

NO. 5



REPUBLIC OF KENYA
KENYA POWER COMPANY LIMITED

FEASIBILITY STUDY
ON
MAGWAGWA HYDROELECTRIC POWER
DEVELOPMENT PROJECT

FINAL REPORT
DATA BOOK (1)

OCTOBER 1991

JAPAN INTERNATIONAL COOPERATION AGENCY
NAIROBI OFFICE
P.O. BOX 80372
NAIROBI, KENYA
TOKYO HEAD OFFICE
P.O. BOX 618, SHINJUKU
TOKYO, JAPAN

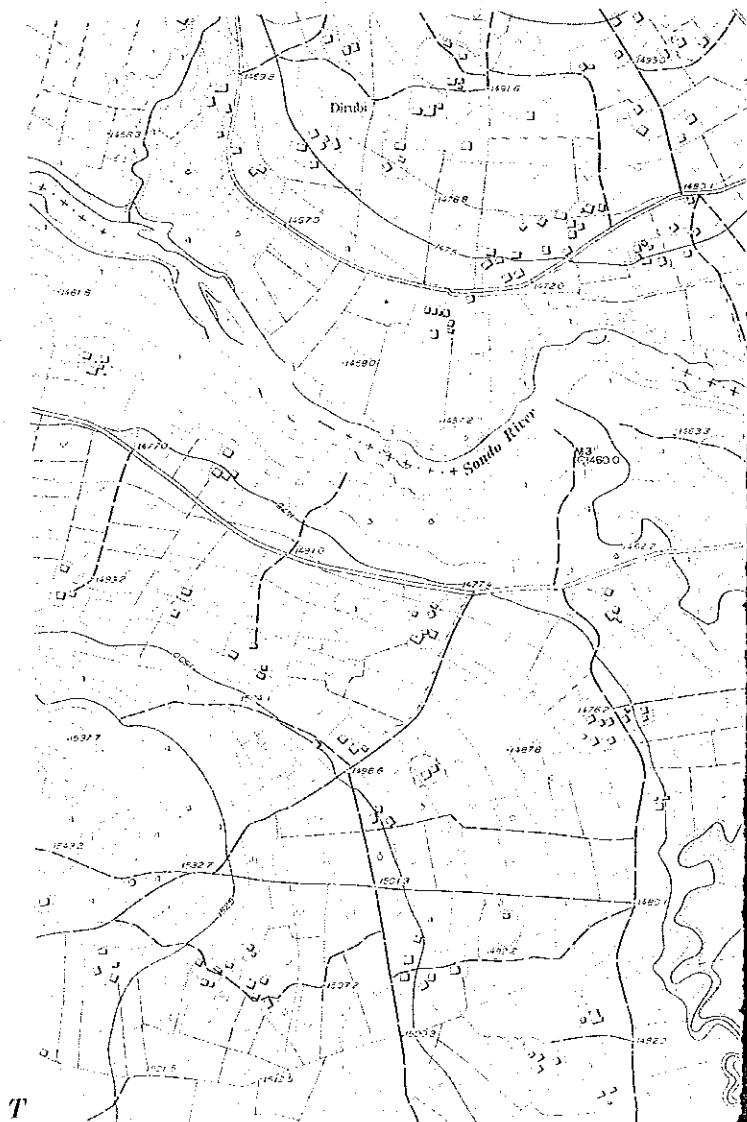


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KISUMU DISTRICT



NYANZA PROVINCE

HOMA BAY DISTRICT

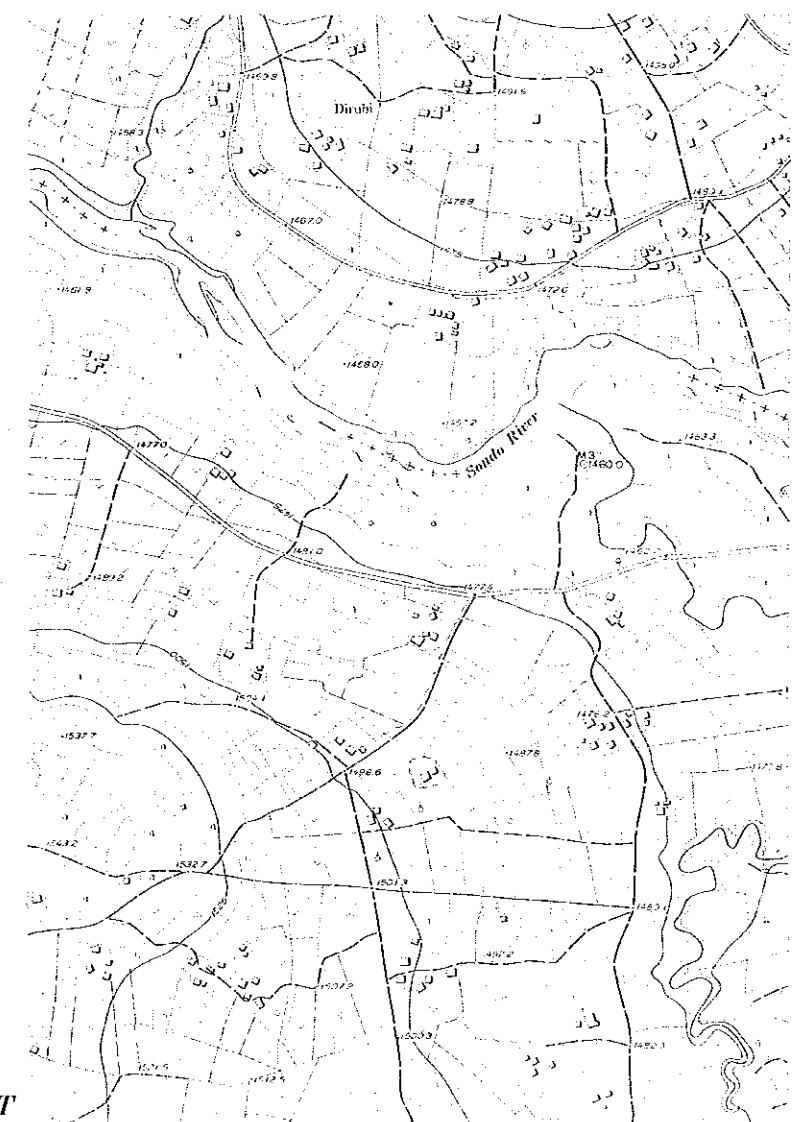
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LEGEND

Buildings	
Mosk, Church, School	
Railway	
(Terra)	
Road (Earth Road)	
Tracks (Foot Paths and Other Tracks)	
Row of Trees	
Bridge, Culvert	
River	
Irrigation Canal	
Lake or Pond	
Contours	
Depression	
Trigonometrical Station (S.K.)	
Trigonometrical Station (G.P.S. POINT)	
Bench Mark	
Spot Leveling	
Spot Height	
Sluice Gate (Intake)	
Weir (Weir)	
River Weir	
Water Fall, Rapids	
Steep Slope	
Cliff	
Outcrop (Rock)	
Cutting	
Embankment	
Fence	
Hedge	
Cultural Boundary	
Plot Boundary	
Rice Field (Sagekoro Field)	
Cultivated Area (Other Cultivated Area)	
Forest (Wood Land)	
Scrub	
Scattered Trees	
Orchard	
Timber Tree	
Swamp	
Grassland	
Principal Point of Aerial Photograph (under construction) (date)	
Ice Line (Water)	
Power Line	
Provincial Boundary	
District Boundary	
Division Boundary	
Location Boundary	

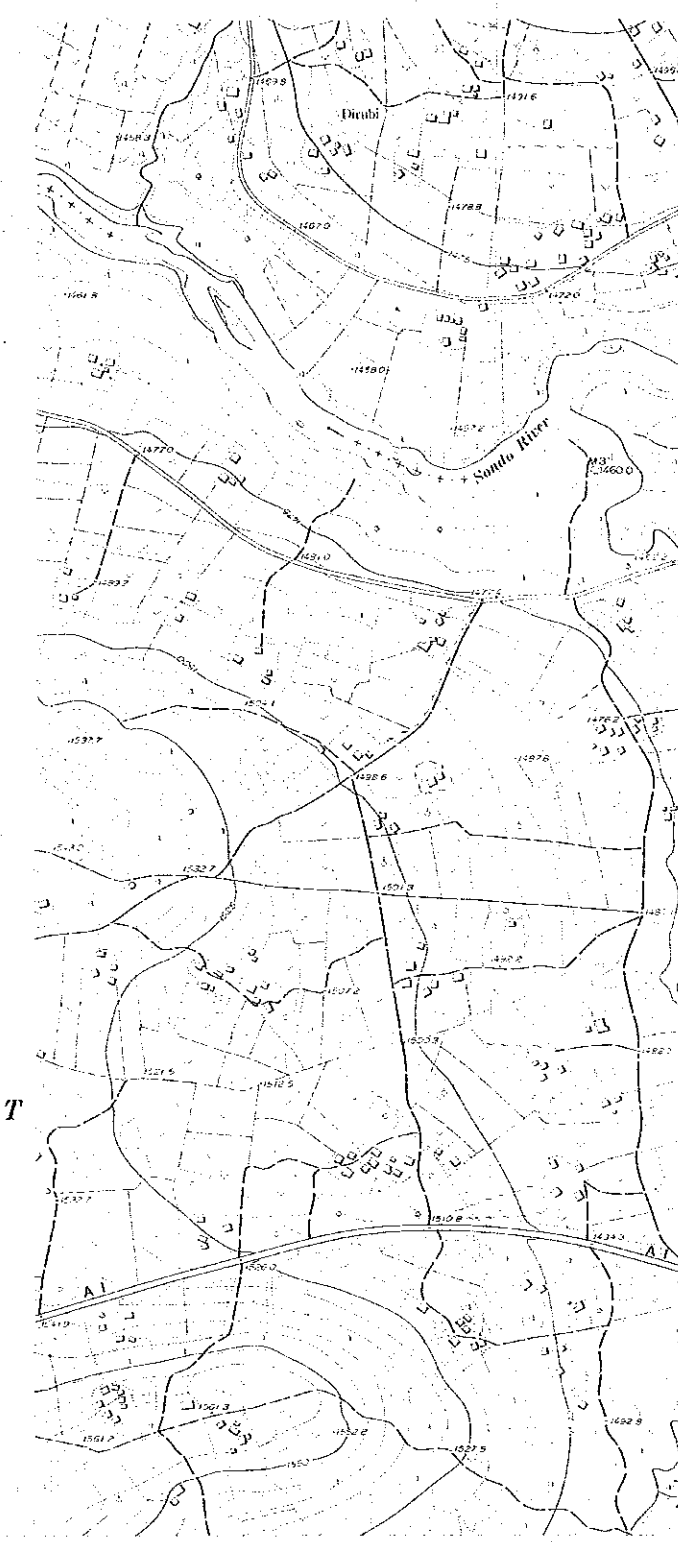
KISUMU DISTRICT



NYANZA PROVINCE

HOMA BAY DISTRICT

KISUMU DISTRICT



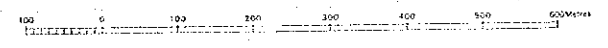
NYANZA PROVINCE

HOMA BAY DISTRICT

5553
717

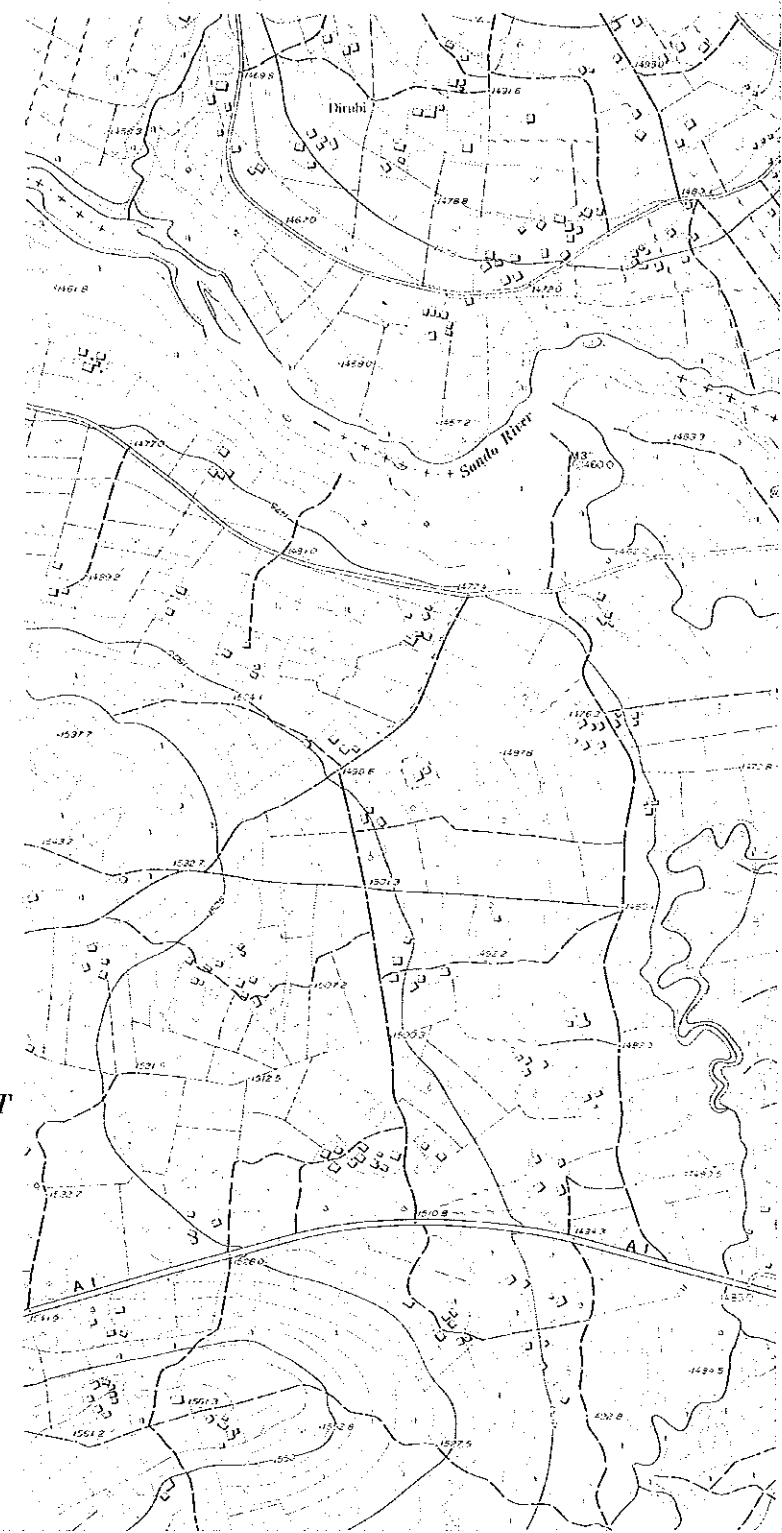
Aerial Photography Date : February 1990
Mapping Date : September 1990

SCALE 1:5,000



Planning Organization : Japan International
Executing Organization : PASCO INTE

KISUMU DISTRICT



NYANZA PROVINCE

HOMA BAY DISTRICT

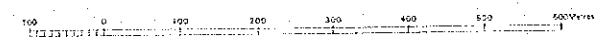
Buildings	
Wall, Church, School	
Railway	
(Tarmac)	
Road	
(Earth Road)	
Tracks	
(Foot Paths and Other Tracks)	
Row of Trees	
Ditch, Culvert	
River	
Livestock Canal	
Lake or Pond	
Contour	
Depression	
Triangulation Station (BM)	
Triangulation Station (GPS POINT)	
Bench Mark	
Minor Leveling	
Spot Height	
Shore Gate (intake)	
Weir (drop)	
River Weir	
Water Fall, Rapids	
Steep Slope	
Cut	
Outcrop (Rock)	
Cutting	
Embankment	
Fence	
Hedge	
Cultivational Boundary	
Plot Boundary	
Rice Field	
Cultivated Areas (Sugarcane Fields)	
Cultivated Areas (Other Cultivated Areas)	
Forest (Wood Land)	
Scrub	
Scattered Trees	
Open Tree	
Isolated Tree	
Savanna Swamp	
Grassland	
Pinpoint Points of Aerial Photograph	
Pipe Line (Water)	
Pipe Line	
Physical Boundary	
District Boundary	
Division Boundary	
Location Boundary	
Site Location Boundary	

GRID DATA

Universal Transverse Mercator
 Grid Zone 36
 Projection Transverse Mercator
 Spheroid Clark 1880 (Modified)

No. 0

SCALE 1:5,000


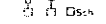


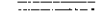


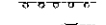
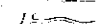
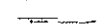
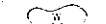
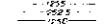
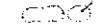
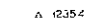
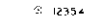

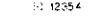
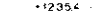
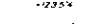
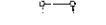
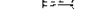

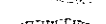
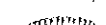
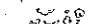
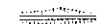

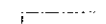
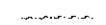

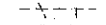
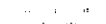



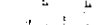
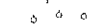


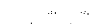

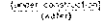

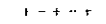
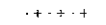



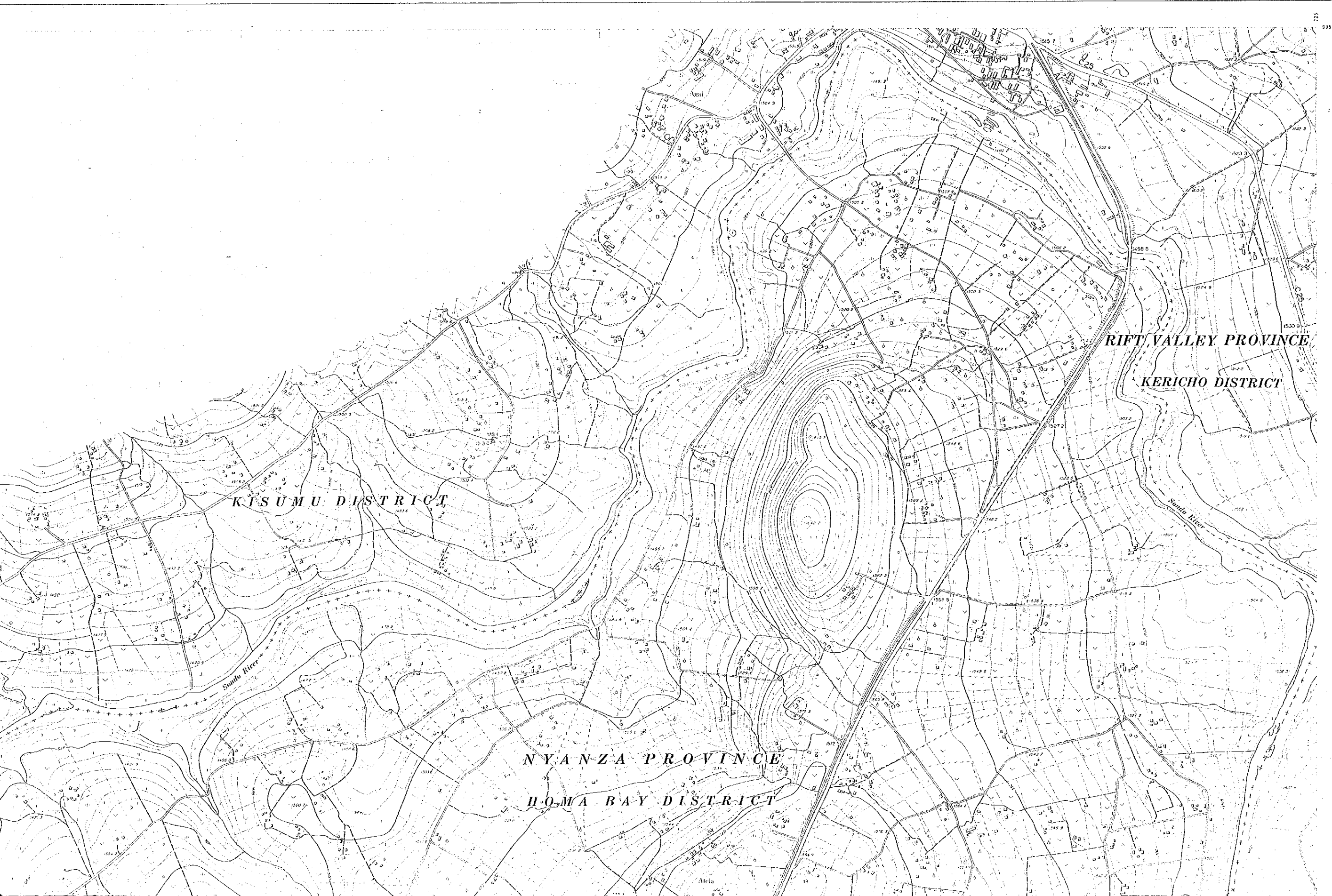
Planning Organization : Japan International Cooperation Agency (JICA)
 Executing Organization : PASCO INTERNATIONAL INC.

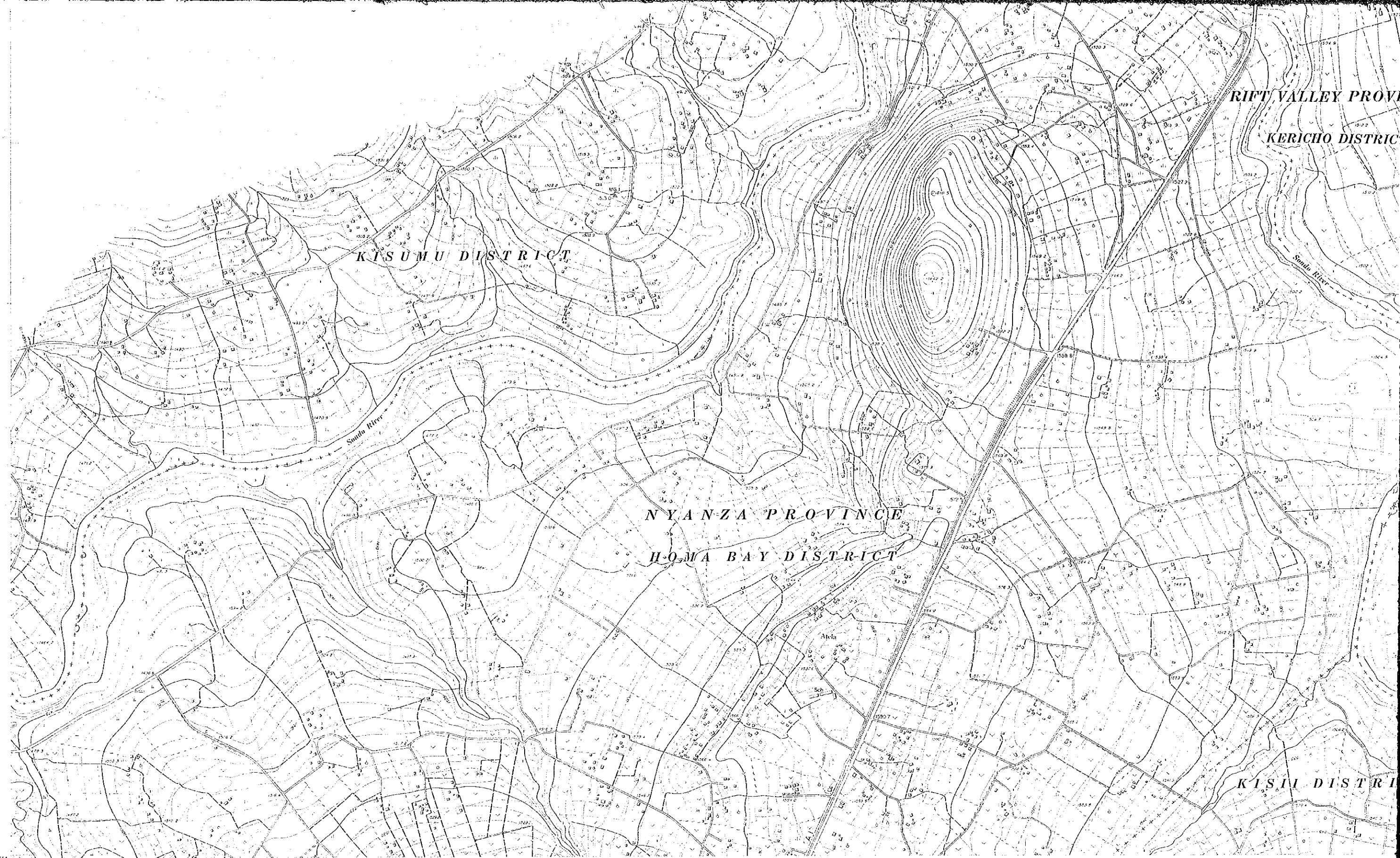


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			23		

LEGEND

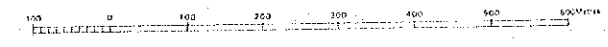
- Buildings 
- Mosk, Church, School 
- Railway 
- Road 
- Trails 
- Tracks 
- Row of Trees 
- Bridge Culvert 
- River 
- Irrigation Canal 
- Lake or Pond 
- Cisterns 
- Depression 
- Engineering Station (S) 
- Engineering Station (GPS POINT) 
- Benchmark 
- Minor Leveling 
- Spot Height 
- Splice Gate (steel) 
- Weir (brick) 
- River Weir 
- Water Fall, Raids 
- Steep Slope 
- Cliff 
- Outcrop (rock) 
- Cutting 
- Embankment 
- Fence 
- Hedge 
- Cultivational Boundary 
- Plot Boundary 
- Rice Field 
- Cultivated Area (Sugarcane Field) 
- Cultivated Area (Other Cultivated Area) 
- Forest (Wood Land) 
- Scrub 
- Scattered Trees 
- Orchard 
- Isolated Tree 
- Seasonal Swamp 
- Grassland 
- Principal Point of Aerial Photograph 
- Pipe Line (Water) 
- Power Line 
- Provincial Boundary 
- District Boundary 



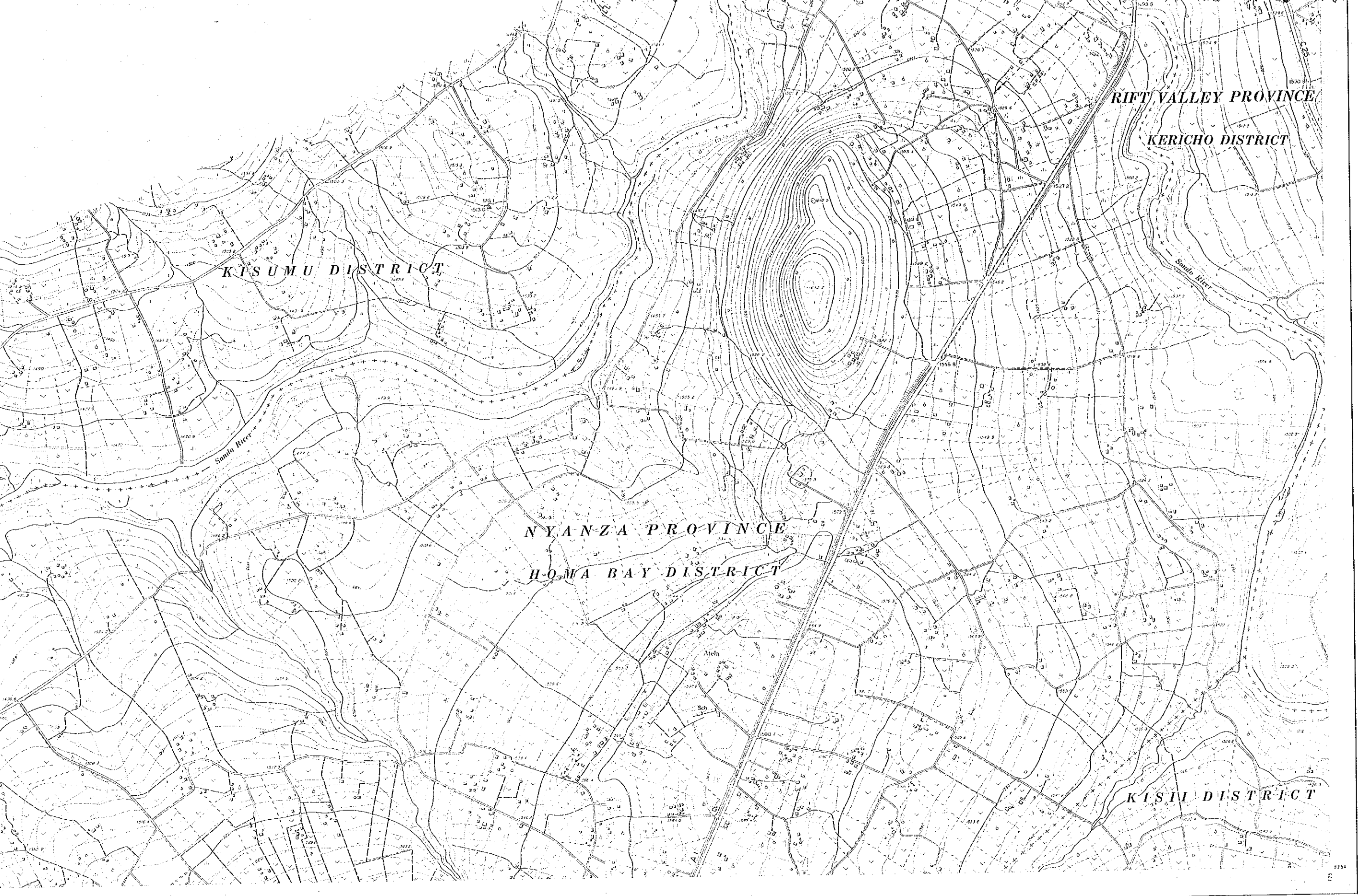


Aerial Photography Date : February 1990
Mapping Date : September 1990

SCALE 1:5,000



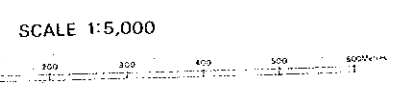
Planning Organization : Japan International
Executing Organization : PASCO INTERNA



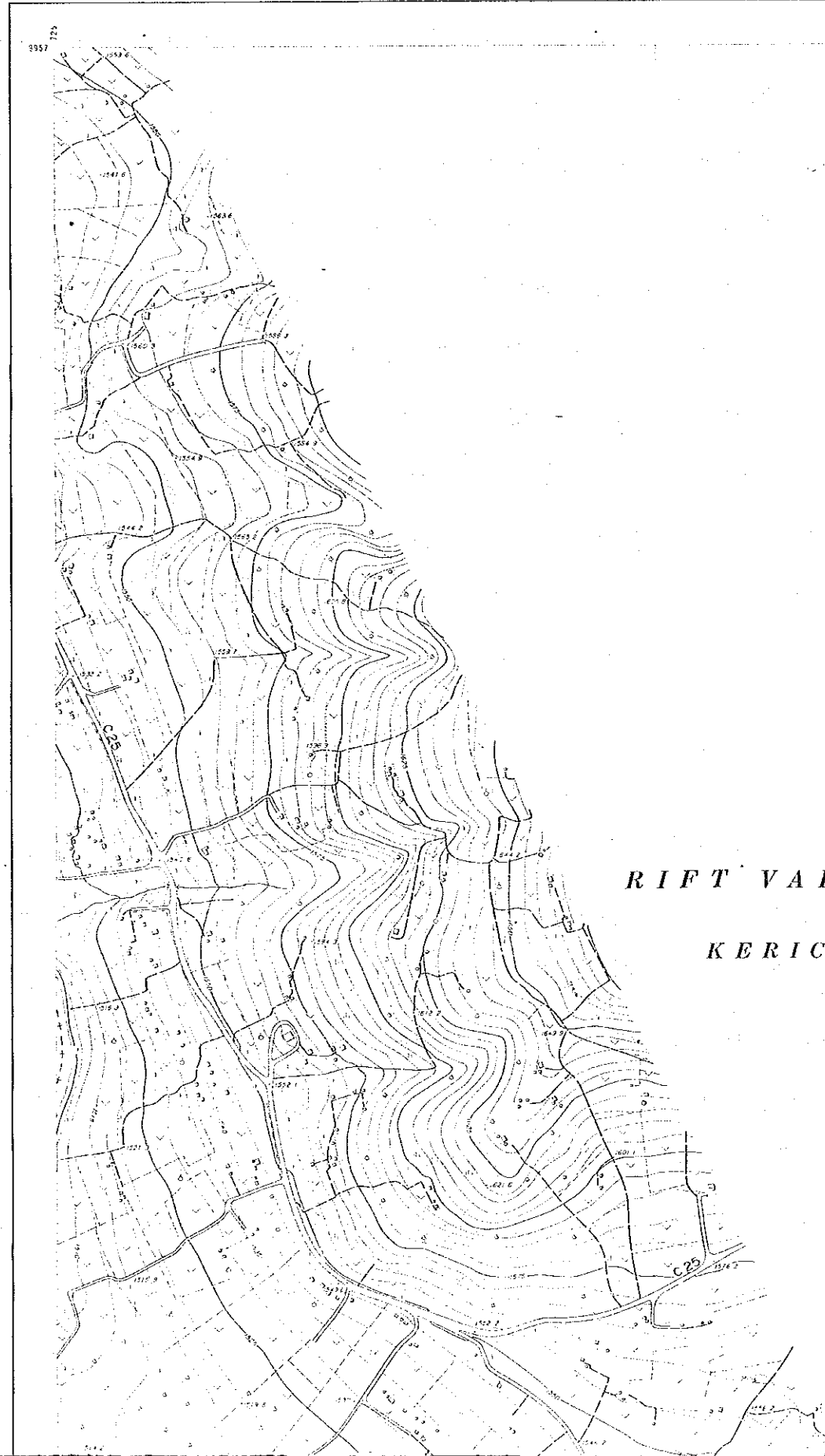
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Railway	1:1500
(Track)	1:1500
Road (Earth Road)	1:1500
(Main Tracks)	1:1500
Tracks (Foot Path and Other Tracks)	1:1500
Row of Trees	1:1500
Bridge, Culvert	1:1500
River	1:1500
Irrigation Canal	1:1500
Lake or Pond	1:1500
Contours	1:1500
Depression	1:1500
Trigonometrical Station (BM)	1:1500
(GPS POINT)	1:1500
Beach Mark	1:1500
Minor Leveling	1:1500
Spot Height	1:1500
Splice Gate (sluic)	1:1500
Weir (sluic)	1:1500
River Wall	1:1500
Water Fall, Rocks	1:1500
Steep Slope	1:1500
Cliff	1:1500
Outcrop (Rock)	1:1500
Cutting	1:1500
Embankment	1:1500
Fence	1:1500
Mudge	1:1500
Cultivational Boundary	1:1500
Plot Boundary	1:1500
Rice Field	1:1500
Cultivated Areas (Sugarcane Field)	1:1500
(Other Cultivated Areas)	1:1500
Forest (Wood Land)	1:1500
Scrub	1:1500
Scattered Trees	1:1500
Orchard	1:1500
Isolated Tree	1:1500
Seasonal Swamp	1:1500
Grassland	1:1500
Principal Point of Aerial Photograph	1:1500
Ice Line (Water)	1:1500
Power Line	1:1500
Provincial Boundary	1:1500
District Boundary	1:1500
Division Boundary	1:1500
Location Boundary	1:1500
Sub Location Boundary	1:1500

GRID DATA
 Universal Transverse Mercator
 Grid Zone 36
 Projection Transverse Mercator
 Spheroid Clark 1860 (Modifd)

No. 1

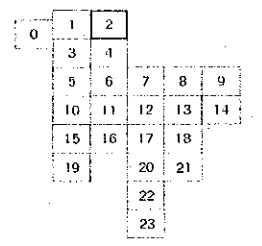


Planning Organization: Japan International Cooperation Agency (JICA)
 Executing Organization: PASCO INTERNATIONAL INC.



RIFT VALLEY PROVINCE

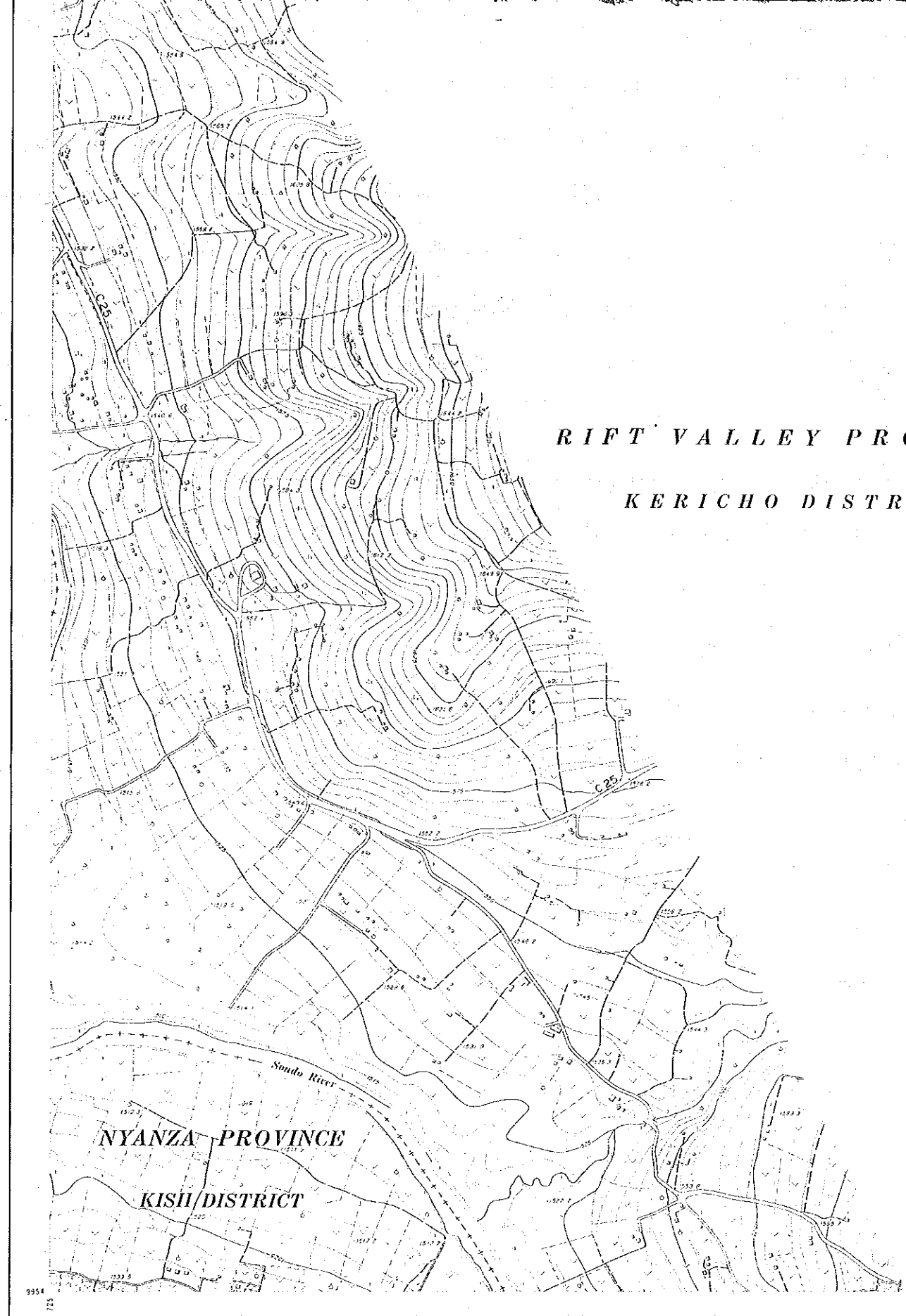
KERICHO DISTRICT



LEGEND

Buildings	
Mosk, Church, School	
Railway	
Road (Tarmac)	
Road (Earth Road)	
Trails (Main Tracks)	
Trails (Foot Paths and Other Tracks)	
Row of Trees	
Bridge, Culvert	
River	
Irrigation Canal	
Lake or Pond	
Contours	
Depression	
Trigonometrical Station (S.A.)	
Trigonometrical Station (G.P.S. POINT)	
Bench Mark	
Minor Leveling	
Spot Height	
Slave Gate (intake)	
Wall (masonry)	
River Wall	
Water Fish Roads	
Steep Slope	
Cut	
Outcrop (Rock)	
Cutting	
Embankment	
Fence	
Hedge	
Cultivational Boundary	
Plot Boundary	
Rice Field (Sugarcane Field)	
Cultivated Areas (Other Cultivated Areas)	
Forest (Wood Land)	
Scrub	
Scattered Trees	
Orchard	
Isolated Tree	
Seasonal Swamp	
Grassland	
Principal Point of Aerial Photograph (under construction) (water)	
Pear Line (Water)	
Pear Line	
Provincial Boundary	
District Boundary	





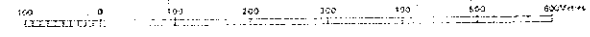
RIFT VALLEY PROVINCE
KERICHO DISTRICT

NYANZA PROVINCE
KISII DISTRICT

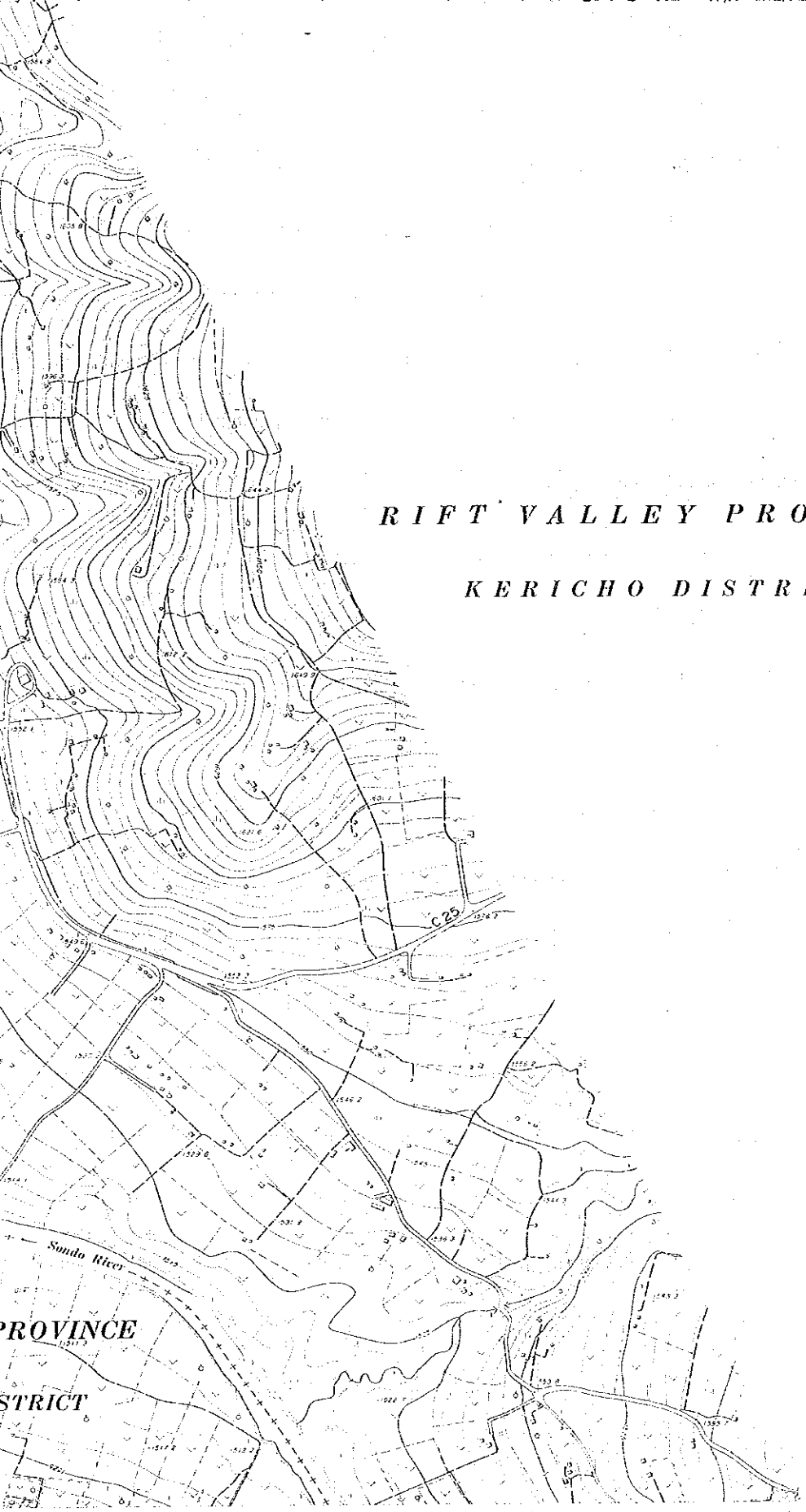
Sinda River

Aerial Photography Date : February 1990
Mapping Date : September 1990

SCALE 1:5,000



Planning Organization : Japan International Co-Operation Agency
Executing Organization : PASCO INTERNATIONAL



RIFT VALLEY PROVINCE
KERICHO DISTRICT

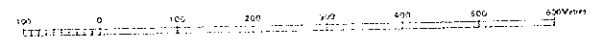
Buildings	
Moat, Church, School	
Relay	
(Railroad)	
Road (Earth Road)	
(Main Tracks)	
Trails (Foot Paths and Other Trails)	
Row of Trees	
Bridge, Culvert	
River	
Irrigation Canal	
Lake or Pond	
Contours	
Depression	
Trigonometrical Station (BM)	
(GPS POINT)	
Bench Mark	
Minor Leveling	
Spot Height	
Sluice Gate (weir)	
Weir (type)	
River Wall	
Water Fall, Rapids	
Steep Slope	
Clim	
Outcrop (Rock)	
Cutting	
Embankment	
Fence	
Hedge	
Cultivational Boundary	
Frost Boundary	
Rice Field	
(Sugarcane Field)	
Cultivated Area (Other Cultivated Area)	
Forest (Wood Forest)	
Shrub	
Scattered Trees	
Orchard	
Isolated Tree	
Seasonal Swamp	
Grassland	
Principal Point of Aerial Photograph	
Pipe Line (Water)	
Power Line	
Provincial Boundary	
District Boundary	
Division Boundary	
Location Boundary	
Sub Location Boundary	

GRID DATA

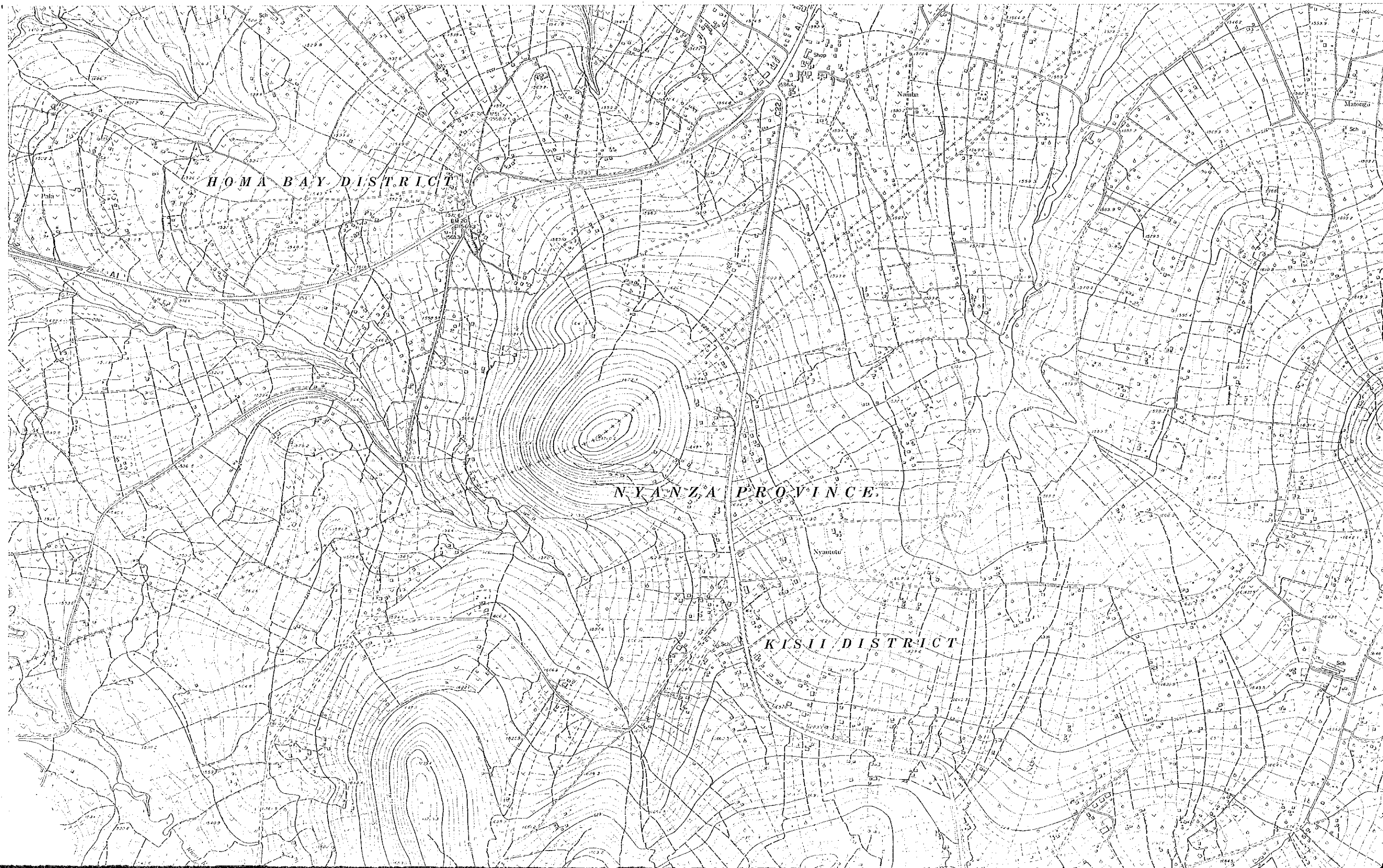
Universal Transverse Mercator
Grid Zone 36
Projection Transverse Mercator
Spheroid Clark 1880 (Modified)

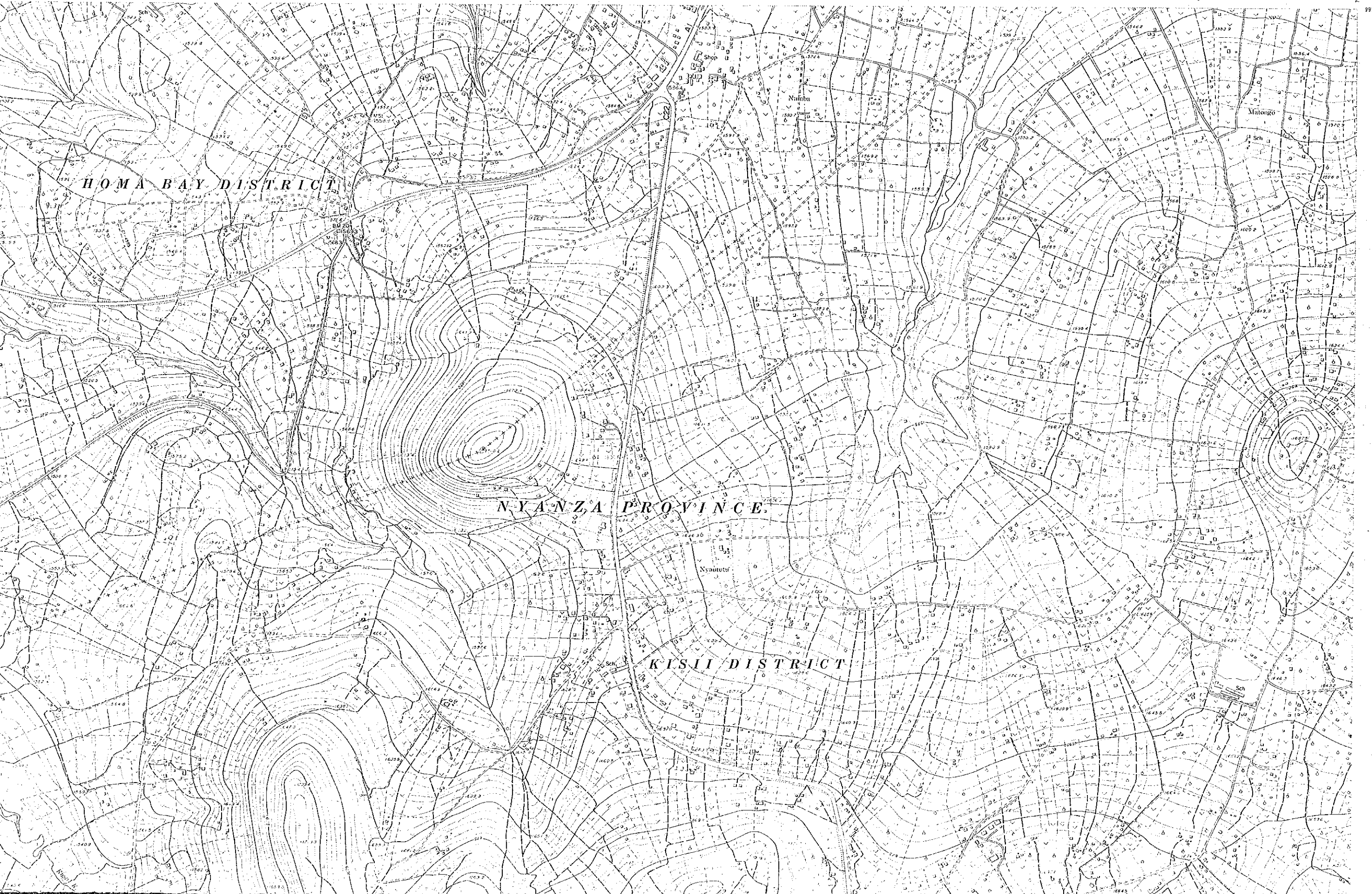
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SCALE 1:5,000



Planning Organization: Japan International Cooperation Agency (JICA)
Executing Organization: PASCO INTERNATIONAL INC.

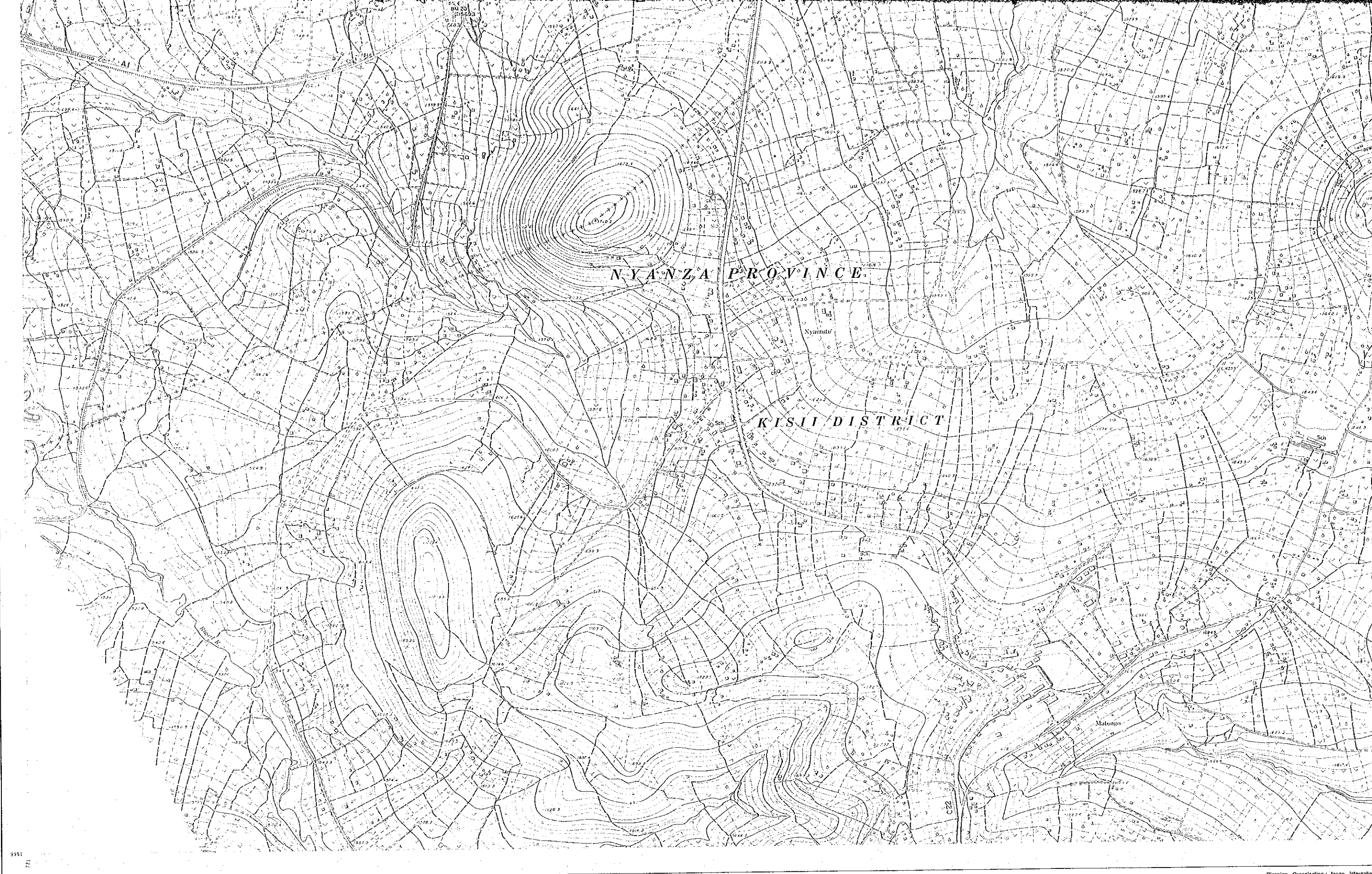




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19	20	21
	22	
	23	

LEGEND

- Buildings
- Mock Church, School
- Railway
- (Farm)
- Road (Earth Road)
- (Main Tracks)
- Tracks (Foot Paths and Other Tracks)
- Row of Trees
- Bridge, Culvert
- River
- Irrigation Canal
- Lake or Pond
- Contours
- Depression
- Trigonometrical Station (S.K.)
- Trigonometrical Station (GPS POINT)
- Bench Mark
- Minor Level
- Spot Height
- Sluice Gate (male)
- Well (good)
- Race: W.D.
- Water Fish, Rafts
- Steep Slope
- Cave
- Outcrop (Rock)
- Cutting
- Embankment
- Fence
- Wall
- Cultivational Boundary
- Plot Boundary
- Rice Field
- Cultivated Area (Sugarcane Field)
- Cultivated Area (Other Cultivated Area)
- Forest (Wood Land)
- Shrub
- Scattered Trees
- Orchard
- Isolated Tree
- Seasonal Swamp
- Grassland
- Proposed Point of Aerial Photograph
- Pipe Line (Water)
- Power Line
- Provincial Boundary
- District Boundary



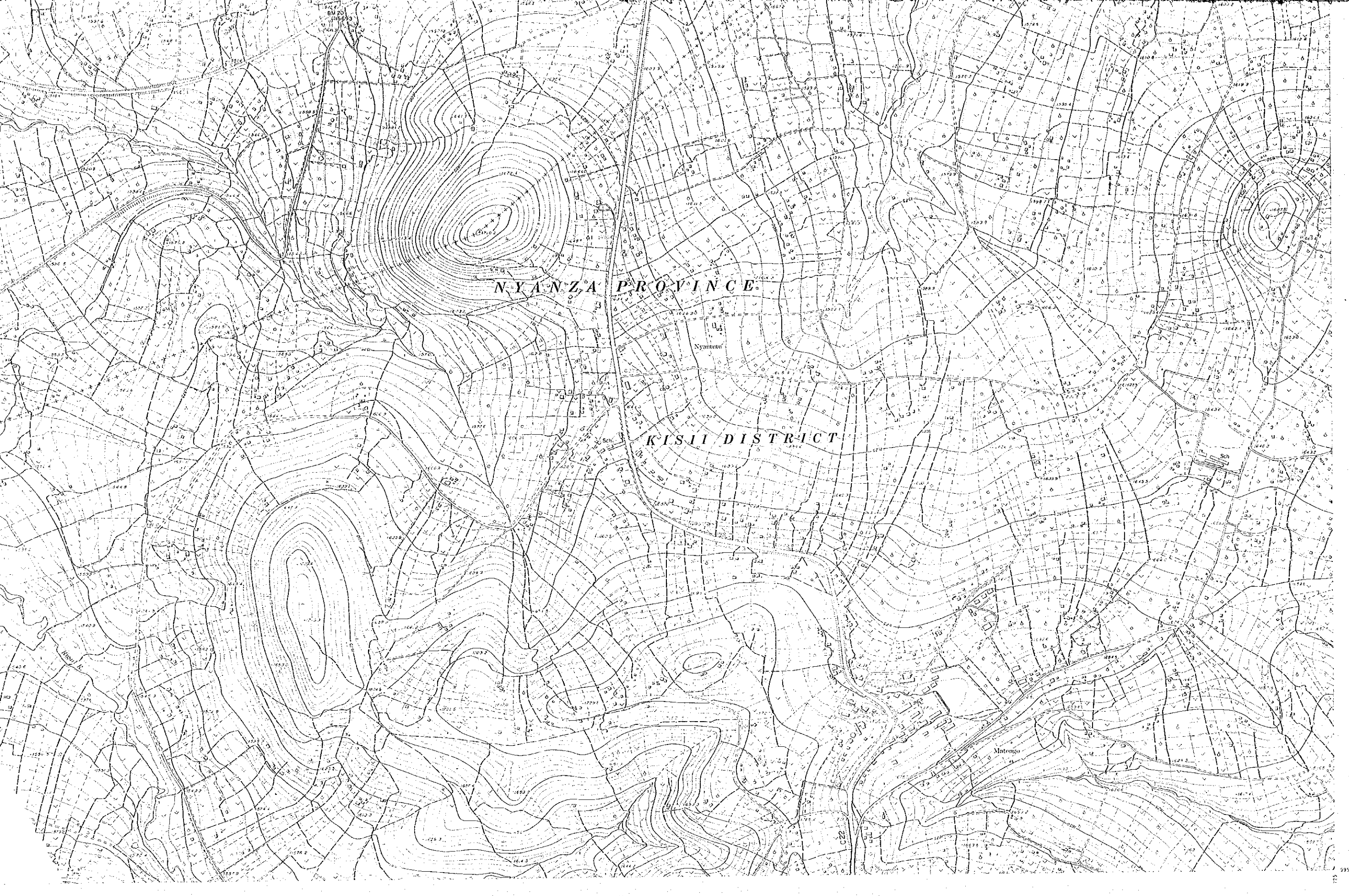
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Aerial Photography Date : February 1990
Mapping Date : September 1990

SCALE 1:5,000



Planning Organization : Japan International Cooperation Agency
Executing Organization : PASCO INTERNATIONAL

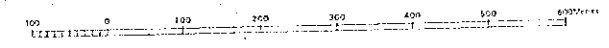


Buildings	
Mark. Church, School	
Railway	
(Terrace)	
Road	
(Earth Road)	
Trails	
(Plot Paths and Other Trails)	
Row of Trees	
Bridge, Culvert	
River	
Irrigation Canal	
Lake or Pond	
Contours	
Depression	
(BM)	A 12354
Trigonometrical Station	
(GPS POINT)	○ 2354
Black Mark	
13 12354	
Minor Leveling	
Spot Height	
Splice Gate (intake)	
Weir (weir)	
Rear Wall	
Water Fall, Rapids	
Scrap Slope	
Cut	
Outcrop (Rock)	
Cutting	
Embankment	
Fence	
Hedge	
Cultivational Boundary	
Plot Boundary	
Rice Field	
(Savanna Field)	
Cultivated Area	
(Other Cultivated Areas)	
Forest (Wood Land)	
Scrub	
Scattered Trees	
Orchard	
Isolated Tree	
Seasonal Swamp	
Grassland	
Principal Point of Aerial Photograph	
(under construction)	
Pole Line (Water)	
Power Line	
Provincial Boundary	
District Boundary	
Division Boundary	
Location Boundary	
Sub-Location Boundary	

GRID DATA
 Universal Transverse Mercator
 Grid Zone 36
 Projection Transverse Mercator
 Spheroid Clark 1820 (Modified)

No. 3

SCALE 1:5,000



Planning Organization : Japan International Cooperation Agency (JICA)
 Executing Organization : PASCO INTERNATIONAL INC.