1.2.3 RAINFALL

Monthly precipitation in Puno City for the last 5 years is shown in *Table VII.1.2*. The most of the heavy rain events occurred from December to March. At present, SENAMHI weather station in Puno only records daily precipitation. The pluviographic band data is not available since 1990. For the evaluation of maximum rainwater discharge, the rainfall intensities for 5 and 10 years return periods are studied using the pluviographic band data from 1965 to 1989.

Table VII.1.2 Monthly precipitation in Puno

ĺ	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
i	1993	175.6	100.7	107.0	52.5	6.6	1.1	0.0	37.9	18.0	69.1	79.2	111.5	759.2
	1994	180.0	183.1	113.3	116.2	29.9	0.4	0.0	0.0	18.3	36.6	52.6	73.2	803.6
	1995	122.7	119.7	124.0	2.1	4.1	0.0	0.0	3.0	21.9	15.3	50.3	80.2	543.3
Ì	1996	252.7	130.5	60.8	76.3	0.0	0.0	2.9	12.8	0.8	10.4	88.3	118.0	753.5
Ì	1997	239.6	213.2	98.6	.88.6	0.9	0.0	0.0	21.9	108.2	30.1	62.9	44.9	908.9

Source: SENAMHI

1.2.4 OPERATION AND MAINTENANCE

Puno municipality performs silt and debris removal from the major urban drainage ways before and after the rainy season. For the each occasion, 5 personnel take part in the works for the duration of 15 to 20 days. The removed silt is transported by the dump trucks to be used as a construction material (backfill) or to the final disposal. Inspections are done after the above works and the damaged sections are repaired. If the illegal disposals of wastewater to the drainage ways were found, they are reported to EMSAPUNO.

Personnel from PELT inspect the erosion control facilities for microcuencas at the end of rainy season. The repair works for the damaged small dams are required after the major storm events.

1.2.5 FUTURE DEVELOPMENT PLANS

The following studies have been made on the drainage systems of Puno City:

1. PELT (1997) "Estudio de Factibilidad — Descontaminación y Desarrollo de la Bahia Interior de Puno".

2. WB (1998) "Programa de Rehabilitacion y Gestion Urbana en la Republica del Peru"

PELT proposed a storm water management plan as a part of "Bstudio de Factibilidad – Descontaminacion y Desarrollo de la Bahia Interior de Puno", 1997. The plan includes not only rehabilitation and expansion of the existing urban drainage system, but also erosion control measures along the existing 58 small rivers (microcuenças). The erosion control measures include installation of small dams, stabilization of banks and forestation.

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World Bank funded "Programa de Rehabilitacion y Gestion Urbana en la Republica del Peru"; which diagnosed the existing condition of Puno City and proposed priority projects and studies. The proposed studies include the development of a stormwater drainage master plan. The development of the master plan will take eight months with the estimated cost of US\$ 435,022 (incl. I.G.V.). The proposed study includes thorough topographic survey of the area and hydraulic modeling of discharge for the fifty (50) years return period.

1.3 EVALUATION OF PRESENT CONDITIONS

At present, the major rain events flood the street in the several locations in the low-lying area of Puno City. But the flood level does not reach the top of the curb in the streets. In the past 20 years, the flood level reached the floor level of the buildings around the lake shore only when the water level of the lake went up, especially when it reached 3,813 m a.s.l. in 1986,

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The street flooding takes place where the street drainage system is in sufficient or does not exist. But the natural gradient towards the lake drains rainwater within a relatively short period. Normally, the water level of the street goes down in less than 1 hour after rain events.

Silt and debris accumulation is observed in the most of the drainage ways, which requires periodical maintenance works by Puno provincial municipality.

In the small rivers (microcuencas) located on the steep hill over the city center, disposal of solid wastes, human excreta and used construction materials are frequently observed due to the insufficient solid waste collection (once a week)

and the lack of sanitation facilities. Those wastes are washed away by the rain events, through urban drainage ways, reach the interior bay.

The erosion control measures initiated by PELT for the higher part of the study area over 3,850 m a.s.l. manage to control the serious erosion of the area, although the facilities require periodical maintenance works. PELT intends to extend existing facilities to the whole catchment area of the interior bay.

1.4 IDENTIFICATION OF PROBLEMS

The following problems of the existing drainage system have been found:

(1) Street flooding

Street flooding is observed mostly in low-lying area of the city. Although the flood level does not seriously obstruct the traffic so far, street drainage facilities shall be installed. Only few streets in the city have proper drainage facilities. The most of existing street drainage systems require repair and maintenance works such as dredging and cleaning of grilles.

(2) Sedimentation in the drainage ways

Sedimentation of silt and debris is observed most of the drainage ways, which reduce the hydraulic capacity of the system. Major sources of incoming silt are earth banks of small rivers, unpaved road in the steep hill and construction site scattered in the city. Sediment deposited during small storms can flush during larger storm events to the lake. They not only reduce the drainage capacity of the channels but also increase the cutrophication level of the interior bay of Puno as they are washed away to the lake by the rain events.

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(3) Rainwater inflow to the sanitary sewer system

The lack of proper streets and building drainage facilities leads to the intentional and unintentional rain water discharge into the sanitary sewer system and results in surcharging and silt sedimentation in the sewer lines. Rainwater from the roof is often led to the sewage pit of buildings and ends up in the sewerage collection

system. In the several places, rainwater drainage pipes or gutters are directory connected to the manholes of the sewage collection system.

(4) Water quality

The only 46% of the population are connected to the sanitary sewer system. The rest of the population dispose domestic wastewater to the streets or gutters, which ends up in the drainage ways. Combined with the solid wastes disposed in the microcuencas or drainage ways, wastewater degrades the stormwater run off quality and becomes a pollution load to the lake.

2. HYDROLOGICAL ANALYSIS

This chapter presents the results on meteo-hydrological analysis carried out during the period October 1998 to February 1999 in Peru and May to July, 1999 in Japan. Previous studies have been reviewed, raw data on meteorology and hydrology have been collected and a detailed analysis on meteo-hydrology has been carried out using the collected data.

2.1 RAINFALL ANALYSIS

2.1.1 MONITORING OF RAINFALL

Rainfall has been recorded at SENAMHI Puno station located in the Study area. Pluviographic charts, which record rainfall depth measured by a rain gage continuously, are available for the period between year 1965 and 1989. Since year 1990, use of this rain gage was discontinued and only daily rainfall readings are available.

2.1.2 PROBABILITY ANALYSIS ON ANNUAL MAXIMUM RAINFALLS

Annual maximum rainfall data at Puno station is presented in *Table VII.2.1*. The values for 15 minutes up to 24 hours represent annual maximum rainfall from compound rainfall (single or multiple) events.

Probability analysis on annual maximum short duration rainfall (from 15 minutes up to 180 minutes) and for long duration rainfall (from 3 hours up to 24 hours or

daily) have been carried out using Gumbel's distribution method. The goodness of fit by Gumbel's distribution has been checked against Thomas (or Weinbull's) plotting position formula and is shown in *Figure VII.2.1*. It can be seen that Gumbel's distribution gives comparable fits with Thomas plots.

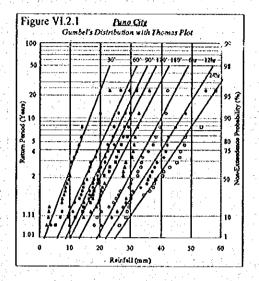


Table VII.2.1 Annual maximum rainfalls in Puno City

Year	Jerusala	estrippi j	T. Filtrag	Precipitat	on (mm)	1.11	Maria di Ka	14 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
No. 1	30 min.	60 min.	90 min.	120 min.	180 min.	6 hrs.	12 hrs.	24 hrs.
1965	10.5	18.5	21.6	27.0	31.5	41.5	44.7	46.2
1966	10.0	19.0	22.5	25.5	32.7	38.2	41.4	45.2
1967	7.4	10.0	16.6	16.9	17.0	30.4	33.3	37.7
1968	11.3	15.7	17.6	19.4	21.5	26.8	27.6	29.8
1969	10.0	16.8	21.7	25.1	28.5	30.2	30.2	30.2
1970	8.5	11.6	14.7	18.0	20.4	25.3	35.7	36.3
1971	20.0	26.1	28.3	29.9	32.2	33.9	42.3	46.4
1972	3.0	6.9	9.4	11.9	19.4	. 33.4	37.0	38.2
1973	9.1	24.3	28.0	29.3	30.9	32.4	40.8	40.8
1974	9.6	14.7	19.2	23.0	27.7	32.5	41.9	53.3
1975	8.6	13.8	16.3	17.6		33.6	35.3	53.3
1976	7.5	13.2	16.5	17.7	18.9	20.5	20.5	29.6
1977	3.2	7.5	11.0	14.3	19,8	26.2	36.3	37.4
1978	13.0	22.5	24.6	26.1	27.6	29.7	30.8	40.4
1980	8.1	14.5	14.5	14.5	14.6	19.1	23.9	29.1
1982	14.0	24.6	27.6	29.0	31.2	35.8	38.5	42.8
1984	2.3	14.2	19.5	21.4	28.1	42.0	54.7	58.1
1985	13.7	15.7	20.2	23.2	30.6	37.3	37.8	<u>47.7</u>
1986	12.3	16,3	17.7	18.0	20.8	24.5	25.7	26.5
1987	23.1	26.8	29.6	32.0	36.0	39.4	48.0	48.0
1988	2.9	3.8	5.1	5.3	9.9	18.2	28.7	28.7
1989	10.0	16.9	18.0	19.3	20.1	23.0	28.6	34.4
Maximum	23.1	26.8	29.6	32.0	36.0	42.0	54.7	58.1

^{*} Amount represents annual maximum rainfall for compound rainfall Data source: SENAMHI

The results of probability analysis are summarized in *Table VII.2.2*. Probable maximum rainfall intensities (60 minutes) for 2, 3, 5 and 10 year return periods are 15, 18, 21 and 24 mm/hr respectively.

Table VII.2.2 Probable maximum rainfall depths (Gumbel's method)

Unit: mm

Time		Pro	bable Rainf	all Depths f	or Different	Return Per	iods	
(minutes)	1.0-Yr	2-Yr	3-Yr	5-Yr	10-Yr	20-Yr	30-Yr	50-Yr
30		9.08	11.21	13.58	16.55	19.41	21.05	23.11
60	3.99	15.05	17.63	20.50	24.11	27.58	29.57	32.06
90	6.83	18.07	20.69	23,61	27.28	30.79	32.82	35.35
120	8.16	20.02	22.79	25.87	29.74	33.46	35.60	38.27
180	11.12	23.46	26.33	29.54	33.56	37.42	39.65	42.42
360	16.88	29.48	32.41	35.69	39.80	43.74	46.01	48.84
720	19.40	34.26	37.73	41.59	46.44	51.09	53.77	57.11
1440	22.31	38.52	42.30	46.51	51.80	56.88	59.80	63.45

2.1.3 Intensity-Duration-Frequency Curves

Based on the results of probability analysis using collected data ranging from 1965 to 1989, IDF curves have been constructed. To facilitate runoff analysis the best fit equation for the IDF curves has been investigated against Kimijima (or Wenzel) type equation:

$$i = \frac{a}{t_d^b + c}$$

where i: rainfall intensity (mm/hr)

t_d: duration (minutes)

Since, a single curve does not represent well for rainfall duration up to 24 hours, two sets of curves have been prepared: one set for rainfall duration up to 3 hours and another set for rainfall duration from more than 3 to 24 hours. Kimijima type equation gives good fits to calculated values by Gumbel's method. The proposed IDF curves with equations up to 3 hours and from more than 3 to 24 hours are shown in *Figure VII.2.2*.

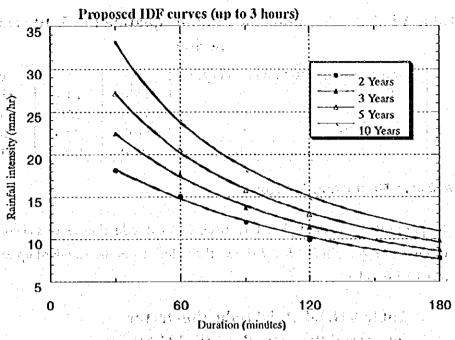


Figure VII.2.2-a Proposed IDF curves

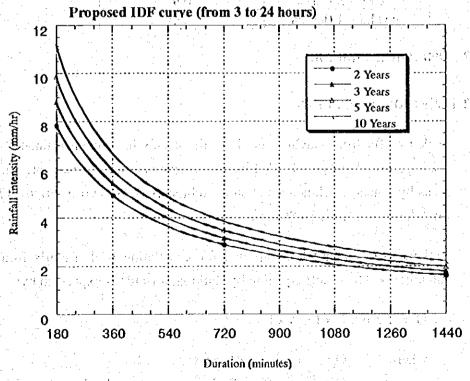


Figure VII.2.2-b Proposed IDF curves

Constants for the above equation are shown in Table VII.2.3.

Table VII.2.3 Constants for rainfall equation for 5, 10-year return period

Duration (min)	Return period (year)	a	b	c
0 – 180	5	3240	1.07	81.4
	10	3010	1.04	56.7
180-1440	5	1190	0.88	26.2
	10	1070	0.85	14.0

2.1.4 AREAL REDUCTION FACTOR

Proposed Peru standard (S.124.5) specifies areal reduction factors according to the catchment size. *Table VII.2.4* shows the values from the standard up to catchment size of 1,000 ha.

Table VII.2.4 Arial reduction factor (proposed Peru standard (S. 124.5))

Area	Reduction factor
≧ 200 ha	1.0
200 - 500 ha	0.9
500 ha – 1,000 ha	0.83

2.2 DISCHARGE ANALYSIS

2.2.1 METHOD OF ANALYSIS

Peak runoffs from catchments along the canals have been estimated. The total drainage area has been divided into 16 catchments and 84 sub-catchments. Basin areas by zones, catchments and sub-catchments are shown in *Figure VII.2.3*. The total drainage area is 18.86 km².

Rational formula has been applied for calculating peak runoffs from the subcatchments. The runoff equation by Rational formula is expressed by:

$$Q_p = 1/3.6 \times C \times I \times A \times f$$

where

Q_p: peak runoff (m³/s)

C: runoff coefficient, depends on landuse condition as discussed later

f: areal reduction factor, depends on catchment size as discussed in 2.1

A: catchment area (km²)

Rainfall intensity, as expressed by the equations of the IDF curves is a function of time of concentration T_c, which is expressed by:

$$T_c$$
 = $T_i + T_f$
where T_i : Time of inlet and

T_f:

•

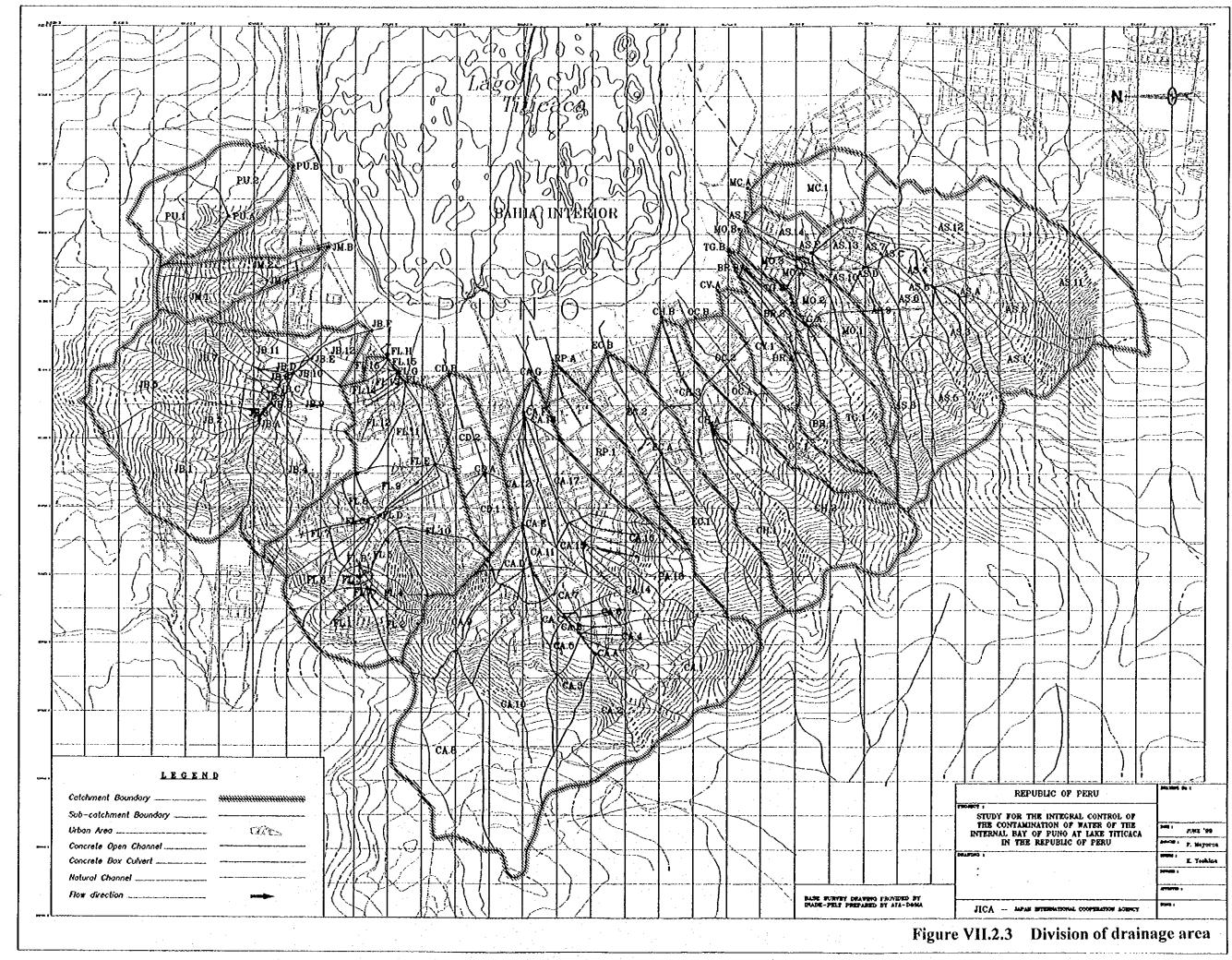
 T_i is a function of hydraulic length of overland flow (L_i), catchment slope(S) and landuse condition. For overland flow without a defined channel, T_i has been estimated using Kirpich formula as shown below:

Time of flow.

$$T_i$$
 = 0.0078 x $L^{0.77}$ x $S^{-0.385}$
where L: length of natural channel / catchment (ft)
S: average watershed slope

For natural channels of which there is no information on cross-sections, Kirpich formula has applied for calculating time of flow, from which flow velocity has been estimated.

For channels with known cross-sections, Manning's formula has been applied to estimate flow velocity.



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오는 그들은 마음을 살아가 보다는 하는 이라는 끝에 다른 경우를 하는 것 같아. 그리고 말을 하다.	
여성, 그리트 하이트 등 전에 있는 그 사람이 있는 사람들은 사람들이 하는 이 모든 데 되었다. 그런 그리는 아니라 하나 하였다.	. Volume
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그렇다. 그 어느 들어도 하는 일이 된 그의 살 보고 있었다. 그렇는 어린다. 그리고 있는 어느를 모르는 지원 등록 한 점점	9 4
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	C. I
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2.2.2 ESTIMATION OF RUNOFF COEFFICIENT

Runoff-coefficients for rational formula are dependent on the character and condition of the soil. *Table VII.2.5* presents estimated run off coefficient for urban area and hill slopes under existing (1998) and future (2025) land use. Those coefficients are chosen considering steep slope and poor vegetation of the area.

Table VII.2.5 Runoff coefficient

Year	Urban area	Hill
1998	0.8	0.6
2025	0.9	0.8

2.2.3 RETURN PERIODS

Proposed Peru Standard (S.124.5) of stormwater drainage design specified the following return periods.

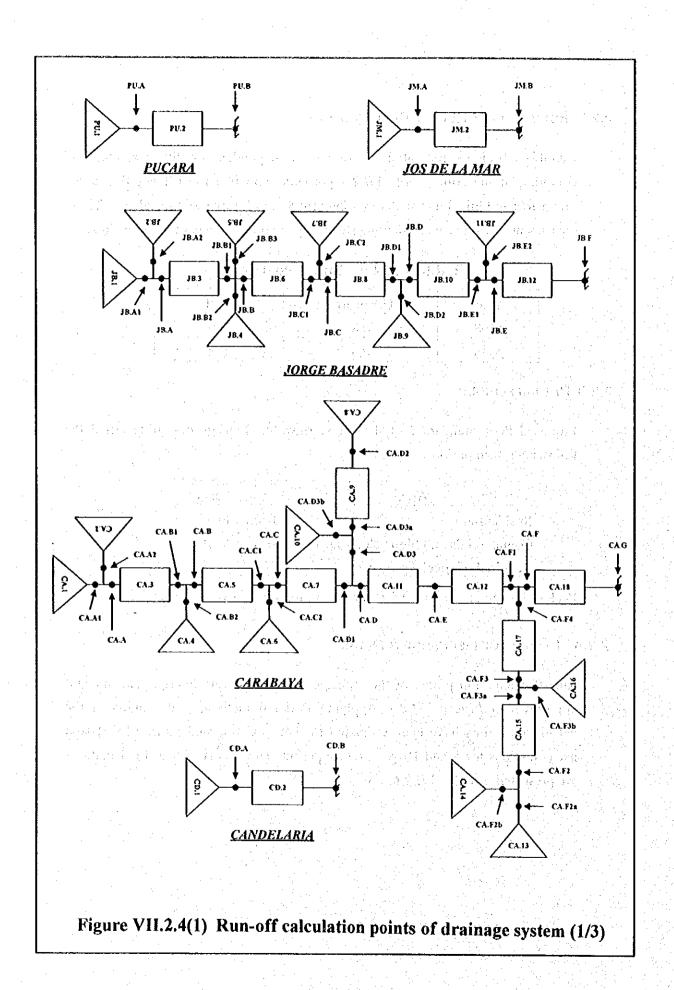
Areas	Years
Residential	from 1 to 5
Commercials and high value zones	from 5 to 10
Required of special protection	50

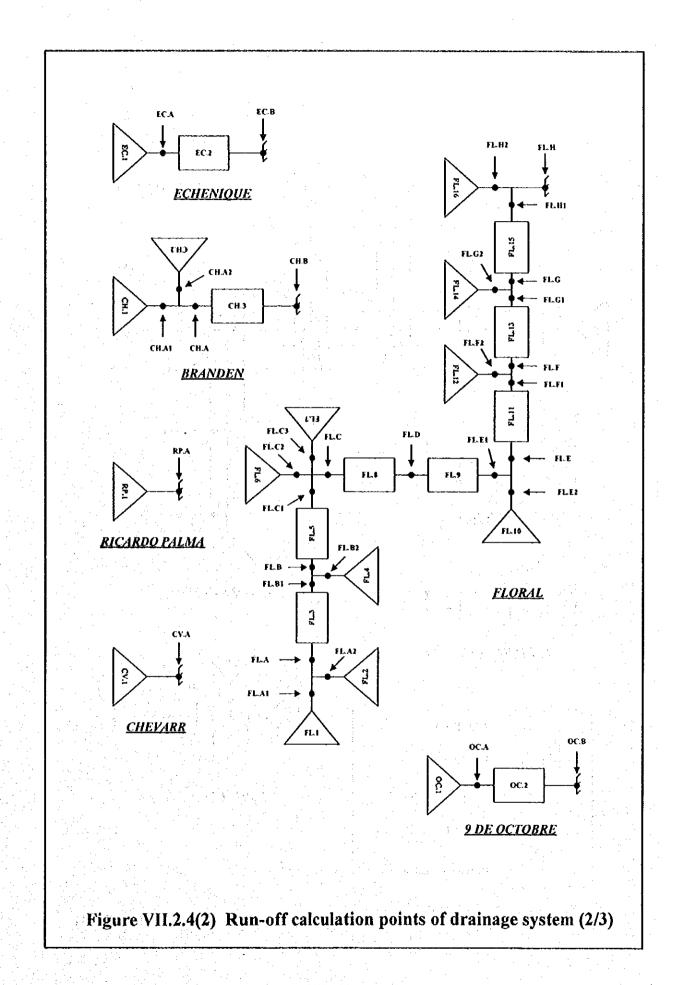
Peak discharge is calculated for 5 and 10 years return period in this study.

2.2.4 RESULTS OF DISCHARGE ANALYSIS

Runoff calculation points of the drainage systems (having multiple catchments) are shown in *Figure VII.2.4*. Applying Rational method, peak runoffs at the calculation points have been estimated for both existing and future (2025) land use conditions for 5-and 10-years return period. The results of runoff calculations are presented in *Table VII.2.6*.

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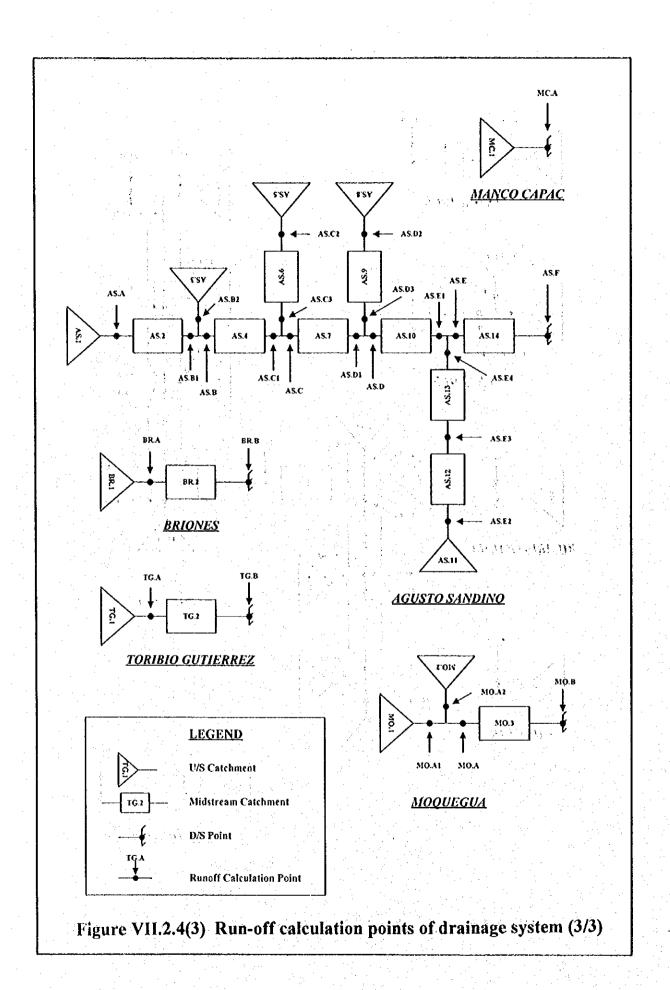


Table VII.2.6(1) Peak discharge calculation by rational method (1/2)

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2.2.5 EVALUATION OF EXISTING CHANNEL CAPACITY

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Discharge capacity of the existing concrete channels are calculated using Manning's formula. The results are shown in Table VII.2.7. Table VII.2.7 also presents comparison between peak discharge for the present land use and the above discharge capacity of the channels. The channel capacity was examined for 5-and 10-year return period. Figure VII.2.5 illustrates channels that do not have enough capacity to carry peak discharges for 5 and 10-year return periods. The drainage channel runs through Ave. Choquehuanco – Ave. Carabaya (discharge points CA.C – CA.G) does not have enough capacity for peak discharges for 5 and 10-year return periods. This coincides with he JICA team observation of street flooding around the point (CA.E) during the heavy rain events in February 1999.

Table VII.2.7(1) Existing capacity of drainage channels (1/2)

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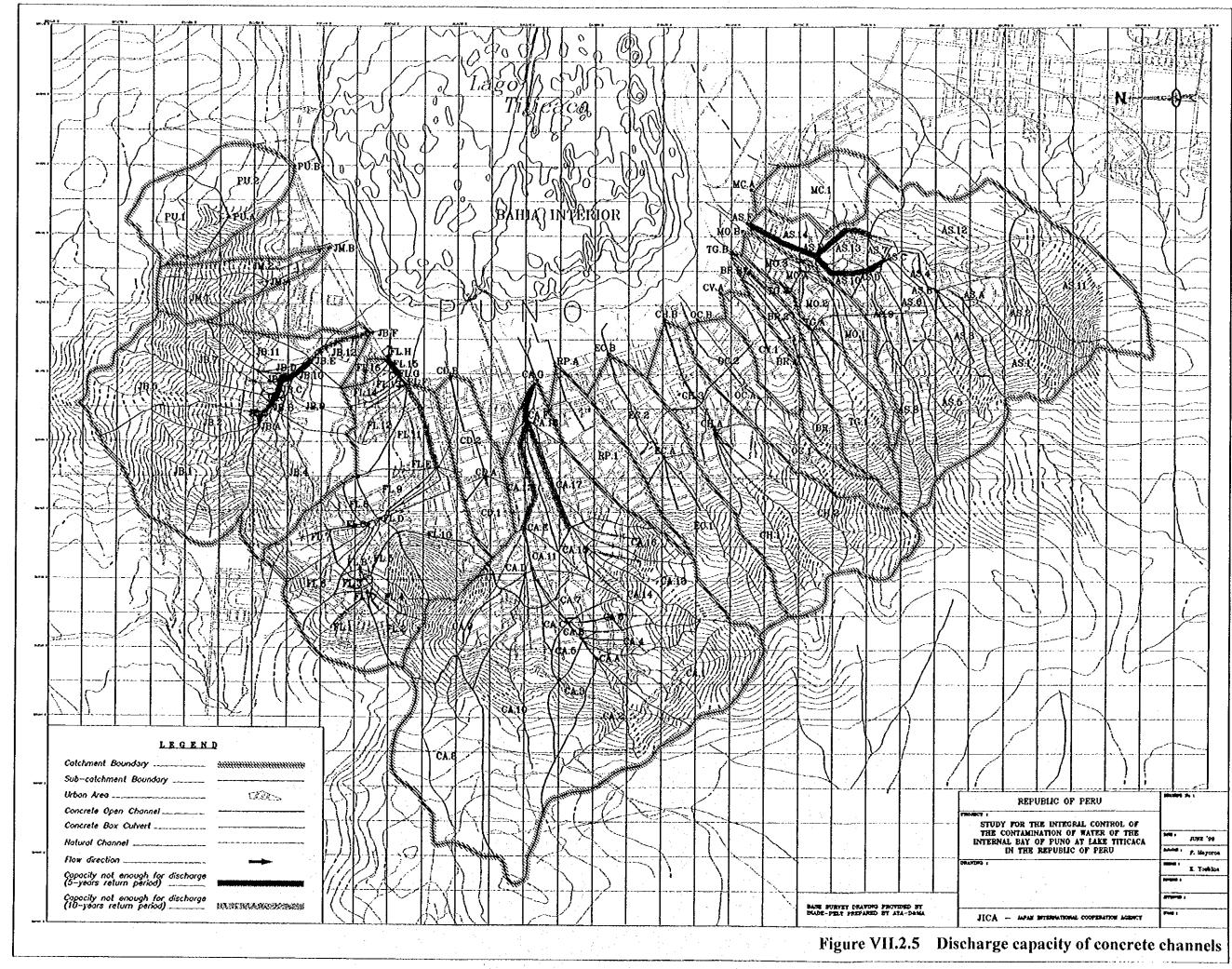
Table VII.2.7(2) Existing capacity of drainage system (2/2)

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VII - 24



2.2.6 FLOW VELOCITY OF NATURAL CHANNELS

Maximum permissible flow velocities, which do not cause scour, for unlined channels, are shown in *Table VII.2.8*. Bed materials of natural channels in Puno City are fire sand or silts. If flow velocity exceeds 0.75 m/s, channels are subject to scour, for which erosion control measures are required. *Figure VII.2.6* shows natural channels where flow velocity exceeds the maximum permissible velocities. PELT has installed flow control structures, such as small (check) dams for various natural channels shown in *Figure VII.1.2*. Erosion control measures shall be extended to all the other natural channels.

Table VII.2.8 Maximum permissible velocities recommended by Fortier and Scobey

(For straight channels of small slope, after aging).

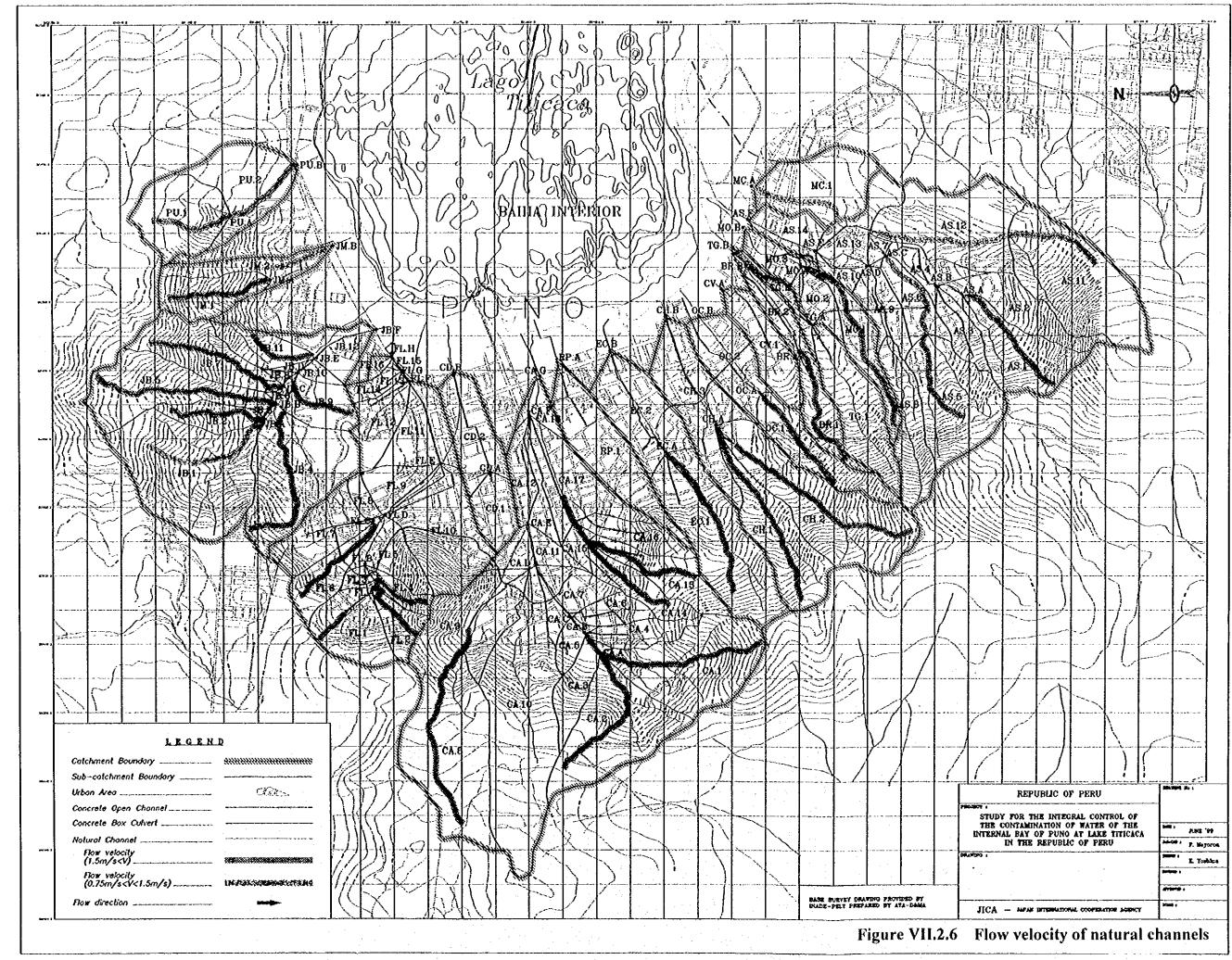
	Water Transporting Colloidal Silts
Material	V, m/s
Fine sand, colloidal	0.75
Sand loam, noncolloidal	0.75
Alluvial silts, noncolloidal	1.05
Alluvial silts, collidal	1.50
Fine gravel	1.50
Cobbles and shingles	1.65
Coarse gravel, noncolloidal	1.80
Concrete sewer*2	3.00

^{*}The Fortier and Scobey values were recommended for use in 1926 by the Sp Committee on Irrigation Research of the American Society of Civil Engineers.

Source: ASCE/WEF (1992)

^{*2} JICA Study team (1999)

그들이 우리 있는 말로 회원이 인터되는 학교 말한 것이 하는 데이 가는 이번 전에 오려 하는 데 그리네. 신네	
그렇지만 하는데 다른 가는데 얼마를 하는데 얼마나 나는 사람들이 되었다. 그는 그는 사람들은 사람들은 사람들은 사람들이 되었다.	
그 회사한 그림도 어머니는 아이는 어느 이 나가 되는 것이 되는 것들은 그는 그는 것이 나는 것이 되는 것이다.	
그 이는 그들이는 그리고 하는 아는 그들을 하고 있다. 그 그는 그를 가는 것이 하는 것이 되는 것이 없는 것이다.	
그 시간하다는 것으로 그리고 들었다. 이 그는 것으로 되고 있다면 하게 되었는 것 같아. 그는 이 사람은 이 없다. 어머니는	
그는 경기 교회 전환 이 살려 있는데 말씀이 이 그를 맞았다. 그는 그를 받는 그는 그런데 그는 그는 그들이 그를 모하는	
그 선생님은 사람이 되는 사람들은 얼마를 하는 것이 되었다. 그 사람들은 사람들은 사람들이 되었다.	
그 그들은 아이는 사람들이 가입을 하게 살아가고 하실 수 있는 것이 없는 그는 사람들이 없어 가는 것을 모든 수 있다.	
그 항문 물을 보고하는 것이 많아 있다고 하고 있습니다. 중요한 물로 하는 것이 되는 데 이번 경우가 되었다. 그런 말을 모고 있다.	
그 한쪽 화통한 이 프로마인하는 과장에 보인하게 하는 문화를 받는데 하는데 하는 그를 하다가 보고 되었다. 그 밤이 그렇다	
그는 관계들은 말한 가능한 기를 작가보면 이 보고를 보면하실 그리고 가면 살고 가게 관심을 가는 것 같습니다.	
그렇게 불통할 것같은 그는 점점 하는 사고를 보는 것을 보면 보면 하는 것이 되었다. 그는 것이 되었다는 것이 없는 것이 없는 것이다.	
그렇게 하는 네 프로젝트 회의적하다 보고 많은 일반 경험이 하는데 이 문이 만든 방문이다고요? 그 가는데 먹다는데	
그 공통 회 회 회의 함께 그렇게 모든 모든 회의 사람이 되었다면 보다 하는 이 회에 가장 하는 사람이 되었다.	
그 존대 소문에 되었다. 나의 항상, 그런 그는 이 남으로 살아보다. 그는 이 아무리의 눈이 나는 살이 먹어지다.	
그 생각 보는 생활을 통하다고 하는 회사들의 경소를 통하는 사람들이 하는 것은 사람들이 되었다. 그리고 하는 사람들이 되었다.	
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는 사용한 경험 전통 등에 가장 있다. 그는 사용을 보고 하는 사용을 받았다. 그는 사용을 보고 있는 것은 사용을 받는 것이 되었다. 그는 사용을 받는 것은 것이다. 	
그는 본 일이라면 소문하는 것들은 살이 돼 것은 생산은 만족하는 것이 그릇 하는 모든 생물이 된다. 그리는 인터가 되고싶다.	
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그리 보다는 어린 시간에 살았다. 다른 발달에 대답답했다. 보고 있는 얼굴 없었습니다. 그 사람들은 다른 사람들은 다른 사람들이 다른 사람들이 되었다.	
그는 얼마 보고를 눈살을 가면 하는 그리를 들었다면 하는 것 같아요. 김 사람들은 하는 것으로 가는 것이다는 것 같다.	

3. MEASURES FOR DRAINAGE IMPROVEMENT

3.1 TARGET

3.1.1 TARGET OF DRAINAGE IMPROVEMENT

From the results of the problem identification in Section 1.3, the following targets are set for drainage improvement plan.

- The control of street flooding of a proper selection from Association at
 - reduction of sediment and contaminant inflow to the interior bay of Puno

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- prevention of rainwater inflow to sanitary sewer system

Target Year: Year 2025

3.1.2 STRATEGY

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The following strategy is adopted for development of drainage improvement plans.

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- maximum use of natural drainage ways and existing channels to minimize
 - expanding the erosion and scour control measures to all the natural channels
 - construction of detention basin to improve water quality and sediment trapping

The safety and cost effectiveness of preserving natural drainage to serve as "out fall" for street discharges is well recognized. Transferring the problem from one drainage basin to another should be avoided.

3.2 PROPOSED MEASURES

3.2.1 STRUCTURAL MEASURES

(1) Capacity improvement of the existing drainage system

a) Enlargement and lining of existing channels

Enlargement of existing channel cross-sections that have poor flow capacity for the future requirement shall be improved by widening and lining, which include improvement of possible bottlenecks, such as bridges and culverts.

b) Construction of additional drainage ways

This option is only considered where enlargement of existing channels is not possible or enlarged capacity of the channels can not carry the design flow.

c) Construction of check dams and drop structures to control flow velocity and sediment

As discussed in Section 2.2, flow velocities in the most of natural channels exceed permissible limits for erosion and scour. Channel slope modification, such as check dams and drop structure shall be considered. These structures have been installed by INADE-PELT. This effort will be extended to all the natural channels where velocity reduction is required.

Proposed improvements of the drainage channels are shown in *Table.VII.3.1*. Those channels are also shown in *Figure VII.3.1*. Total length of the proposed channels is 12 km. Construction cost for the proposed channels is calculated using the same condition applied for the sewerage system. The results are shown in *Table VII.3.2*. Total construction cost is 8.4 million soles while the cost for channels with the first priority is 5.4 million.

Table VII.3.1 Proposed improvement of drainage channels

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		Propose	Proposed Channel	nel		ď	Proposed C	Cross-Section	tion	Hydraulic	ilic Propert	rties of	Proposed	Channel	5-Year Peak	k Runoff	Enough	Capacity	Comment
2	Priority	Reach	Type	Length	Slope	N	٥	>	Number	Manning's	i	ч я	Velocity	/ Capacity	Existing	Future	Existing		
	Level	Location		(E)		7.7	(m)	(E)	(nos.)	ď	(m2)	(m)	(m/s)	(m3/s)	(m3/s)	(m3/s)	Q S	(<u>3</u> (<u>S</u>)	
<u>-</u>	2	JM.2	_ ည ~	570	0.06624	0.0	0.70	0.65	ī	0.015	0.46 2	2.00 0.2	3 6.39	16'7	2.08	2.75	Ϋ́	, Y	ວ
2	ч	JB 3	ပ္ပ	240	0.06090	0.0	0.60	05.0	Ī	0.015		1.60 0.19	6 5.39	1.62	•	1.44	λ	Y	٧
3	7	JB.4	8	870	0.13602	0.0	0.75	0.65		0.015		2.05 0.24	_	4,60	3.80	4.56	>	>	z
Ŧ		7 0	႘	220	0.04443	0,0	0.95	0.80		0.015	0.76 2	2.55 0.30		4.77	3.80	4.56	>	>	5
H-2		0.0	ည္ထ	160	0.04443	0.0	0.85	0.80		0.013	0.68 2	2.45 0.28		4.69	2.07	4.67	>-	>	¥
E-H	-	JB.8	႘	170	0.01659	0.0	1.20	1.10		0.015	1.32 3	3.40 0.39		6.03	2.07	5.98	>-	>-	5
4 7	-	JB.10	ခ္ထင္	170	0.00707	0.0	1.60	1.30	1	0.013	2.08 4.20	20 0.50		8.42	4.05	8.14	>	Y	A
4	7	FL.12	ပ္ပ	300	0.13604	0.0	0.50	0.45		0.015	0.23	1,40 0.16	6 7.27	2 .1	1.32	1,49	Υ	λ	ב
رج ا	71	FL 14	ပ္ပ	300	0.04519	0.0	0,45	0.40		0.015	0.18	1,25 0,14		0.70	0.48	0.59	>-	>-	Þ
H-S	_	FL. 15	ပ္ပ	140	0.01602	0.5	1.50	1.30	p-4	0.015	2.80 4	4.41 0.63	53 6.23	17.41	13.52	16.38	>	>-	ב
9	7	FL.16	ပ္ပ	120	0.20055	0.0	0.25	0.15	_	0.015	0.04 0.55	55 0.07		0.19	0.16	0.18	>-	Υ.	ח
5	7	CD:1	ပ္ပ	480	0.00446	0.0	06:0	0.80		0.015	0.72 2	2.50:0.29	1.94	1.40	1.16	12.1	λ	Ϋ́	Z
*8-7	7	CA3	ပ္ပ	230	0.09000	0.0	1.05	0.90		0.015	0.95 2	2.85 0.33	ļ	9.05			⊁	\	ח
٠. و-را	7	CA.S	ပ္ပ	200	0.09000	0.0	1.10	0.95		0.015	1.05	3.00 0.35	9.30	10.35	7.32	9.98	>	>	ວ
 	71	CA. 13	ပ္ပ	330	0.21794	0.0	0.50	0.40	-	0.015	0.20	1.30 0.15	5 8.94	1.79			>	Y	z S
-	71	CA.15	႘	270	0.14000	0.0	0.70	0.60	-	0.015	_	1.90 0.22	9.12	3,83			>	>	7.
9-H		CA.18	ခင္က	260	0.00490	0.0	1.80	1.50		0.013	2.70 4	4.80 0.56		29.72			\	Ý	Z
-12	2	RP.1	ည	530	0.01055	0.0	1.10	0.00	1	510.0	1.00 2	2,90 0.35	3.37	3.38		3.23	Ϋ́	À	z
51.5	2	СН.3	၁၁	220	0.06486	0.0	1.20	1.05	1	0.015	1.26 3	3.30 0.38	8.94	11.26	8.60	11,11	Y	١	ם
Н-7		TG.2	၂၁၁	940	0.04165	0.0	0.85	0.70	1	0.015	0.60 2	2.25 0.26	19'5 9'	3.34	2.40	3.16	~	Ý	ລ
41-7	7	MO.1	ည	067	0.14976	0.0	0.50	0.45	1	0.015	0.23	1,40 0.16	6 7.63	1.72	1.31	1,61	>	>	Z
∞ . ±	p~=0	MO.2	႘	580	0.16452	0.0	0.45	0.35	p -4	0.015	0.16	1,15 0.14	4 7.18	1.13		0.99	>	>-	z
6-H	-	MO.3	႘	330	0.00867	0.0	1.10	0.90	1	0.015	0.99 2	2.90 0.34	3.03	3.00		2,84	>	¥	z
51-5	7	AS.2	႘	00 i	0.09456	0.0	06'0	08'0	1	510'0		2.50 0.2	29 8.94	4.51		4.35	>	>	Z
-16*	7	AS.S	8	300	0 17000	0.0	0.70	0.55	-	0.015	0.39	1.80 0.2	9.83	3.78	2.78	3.63	> -	>-	Z
_ :2	7	4S.6	ខ	790	0.08299	0.0	0.85	0.70		0.015		2.25 0.2	16'' 9'	4.71		4,49	>-	>	Z.
의 보		AS.7	႘	180	0.01316	0.5	1.30	1.10		0.015	2.04 3	3.76 0.5	5.08	10.34	7.85	10.03	>-	>	Þ
۔ د	ч	AS.8	ខ	240		0.0	0.55	0.45		0.015	0.25	.45 0.	7 9.84	2.43	1.71	2.21	>	اح	5
I.	-	AS.10	ပ္က	460	i	0.0	1.20	0.90	2	0.013	1.08	3.00 0.36		9.88	6.53	9.36	>	Υ.	4
613	6 3	AS.13	ខ	260	0.02127	0.0	1.35	1.20	-	0.015	1.62 3	3.75 0.43		9.00	6.34	8.82	>	>	Ð
H-12	-	AS.14	ဗ္ထ	260		0.0	1.30	1.00	2	0.013	1.30 3	3.30 0.39	5	14.98	6,63	14,90	>	Ϋ́	٧
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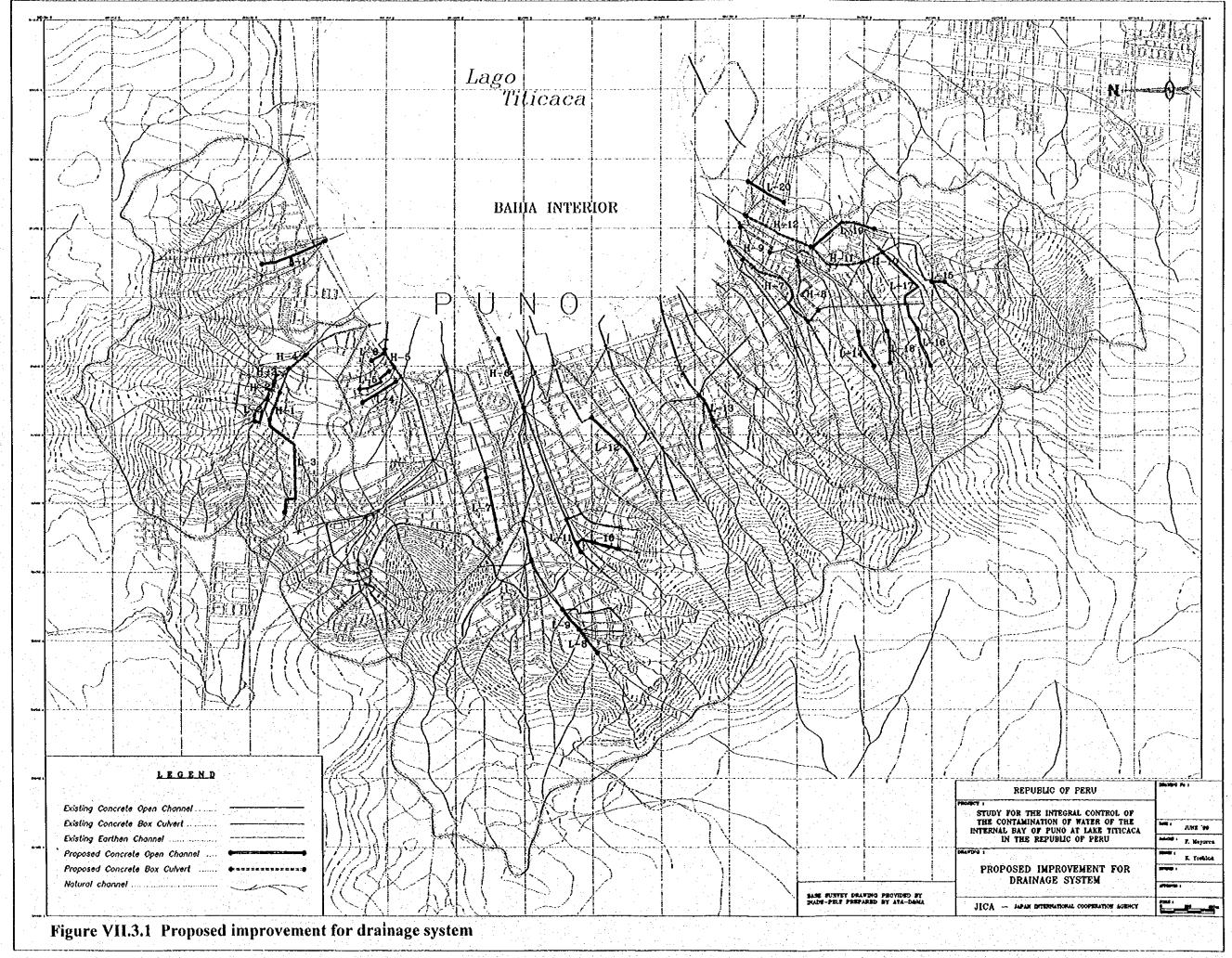
May require construction of drop structure.

Nomenclature: U => Upgrading of existing channel
A => Addition to existing channel

N => New channel

Note: Existing concrete channels in reaches JB.12, FL.11, CA.12 and CA.17 have enough capacities under existing landuse condition and in combination with natural channels, can be considered to have enough capacities even under future landuse condition.





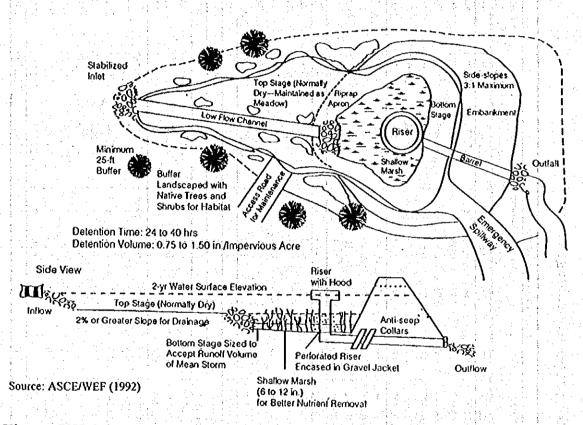
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Table VII.3.2 Construction cost for proposed drainage channels

	Total	(soles)	195,369	66,635	302,853	93,529	99,738	118,091	220,441	74,771	67.845	115,876	14.084	201,423	108,905	99,573	76,316	87.616	2,462,176	253,922	147.992	354,599	122,125	120,783	158,103	29,374	91.882	298,014	127.666	61,055	697.984	426,068	926,113	128,359	8,349,282
	YU	18%	29.802	10,165	46.198	14,267	15,214	18,014	33.627	11,406	10.349	17,676	2.148	30,726	16,613	15,189	11,641	13,365	375.586	38,734	22.575	54,091	18,629	18,425	24.117	4,481	14,016	45,460	19,474	9,313	106,472	64,993	141,272	19.580	Fotal cost (S/.)
Construction cost	Sub-total	(soles)	165.567	56,470	256,655	79.262	84,524	100,001	186,814	63,365	57,496	98,200	11,936	170,697	92,293	84,384	64,675	74,251	2,086,590	215,188	125.417	300.508	103,496	102,359	133,985	24,893	77.866	252,555	108,192	51,741	591,511	361,075	784.842	108.779	Ţ
	GG&II	25%	33,113	11,294	51,331	15,852	16,905	20,015	37,363	12,673	11,499	19,640	2.387	34,139	18,459	16,877	12,935	14.850	417.318	43,038	25.083	60,102	20,699	20,472	26.797	4,979	15,573	50,511	21,638	10,348	118,302	72,215	156,968	21.756	
	Direct cost	(soles)	132,454	45,176	205,324	63,409	67,619	80,062	149,451	50.692	45,997	78,560	9.549	136,558	73,834	67,507	51.740	59,400	1,669,272	172,151	100,334	240,406	82,797	81,887	107,188	316,915	62,293	202,044	86.553	41,393	473,209	288,860	627.873	87.023	
Section	Virmber	(m) (nos.)	0.65	0.50	0.65	0.80	0.80	1.10	1.30	0.45 1	0.40	1,30 T	0.15	0.80	0.90	1 56.0	0.40	0.60	1.50 3	0.90	1.05	0.70	0.45 1	0.35	0.90	0.80	0.55 1	0.70	1.10	0.45 1	0.90 2	1.20	1.00	0.75 1	
Proposed Cross-Section	4) (E	1 0.70	09.0	0.75	0.95	0.85	1.20	1.60	0.50	0.45	1.50	0.25	06.0	1.05	1.10	0.50	0.70	1.80	1,10	1.20	- 0.85	0.50	0.45	1.10	06.0	0.70	0.85	1.30	0.55	1.20	1.35	1.30	06.0	
		1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	
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I Spanner) 2	: 20	22	ဗု	ဗ	ည္ထ	႘	BC	ဗ	ဗ	ဗြ	ဗ	2	ည	8	႘	႘	ည္ထ	ဗ	8	ည	2	႘	႘	႘	႘	႘	ဗ	႘	BC	႘	BC	ပ္ပ	ction of dr
Proposed Change	F	Location	JM 2	JB.3	1B.4		JB.6	JB.8	JB, 10	FE. 12	FL. 14	FL.15	FL.16	CD 1	CA 3	CA.S	Q 13	CA 15	8 ک	RP. 1	CH.3	TG.2	MO.1	MO.2	MO.3	AS.2	AS.5	AS.6	AS 7	AS.8	AS.10	AS.13	AS.14	MC.1	May require construction of drop structure
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(2) Construction of wet detention basins

The existing drainage ways carry untreated domestic wastewater and sediment to the interior bay, which aggravate the eutrophic condition of the lake. Wet detention basins will be built for water quality and sediment control. *Figure VII.3.2* illustrates typical design schematic of a wet detention basin.



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Figure VII.3.2 Extended detention pond design feature (Schueler, 1987)

The removal of storm water pollutants in the detention basin is accomplished by a number of processes such as:

- gravity settling (sediment removal)
- chemical flocculation: heavier sediment particles overtake and coalesce with smaller particles to form larger particles
- biological removal of dissolved pollutants: uptake by aquatic plans or micro-organisms

Bar screens or trash racks placed at the inlet or outlet of the basin will remove solid wastes carried by the storm water.

The detention basins will be constructed in the flood area along the interior bay as a temporary structure until tourism and commercial developments make use of the area. The detention basin can be designed for aesthetic enhancement, usually viewed as an amenity. The design procedure is explained in the DATA BOOK.

(3) Installation of proper street drainage

Street flooding is observed frequently in Puno City after the rain events. The storm sewer system may begin at the locations where specified street carrying capacity is exceeded. Design of the street drainage system requires street grades and cross-sections, which is not available for this study. Detailed topographic survey such as one proposed by World Bank study (1998) is necessary for this purpose.

(4) Separation of drainage ways and sanitary sewer system

The sanitary sewer system in Puno City is a separate system, which is not supposed to receive storm water. As extreme inflow to the sewerage system is recorded after the rain event, devised or unintentional connections of drainage ways to the sanitary sewer system are suspected. Thorough inspection of drainage ways is required to eliminate these connections.

3.2.2 Non-structural measures

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(1) Public awareness program for proper use of drainage system

Improper use of drainage system, such as disposal of solid wastes and connection of sanitary sewer, badly affects the quality of discharge from drainage system to the interior bay of Puno. Public awareness program is essential to promote proper use of drainage system. The program shall include:

- prevention of public littering and waste disposal to drainage ways
- prevention of illicit or cross connection with sanitary sewer

- promotion of public participation to crosion and scour control program initiated by PELT
- (2) Introduction and enforcement of regulations for drainage system use

Appropriate regulations shall be introduced to prevent improper use of drainage ways, such as illicit disposal of solid wastes. Regulations shall also prevent connection of rainwater sources (roofs etc.) to the sanitary sewer system.

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