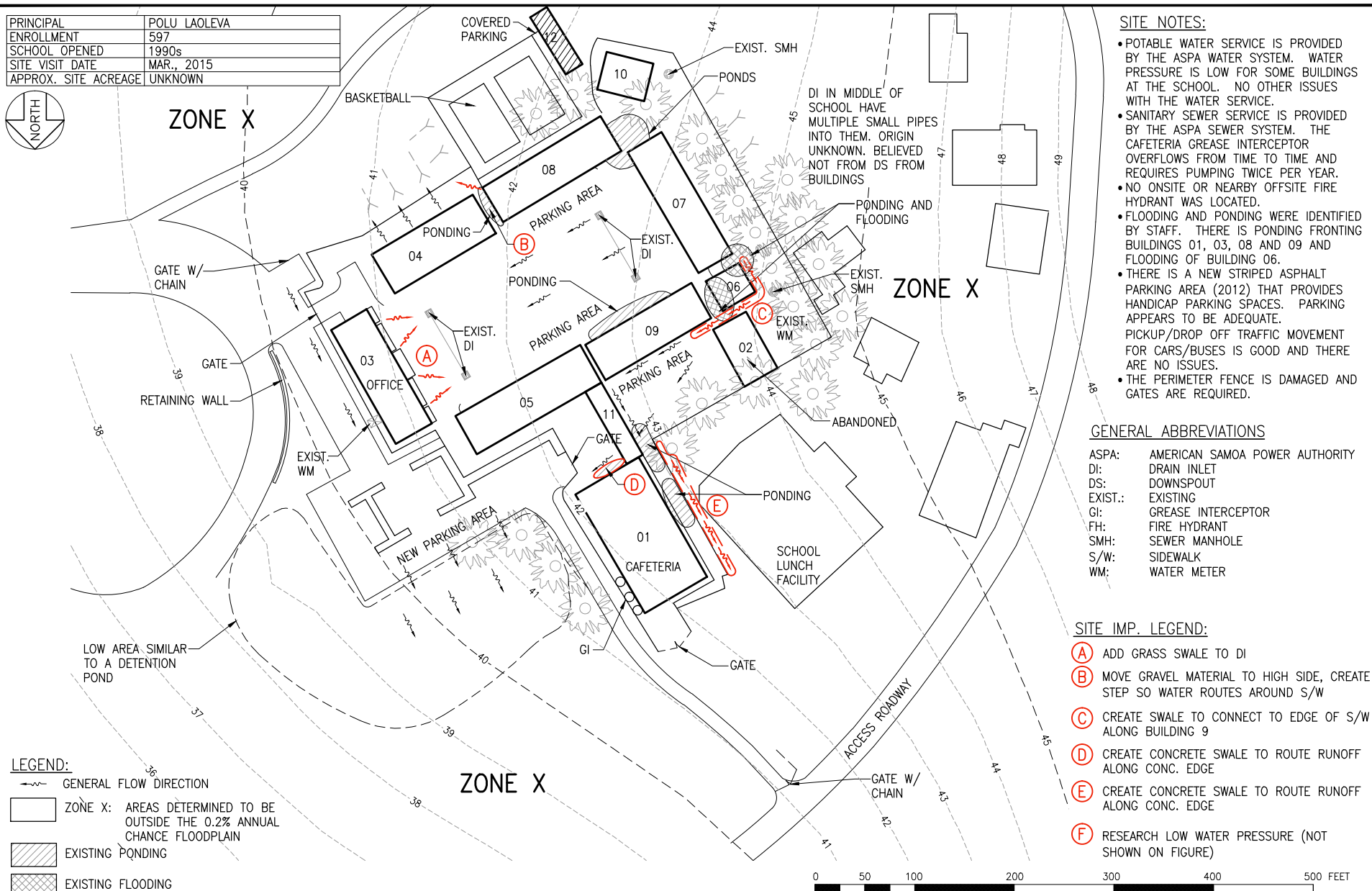


FIGURE

21

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	POLU LAOLEVA
ENROLLMENT	597
SCHOOL OPENED	1990s
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



FIGURE








TAFUNA ELEMENTARY SCHOOL

22

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	BEAUTY TUIASOSOPO
ENROLLMENT	1216
SCHOOL OPENED	1982
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN

LEGEND:

-  SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
-  OTHER AREAS
-  1% ANNUAL CHANCE FLOODPLAIN BOUNDARY
-  BASE FLOOD ELEVATION LINE AND VALUE; ELEVATION IN FEET*
-  GENERAL FLOW DIRECTION
-  EXISTING PONDING
-  EXISTING FLOODING

SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. NO ISSUES WITH THE WATER SERVICE.
- FOUR (4) WMS FOR THE CAMPUS WERE LOCATED, BUT TWO OF THEM ARE NOT IN USE. THE WM FOR THE BATHROOM AND CAFETERIA IS SHARED SO NEITHER CAN BE SHUT OFF INDEPENDENTLY.
- SANITARY SEWER SERVICE IS PROVIDED BY THE ASPA SEWER SYSTEM. NO ISSUES WITH THE SEWER SERVICE. THE GREASE INTERCEPTOR IS PUMPED 3-4 TIMES A YEAR.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE OFFSITE FIRE HYDRANT ON THE NEARBY ROAD BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- FLOODING AND PONDING WERE IDENTIFIED BY STAFF. BUILDINGS 12, 13 AND 14 FLOOD AND VARIOUS AREAS POND. MAINTENANCE OF THE TRENCH DRAIN ADJACENT TO BUILDING 04 IS ESSENTIAL.
- THERE IS NO DESIGNATED PARKING AREA SO STAFF AND VISITORS PARK BETWEEN THE BUILDINGS. PICKUP/DROP OFF TRAFFIC MOVEMENT FOR CARS/BUSES IS FAIR AND OPERATES OKAY. THE GRAVEL/CINDER ROAD SURFACE WAS REROLLED IN MARCH 2015, BUT THE SURFACE DEGRADES QUICKLY AND A MORE PERMANENT SOLUTION SHOULD BE IMPLEMENTED.
- THE EXISTING FENCE IS IN POOR CONDITION AND SHOULD BE REPLACED.







ZONE X

ZONE AE

ZONE X

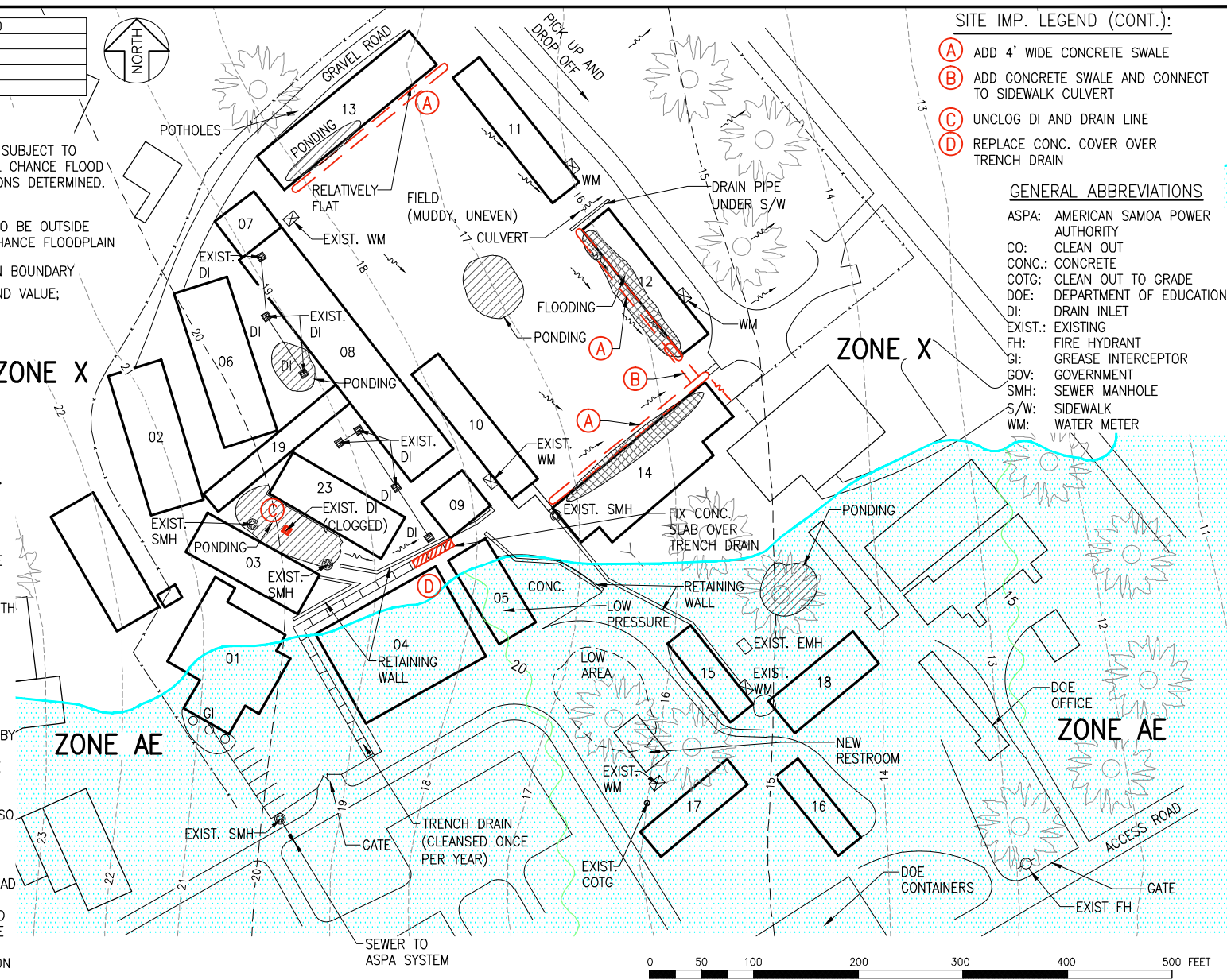
ZONE AE

SITE IMP. LEGEND (CONT.):

-  ADD 4' WIDE CONCRETE SWALE
-  ADD CONCRETE SWALE AND CONNECT TO SIDEWALK CULVERT
-  UNCLOG DI AND DRAIN LINE
-  REPLACE CONC. COVER OVER TRENCH DRAIN

GENERAL ABBREVIATIONS

- ASPA: AMERICAN SAMOA POWER AUTHORITY
- CO: CLEAN OUT
- CONC.: CONCRETE
- COTG: CLEAN OUT TO GRADE
- DOE: DEPARTMENT OF EDUCATION
- DI: DRAIN INLET
- EXIST.: EXISTING
- FH: FIRE HYDRANT
- GI: GREASE INTERCEPTOR
- GOV: GOVERNMENT
- SMH: SEWER MANHOLE
- S/W: SIDEWALK
- WM: WATER METER



OIA - ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
TUTUILA



TAFUNA HIGH SCHOOL

FIGURE

23

PRINCIPAL	ASENATI UMI
ENROLLMENT	105
SCHOOL OPENED	2008
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



ZONE VE
(EL 14)

SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. THE SCHOOL LUNCH PROGRAM PROVIDES BOTTLED WATER FOR CONSUMPTION. NO ISSUES WITH THE WATER SERVICE.
- SANITARY SEWER SERVICE IS PROVIDED BY AN ONSITE SEPTIC TANK. NO PUMPING IS REQUIRED FOR THE SEPTIC TANK. NO ISSUES WITH THE SEWER SERVICE. THE EXIST. GREASE INTERCEPTOR DISCHARGES TO THE EAST AND THE DISCHARGE POINT SMELLS. DPW SHOULD CHECK THE AS-BUILT CONSTRUCTION DRAWINGS OF THE GREASE INTERCEPTOR TO MAKE SURE IT WAS INSTALLED AND FUNCTIONS PROPERLY.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS AN EXIST. STANDPIPE RISER BUT IT IS UNCLEAR IF THE RISER IS OPERATIONAL.
- PONDING WAS IDENTIFIED BY THE STAFF AT THE BACK OF SOME OF THE BUILDINGS BUT NO CLASSROOMS FLOOD.
- THE ROOF RUNOFF FROM THE HIP OF BUILDING 7 IS DAMAGING THE BATHROOM DOORS IN BUILDING 2. THE ROOF RUNOFF SHOULD BE REROUTED.
- THERE IS NO EXISTING PERIMETER FENCE.
- THE SCHOOL BUS HAS A MECHANICAL PROBLEM AND DOES NOT PROVIDE SERVICE AT THE TIME OF THE VISIT (2015).

LEGEND:

- GENERAL FLOW DIRECTION
- EXISTING PONDING
- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- ZONE AE: BASE FLOOD ELEVATIONS DETERMINED.
- ZONE VE: COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATION DETERMINED.

ZONE VE
(EL 16)

BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREA ZONES AND BOUNDARY DIVIDING SPECIAL FLOOD HAZARD AREAS OF DIFFERENT BASE FLOOD ELEVATIONS, FLOOD DEPTHS OR FLOOD VELOCITIES.

(EL 16): BASE FLOOD ELEVATION VALUE WHERE UNIFORM WITHIN ZONE; ELEVATION IN FEET*

* REFERENCED TO THE LOCAL TIDAL DATUM

GENERAL ABBREVIATIONS

ASPA: AMERICAN SAMOA POWER AUTHORITY
 CONC.: CONCRETE
 COTG: CLEAN OUT TO GRADE
 DPW: DEPARTMENT OF PUBLIC WORKS
 EHH: ELECTRICAL HANDHOLE
 FH: FIRE HYDRANT
 GOV: GOVERNMENT
 HS: HIGH SCHOOL
 RR: RESTROOM
 WV: WATER VALVE

SITE IMP. LEGEND:

- (A) ADD GUTTERS TO EDGE OF BUILDING 07
- (B) CONNECT BUILDINGS BY COVERED WALKWAY (REQUESTED BY PRINCIPAL)
- (C) DPW TO CHECK PLUMBING CONSTRUCTION DRAWINGS FOR GREASE INTERCEPTOR (NOT SHOWN ON FIGURE)
- (D) REPLACE GREASE INTERCEPTOR

0 50 100 200 300 400 500 FEET



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
AUNU'U



A.P. LUTALI ELEMENTARY SCHOOL, AUNUU ISLAND



FIGURE

24

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

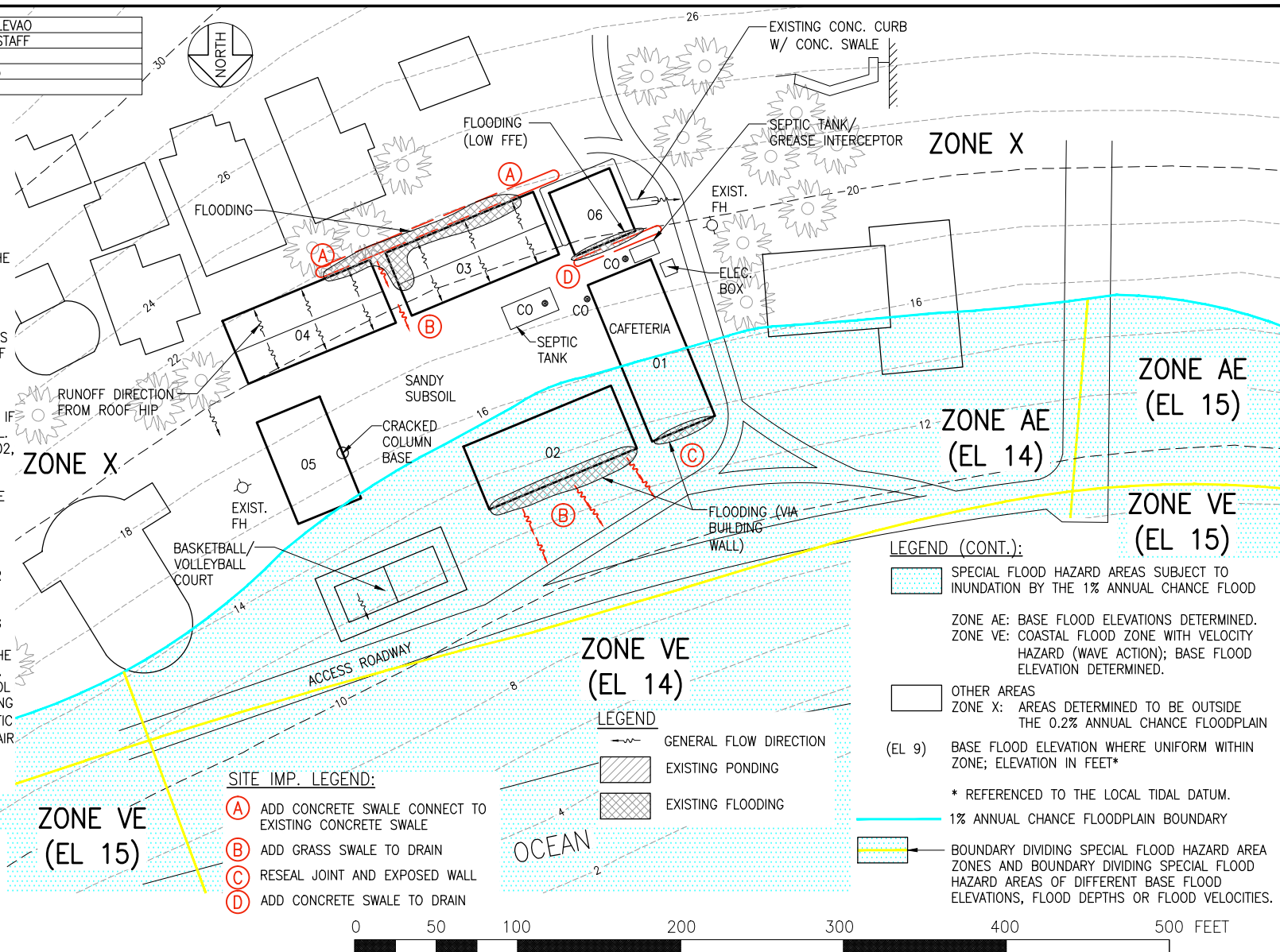
PRINCIPAL	MAXINE SALEVAO
ENROLLMENT	65 + 14 STAFF
SCHOOL OPENED	UNKNOWN
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN

SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. NO ISSUES WITH THE WATER SERVICE.
- SANITARY SEWER SERVICE IS PROVIDED BY TWO (2) ONSITE SEPTIC TANKS. THE SEPTIC TANK FOR EITHER THE BATHROOM OR THE CAFETERIA SMELLS. NO OTHER ISSUES WITH THE SEWER SERVICE. THERE IS NO ON-ISLAND PUMP TRUCK SERVICE. NO ISSUES WITH THE GREASE INTERCEPTOR. DOE IS RESPONSIBLE FOR MAINTENANCE OF THE GREASE INTERCEPTOR.
- NO ONSITE FIRE HYDRANT WAS LOCATED. THERE IS ONE OFFSITE FIRE HYDRANT BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- FLOODING OCCURS AT BUILDINGS 02, 03, 04 AND 06.
- PROBLEMS ARE CAUSED BY THE SCHOOLS CLOSE PROXIMITY TO THE OCEAN. TSUNAMI AND HURRICANE FORCES CAN PUSH UP TO 4 FEET OF SAND INTO THE CLASSROOMS AND HEAVY WINDS CAN CAUSE ISSUES TO THE CLASSROOMS NEAR THE OCEAN.
- THERE ARE NO RETAINING WALLS.
- THERE IS NO DESIGNATED PARKING AREA BUT THERE ARE NO ISSUES WITH PARKING. A MAJORITY OF THE STUDENTS ARE BUSED TO SCHOOL. THE ELEMENTARY AND HIGH SCHOOL SHARE BUSES WHICH CAUSES TIMING ISSUES. PICKUP/DROP OFF TRAFFIC MOVEMENT FOR CARS/BUSES IS FAIR AND THERE ARE NO ISSUES.
- THERE IS NO EXISTING PERIMETER FENCE.

GENERAL ABBREVIATIONS

CAFE:	CAFETERIA
CO:	CLEAN OUT
CONC.:	CONCRETE
ELEC.:	ELECTRICAL
FH:	FIRE HYDRANT
FFE:	FINISH FLOOR ELEVATION
GOV:	GOVERNMENT



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
MANU'A



FALEASAO ELEMENTARY SCHOOL, MANUA (TAU)



FIGURE

25

PRINCIPAL	FAANOI MOSE
ENROLLMENT	41
SCHOOL OPENED	1914, REBUILT IN 1988-1989
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN

SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. NO ISSUES WITH THE WATER SERVICE.
- SANITARY SEWER SERVICE IS PROVIDED BY AN ONSITE SEPTIC TANK. NO ISSUES WITH THE SEWER SERVICE. THERE IS NO ON-ISLAND PUMP TRUCK SERVICE. THE SCHOOL PROVIDES A LUNCH PROGRAM SERVICE. THE GREASE INTERCEPTOR OVERFLOWS FROM TIME TO TIME. DOE IS RESPONSIBLE FOR MAINTENANCE OF THE GREASE INTERCEPTOR.
- NO ONSITE FIRE HYDRANT WAS LOCATED. ONE OFFSITE FIRE HYDRANT ALONG THE ACCESS ROADWAY WAS LOCATED BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- THERE ARE NO ISSUES WITH PARKING. A MAJORITY OF THE STUDENTS WALK TO SCHOOL. PICKUP/DROP OFF TRAFFIC MOVEMENT FOR CARS/BUSES IS FAIR AND THERE ARE NO ISSUES.
- THERE IS NO EXISTING PERIMETER FENCE.
- THE TOWERS FOR THE CABLE/TV ARE CLOSE TO THE CLASSROOM BUILDINGS AND THERE IS NO FENCE PROTECTION SURROUNDING THE TOWERS.

GENERAL ABBREVIATIONS

ASPA:	AMERICAN SAMOA POWER AUTHORITY
COTG:	CLEAN OUT TO GRADE
COMM.:	COMMUNICATION
DW:	DRIVEWAY
ECE:	EARLY CHILDHOOD EDUCATION
EMH:	ELECTRICAL MANHOLE
FFE:	FINISH FLOOR ELEVATION
FH:	FIRE HYDRANT
GOV:	GOVERNMENT
HC:	HANDICAP

LEGEND:

— GENERAL FLOW DIRECTION

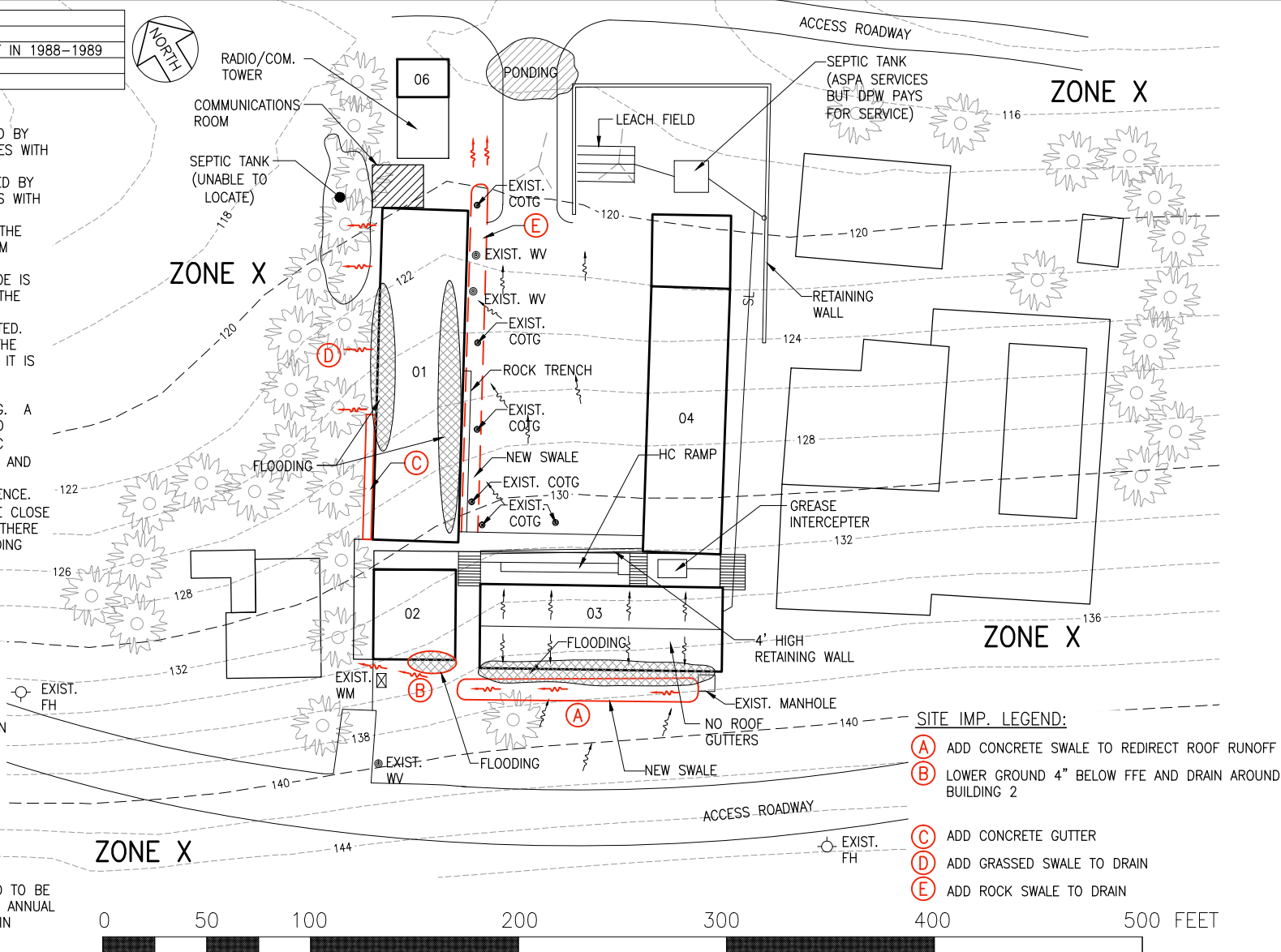
□ ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

▨ EXISTING PONDING

▩ EXISTING FLOODING

ZONE X

0 50 100 200 300 400 500 FEET



SITE IMP. LEGEND:

- (A) ADD CONCRETE SWALE TO REDIRECT ROOF RUNOFF
- (B) LOWER GROUND 4" BELOW FFE AND DRAIN AROUND BUILDING 2
- (C) ADD CONCRETE GUTTER
- (D) ADD GRASSED SWALE TO DRAIN
- (E) ADD ROCK SWALE TO DRAIN



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
MANU'A



FITIUTA ELEMENTARY SCHOOL

FIGURE

26

DISCLAIMER: SITE PLAN FEATURES ARE CONCEPTUAL AND NOT INTENDED FOR DESIGN PURPOSES
ELEVATION CONTOURS ARE PROVIDED BY GOOGLE EARTH

PRINCIPAL	PATRICIA FUIAVA
ENROLLMENT	68
SCHOOL OPENED	1966
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN

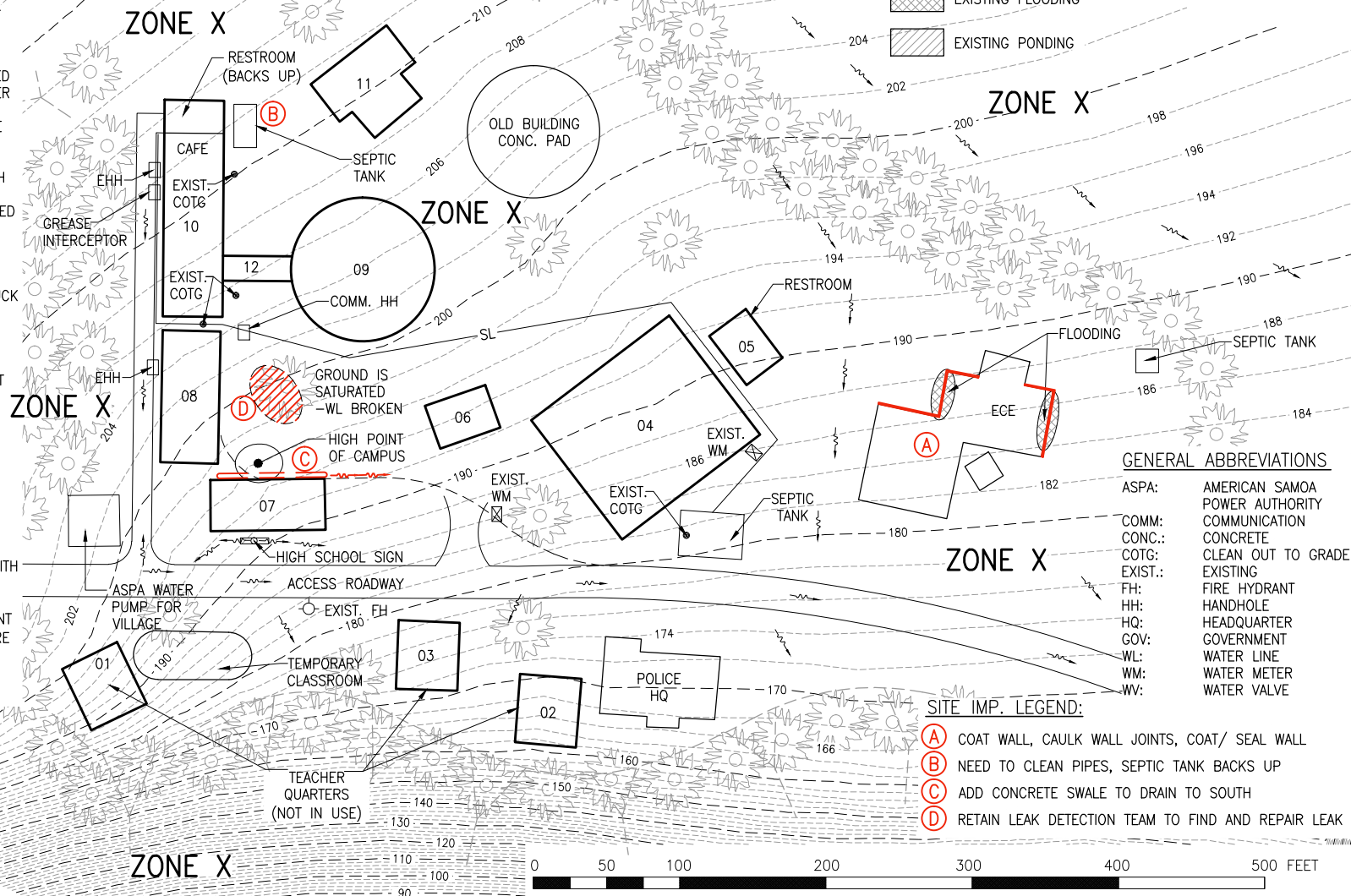


SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. THE WATER LINES MAY BE BROKEN AS AN AREA SOUTH OF BUILDING 08 AS AREA IS ALWAYS SATURATED. NO OTHER ISSUES WITH THE WATER SERVICE.
- SANITARY SEWER SERVICE IS PROVIDED BY AN ONSITE SEPTIC TANK. THE SEWER PIPING POSSIBLY CAUSES BACKUPS TO THE BATHROOMS IN BUILDINGS 05, 10 AND THE ECE. THERE IS NO ON-ISLAND PUMP TRUCK SERVICE. NO ISSUES WITH THE GREASE INTERCEPTOR. DOE IS RESPONSIBLE FOR MAINTENANCE OF THE GREASE INTERCEPTOR.
- THERE IS ONE ONSITE FIRE HYDRANT ALONG THE ACCESS ROAD BUT IT IS UNCLEAR IF THE FIRE HYDRANT IS OPERATIONAL.
- THE ECE FLOODS FROM RAINFALL INFILTRATING THE BUILDING WALL. THERE IS STANDING WATER AND THE GROUND IS SATURATED FOR SOME AREAS OF THE CAMPUS.
- THERE ARE NO RETAINING WALLS.
- THERE IS NO DESIGNATED PARKING AREA BUT THERE ARE NO ISSUES WITH PARKING. A MAJORITY OF THE STUDENTS ARE BUSED TO SCHOOL. PICKUP/DROP OFF TRAFFIC MOVEMENT FOR CARS/BUSES IS FAIR AND THERE ARE NO ISSUES.
- THERE IS NO EXISTING PERIMETER FENCE.

LEGEND:

- GENERAL FLOW DIRECTION
- ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
- ▨ EXISTING FLOODING
- ▩ EXISTING PONDING



GENERAL ABBREVIATIONS

ASPA:	AMERICAN SAMOA POWER AUTHORITY
COMM:	COMMUNICATION
CONC.:	CONCRETE
COTG:	CLEAN OUT TO GRADE
EXIST.:	EXISTING
FH:	FIRE HYDRANT
HH:	HANDHOLE
HQ:	HEADQUARTER
GOV:	GOVERNMENT
WL:	WATER LINE
WM:	WATER METER
WV:	WATER VALVE

SITE IMP. LEGEND:

- (A) COAT WALL, CAULK WALL JOINTS, COAT/ SEAL WALL
- (B) NEED TO CLEAN PIPES, SEPTIC TANK BACKS UP
- (C) ADD CONCRETE SWALE TO DRAIN TO SOUTH
- (D) RETAIN LEAK DETECTION TEAM TO FIND AND REPAIR LEAK



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
MANU'A



FIGURE

MANU'A HIGH SCHOOL, MANUA (TAU)

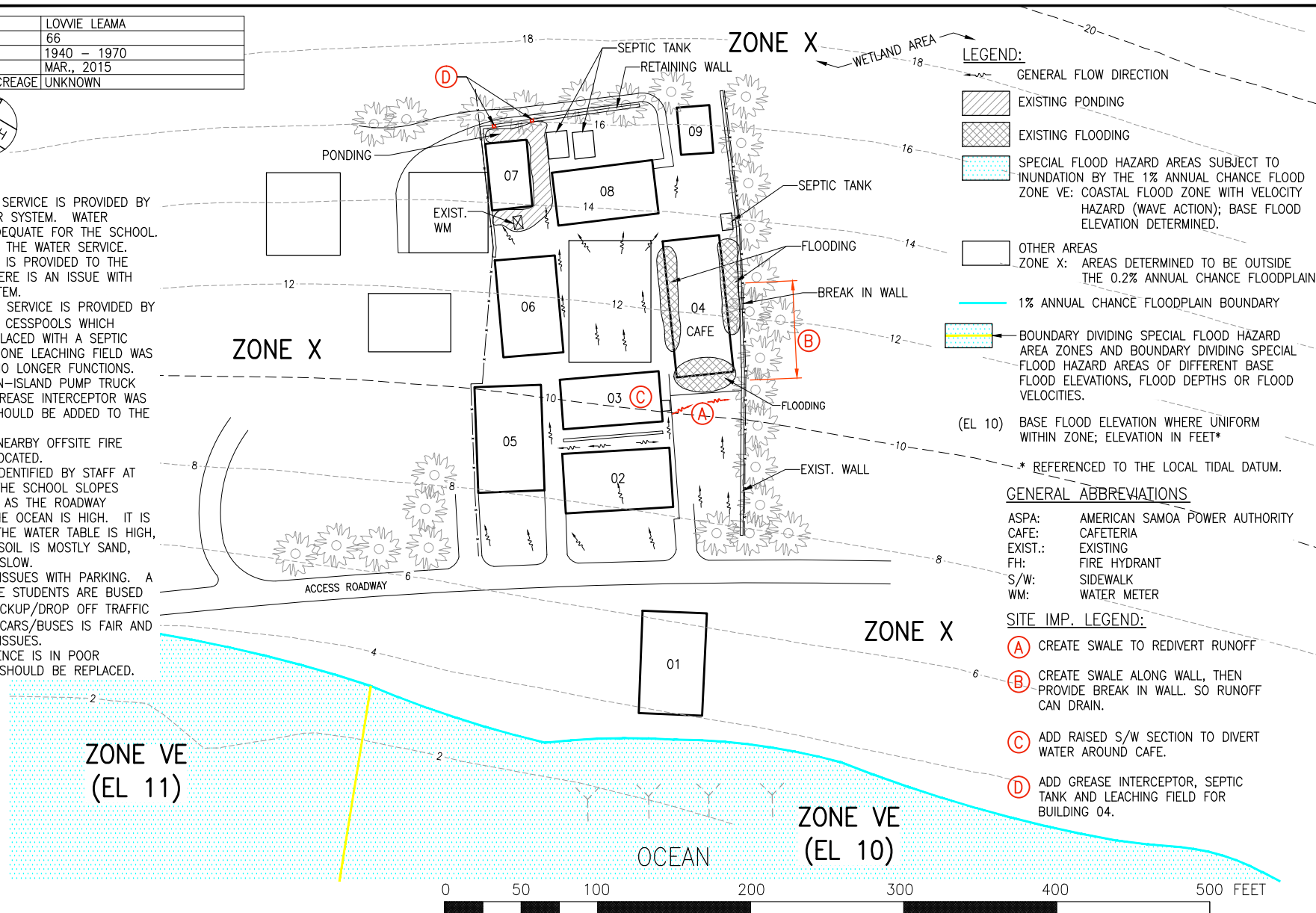
27

PRINCIPAL	LOVIE LEAMA
ENROLLMENT	66
SCHOOL OPENED	1940 – 1970
SITE VISIT DATE	MAR., 2015
APPROX. SITE ACREAGE	UNKNOWN



SITE NOTES:

- POTABLE WATER SERVICE IS PROVIDED BY THE ASPA WATER SYSTEM. WATER PRESSURE IS ADEQUATE FOR THE SCHOOL. NO ISSUES WITH THE WATER SERVICE. DRINKING WATER IS PROVIDED TO THE STUDENTS IF THERE IS AN ISSUE WITH THE WATER SYSTEM.
- SANITARY SEWER SERVICE IS PROVIDED BY TWO (2) ONSITE CESSPOOLS WHICH SHOULD BE REPLACED WITH A SEPTIC TANK SYSTEM. ONE LEACHING FIELD WAS ADDED BUT IT NO LONGER FUNCTIONS. THERE IS NO ON-ISLAND PUMP TRUCK SERVICE. NO GREASE INTERCEPTOR WAS LOCATED AND SHOULD BE ADDED TO THE SCHOOL.
- NO ONSITE OR NEARBY OFFSITE FIRE HYDRANT WAS LOCATED.
- FLOODING WAS IDENTIFIED BY STAFF AT BUILDING 04. THE SCHOOL SLOPES FRONT TO BACK AS THE ROADWAY ADJACENT TO THE OCEAN IS HIGH. IT IS BELIEVED THAT THE WATER TABLE IS HIGH, ALTHOUGH THE SOIL IS MOSTLY SAND, INFILTRATION IS SLOW.
- THERE ARE NO ISSUES WITH PARKING. A MAJORITY OF THE STUDENTS ARE BUSED TO SCHOOL. PICKUP/DROP OFF TRAFFIC MOVEMENT FOR CARS/BUSES IS FAIR AND THERE ARE NO ISSUES.
- THE EXISTING FENCE IS IN POOR CONDITION AND SHOULD BE REPLACED.



OIA – ASSESSMENT OF BUILDINGS
AND CLASSROOMS
AMERICAN SAMOA
MANU'A



OLOSEGA ELEMENTARY SCHOOL

FIGURE

28