Project Summary and Justification

Department	Public Utilities
Division	Water Supply & Distribution

The 2006-2012 Capital Improvement Program for the Lincoln Water System has been prepared and updated based upon information and recommendations contained in the 2002 Comprehensive Plan and the 2002 Water Master Plan. These documents are based upon the need to eliminate or reduce existing system deficiencies, replace deteriorating infrastructure, and the need to construct capital facilities in order to ensure that the citizens of the City of Lincoln are supplied with an adequate quantity of high quality water. It is important that these capital improvements be planned judiciously and implemented on a timely basis to provide assurances of meeting these objectives.

Project 1 General System Improvements

a Security Upgrade

To enhance the security of critical water infrastructure.

b Facilities Master Plan

To update the 2002 Master Plan with respect to planned improvements and community growth, required every five years.

c Preliminary Design & Engineering Support

To provide for efforts not directly related to funded projects, i.e., aerial photos, contours, GIS map conversions, etc.

Project 2 Water Supply: Wells, Treatment, and Transmission

a Control System Upgrade

To replace or upgrade hardware, software, and communication wires at treatment plant.

b Additional Supply

To continue to provide water rights, evaluate existing supply capacity, and plan for supply beyond existing facilities.

c Infrastructure Rehabilitation

To make minor improvements to existing production facilities such as windows, doors, gutters, etc.

d Treatment Plant Expansion

To provide at least a 25 MGD plus increase to existing capacity of 110 MGD to water treatment plant.

e Water Supply Wells

To provide at least a 25 MGD plus increase to existing capacity of 110 MGD to water supply wells.

Project 3 Storage Reservoirs

a Floating Storage Reservoir - Cheney Booster District

To construct a new elevated storage reservoir near 98th & Breagan Road, just south of Yankee Hill Rd., to provide fire storage and reliability to growth areas in SE Lincoln.

Project 4 Pump Stations

a "A" St. Pumping Station Upgrades

To provide for the replacement of several pumping systems.

Project Summary and Justification (cont.)

Department Public Utilities

Division Water Supply & Distribution

Project 5 Major Transmission Mains

a Transmission Main to Lincoln

To construct water transmission main to increase capacity above existing 100 MGD to meet growth needs of the city.

b Transmission Main, NE to Vine - Carlos & Eastborough to 88th & Holdrege

To construct transmission main in developing areas near 84th & Holdrege prior to full build out of commercial development.

Project 6 Selected Replacement of Water Facilities or Mains such as:

To replace water distribution mains that have served their useful life. Selection is based on deteriorated condition, opportunity to coordinate with major road project, roadway rehabilitation, or community redevelopment. These projects should improve local water quality and distribution reliability, enhance fire protection, and help avoid disruption to the traveling public.

- a GIS Data Conversion
- b Air Park
- c 20th, "A" to Prospect
- d 2nd, "M" to "J" to 1st
- e Lewis, Nelson to Benton
- f 34th, Lake to Smith to 35th
- g 59th, Schweitzer to Johanna
- h Cornhusker, 1st to NW 4th
- i Glade, 56th to 58th to Normal
- i SW 15th, "A" to Garfield
- k N 56th, Fletcher to valve #8
- 1 St. Paul, 42nd to 47th
- m 37th, Calvert to Prescott
- n 66th, Morrill to Havelock
- o Sumner, 48th to 52nd
- p Replacement of inoperable valves at various locations

Project 7 Distribution Mains - Listed by Impact Fee Benefit Area

To construct water distribution mains such as the following to serve the growth areas as provided in the Comprehensive Plan, coordinated with development and paving schedules where possible. Funds are appropriated for each benefit area to provide flexibility to construct mains as growth and development occur.

a Mains in Area #1

South St., SW 27th to SW 33rd W. Adams, NW 48th to NW 56th Coddington, "A" to "O" NW 56th, "O" to Holdrege to NW 48th Superior, NW 60th to NW 70th

Project Summary and Justification (cont.)

Department Public Utilities

Division Water Supply & Distribution

b Mains in Area #2

Alvo, NW 12th to NW 20th

14th & Alvo to N 27th & Arbor

Fletcher, 14th to 17th

1st & Arbor to NW 12th & Alvo to US 34

c Mains in Area #3

Arbor, 56th to 70th to 1/4 mile south

56th Arbor to ½ mile south of Bluff Rd.

d Mains in Area #4

Adams, 81st to 87th, 91st to 98th to Leighton

Havelock, 70th to 84th

Holdrege, 88th to Stevens Creek

98th, Leighton to "O" St.

"O" St., 84th to 98th

"O" St., 98th to 112th

e Mains in Area #5

98th, Pine Lake to Yankee Hill

f Mains in Area #6

Rokeby, 33rd to 40th

84th, Amber Hill to Yankee Hill

Yankee Hill, 70th to 84th

Rokeby, 40th to 48th

Yankee Hill, 56th to 84th

70th, Yankee Hill to Rokeby

g Mains in Area #7

Folsom, Pioneers to Old Cheney

Folsom, Old Cheney to W. Denton

Old Cheney, 1st to SW 12th

Coddington, Van Dorn to Pioneers to Old Cheney

Old Cheney, Coddington to SW 12th

Project 8 Distribution Capacity/Subsidies to Street Construction

a Distribution System Capacity Cost

To provide for subsidy to developer to construct 12-inch mains on half mile grid to provide adequate flow for fire protection and to subsidize costs over the maximum assessment rate on water districts.

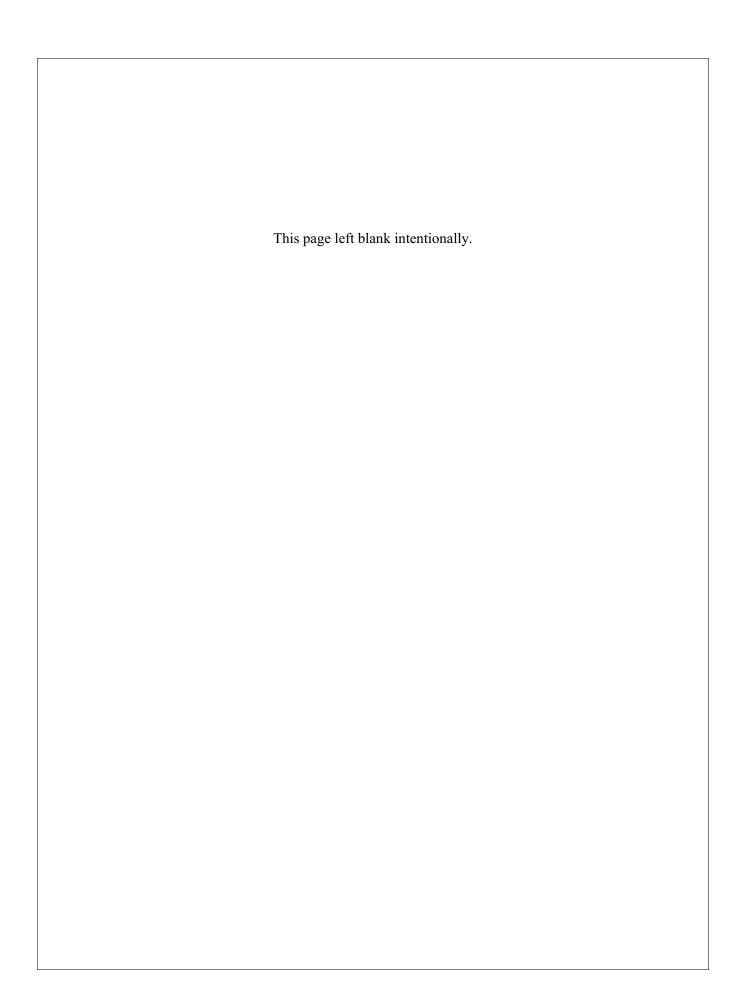
b.1 Subsidies to Street Construction

To pay for the cost of relocating mains that conflict with roadway line and grade on Major Road Projects.

b.2 Subsidies to Antelope Valley

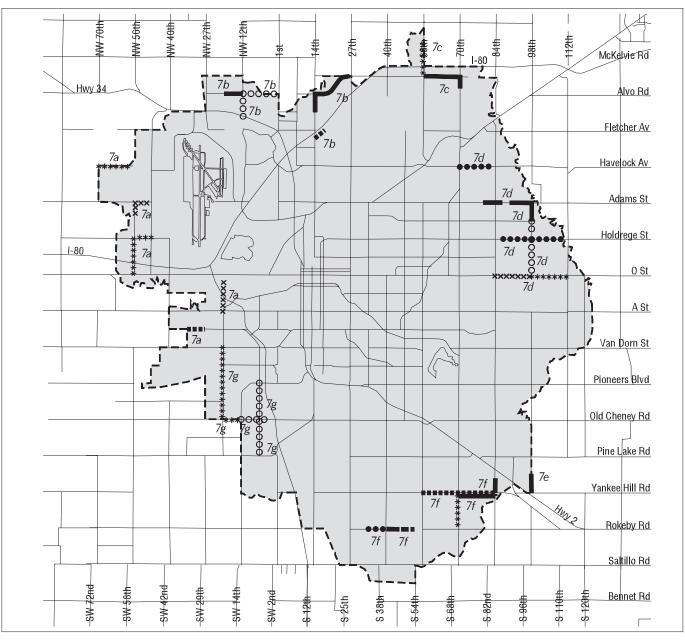
To pay for the cost of relocating mains that conflict with roadway and channel line and grade on Antelope Valley Projects.

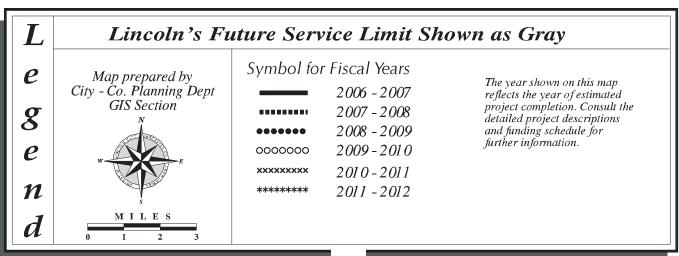
Department	Public Utilities							
Division	Water Supply & Distribution							
The City Council, by the adoption of the Annual Budget, hereby authorizes the acquisition of all necessary rights-of-way, easements, or other interests in land, by purchase if possible, by condemnation if necessary, for those projects included within the first year of said Capital Improvement Program.								



Lincoln CIP 2006 - 2012

Public Utilities Lincoln Water System





List of Projects Department: Public Utilities/Water Supply and Distribution

Project Number Project Title

- 1* General System Improvements
- 2* Water Supply Wells, Treatment, and Transmission
- 3* Storage Reservoirs
- 4* Pump Stations
- 5* Major Mains
- 6* Selected Replacement of Mains
- 7 Distribution Mains
- 8* Distribution Capacity/Subsidies to Street Construction

*Indicates project is NOT shown on the map.

		D	EPARTMENT:	P	PUBLIC UTILITIES								FORM A	
2006 -	- 2012 CAPITAL IMPROVEMENT PROGRAM		DIVISION:	W	VATER SUP	PLY	& DISTRIBUT	ΓΙΟΝ	1					
(1)	(2)	(3)	3% Inflation per ye	ear				(4)						
				F	PROGRAM	MED	EXPENDITUI	RES	& FUNDING	so	URCES (FS)	(000	's)	
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	2006-2007 F			FS		FS		FS	2010-2011	FS	2011-2012	FS
1	General System Improvements A. Security Upgrade - 701222	Α	500.0 UI	IR	500.0	UR							500.0	UR
	B. Facilities Master Plan	Α	600.0 R	В									600.0	UR
	C. Preliminary Design & Engineering Support - 506005	A	30.0 UI	IR	50.0	UR	50.0	UR	50.0	UR	50.0	UR	50.0	UR
	TOTAL PROJECT 1		1,130.0		550.0		50.0		50.0		50.0		1,150.0	
2	Water Supply - Wells, Treatment & Transmission	Α												
	A. Control System Upgrade - Ashland	Α	960.0 RI	В										
	B. Additional Supply - 506010	Α	300.0 R	RB	300.0	RB	300.0	RB	300.0	UR	300.0	UR	300.0	RB
	C. Infrastructure Rehab	Α	60.0 UI	IR	60.0	UR	65.0		65.0		70.0			UR
	D. Treatment Plant Expansion (25+ MGD) ** E. Water Supply Wells (25+ MGD) **	A			840.0	DD	1,670.0 680.0 4,150.0	IF	6,950.0 730.0 4,220.0	IF	7,260.0 700.0	RB IF	760.0 750.0	- 1
	,													
	TOTAL PROJECT 2		1,320.0		1,200.0		6,865.0		12,265.0		8,330.0		1,880.0	
3	Storage Reservoirs A. Floating Storage Reservoir - C B S - 98th & Breagan Rd - 701825	Α	3,340.0 R	₿										
	TOTAL PROJECT 3		3,340.0											
4	Pump Stations A. "A" St PS Upgrades	Α	100.0 R	ВВ	400.0	RB								
	TOTAL PROJECT 4		100.0		400.0									
5	Major Mains													
	A. Transmission Main to Lincoln - Greenwood - NE - 506212 B. Transmission Main to Lincoln - NE - Vine - 506212	A A	300.0 RI 1,250.0 IF		8,650.0 630.0		7,770.0	RB						
	B. Transmission Main to Lincoin - NE - Vine - 506212 Carlos & Eastborough to 88th & Holdrege NEPS to 88th & Holdrege	A	3,200.0 RI	В									1,000.0	RB
	TOTAL PROJECT 5		4,750.0		9,280.0		7,770.0						1,000.0	

DATE SUBMITTED: 1/27/2006 DATE REVISED: 3-16-06 FILE NAME: PUDWS01 Page I-1 (a)

											FORM	В
(5)	(6)	(7)	(8)	(9)	(10)				(11)			(1)
, ,	COST		TOTAL			COST	BREAKDOW	NS FOR SIX		ENDITURES ((000's)	
SIX YEARS	BEYOND 2011-2012	PRIOR APPROPRIATIONS	CAP COSTS (000's)	COMP	STATUS	PRELIM	FINAL	LAND ACQUISI-		EQUIP /	OTHER	PROJ
(000's)	(000's)	(000's) YEAR FS	1 '	CONFORM		PLANS	PLANS	TION	CONST	FURNISH	(EXPLAIN)	NO.
1,500.0	NA	2,550.0 03-06	4,050.0	GCP	2		355.0		3,195.0			1
1,200.0	Ongoing	NA	1,200.0	GCP	0	440.0						
280.0	Ongoing	NA	280.0	GCP	0	280.0						
2,980.0												
												2
960.0	Ongoing	NA	960	GCP	1	96.0			864.0			
1,800.0	Ongoing	NA	1,800.0	GCP	0	1,800.0						
390.0	Ongoing	NA	390.0	GCP	1	40.0			360.0			
19,890.0	890.0	None	20,780.0	GCP	2	1,888.0			16,992.0			
9,210.0	None	None	9,210.0	GCP	2	921.0			8,289.0			
32,250.0												
												3
3,340.0	None	None	3,840.0	GCP	2	384.0			3,456.0			
3,340.0												
0,01010												4
500.0	None	None	500.0	GCP								
500.0												
												5
18,600.0	None	1,400.0 05-06	20,000.0	GCP	2		1,500.0	500.0	18,000.0			
4,200.0	12,000.0	500.0 05-06	16,700.0	GCP	2		1,000.0	700.0	15,000.0			
22,800.0												
											Page I-1	

Page I-1 (b)

		D	EPARTMENT:	PUBLIC UTILITE	ES			FORM A						
2006 -	2012 CAPITAL IMPROVEMENT PROGRAM		DIVISION:	WATER SUPPLY	& DISTRIBUTION	N								
(1)	(2)	(3)	% Inflation per year		(4)									
				PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)										
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	2006-2007 FS	2007-2008 FS	2008-2009 FS	2009-2010 FS	2010-2011 FS	2011-2012 FS						
6	Selected Replacement of Mains such as - #700210: Projects such as: GIS Data Conversion Air Park 20th, "A" to Prospect 2nd, "M" to "J" to 1st Lewis, Nelson to Benton, 34th, Lake to Smith to 35th, 59th, Schweitzer to Johanna, Cornhusker, 1st to NW 4th, Glade, 56th to 58th to Normal SW 15th, "A" to Garfield, N 56th, Fletcher to valve #8 St Paul, 42nd to 47th 37th, Calvert to Prescott 66th, Morril to Havelock Sumner, 48th to 52nd Inoperable valves at various locations	A	2,700.0 RB	2750.0 RB	2,800.0 RB	1955.0 RB 945.0 UR	3000.0 RB	3100.0 RB						
	TOTAL PROJECT 6		2,700.0	2,750.0	2,800.0	2,900.0	3,000.0	3,100.0						
7	Distribution Mains such as - by Impact Fee Benefit Area A. Mains in Area # 1 - 703100 South St, SW 27th to SW 33rd Bel West Adams, NW 48th to NW 56th Bel Coddington, "A" to "O" Bel NW 56th, "O" to Holdrege to NW 48th Bel Superior, NW 60th to NW 70th Bel B. Mains in Area # 2 - 703200 Alvo, NW12th to NW 20th NWB 14th & Alvo to N 27th & Arbor Bel	** A	200.0 UR 100.0 IF 1,350.0 UR 159.0 DC	250.0			500.0 800.0	1,200.0 500.0						
	Fletcher, 14th to 17th Bel 1st & Arbor to NW 12th & Alvo to US 34 NWB C. Mains in Area # 3 - 703300 Arbor, 56th to 70th and 1/4 mile south LD 56th, Arbor to 1/2 mi S of Bluff Rd D. Mains in Area # 4 - 703400 Adams, 81st to 87th, 91st to 98th to Leighton HD Havelock, 70th to 84th LD Holdrege, 88th to Stevens Creek HD	A	720.0 RB 60.0 IF	150.0	810.0 1,430.0	720.0		900.0						

DATE SUBMITTED: 1-27-2006 DATE REVISED: 3-16-06 FILE NAME: PUDWS02 Page I-2 (a)

COST BEYOND PRIOR CAP COST CAP COS												FORM	В		
Second S	(5)	(6)	(7)	(8)	(9)	(10)				(11)			(1)		
Secure Part Secure Sec									COST	BREAKDOW	NS FOR SIX	YEAR EXPE	NDITURES	(000's)	
17.290.0 Ongoing NA 17280 GCP 1 1728.0 15.525.0 15.525.0 17.290.0		2011-2012	APPROPRIATIONS	(000's)	PLAN	OF			ACQUISI-				PRO.		
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1,509.0 None None 1,509.0 GCP 1 150.9 1,358.1 150.0 None None 150.0 GCP 1 15.0 135.0 720.0 None None 720.0 GCP 1 72.0 648.0 1,710.0 None None 1,710.0 GCP 1 171.0 1,539.0 780.0 None None 780.0 GCP 1 78.0 702.0 810.0 None None 810.0 GCP 1 81.0 729.0	300.0	None	None	300.0	GCP	1		30.0		270.0					
150.0 None None 150.0 GCP 1 15.0 135.0 720.0 None None 720.0 GCP 1 72.0 648.0 1,710.0 None None 1,710.0 GCP 1 171.0 1,539.0 780.0 None None 780.0 GCP 1 78.0 702.0 810.0 None None 810.0 GCP 1 81.0 729.0	1,509.0	None	None	1,509.0	GCP	1		150.9		1,358.1					
720.0 None None 720.0 GCP 1 72.0 648.0 1,710.0 None None 1,710.0 GCP 1 171.0 1,539.0 780.0 None None 780.0 GCP 1 78.0 702.0 810.0 None None 810.0 GCP 1 81.0 729.0		None	None		GCP	1		15.0		135.0					
1,710.0 None None 1,710.0 GCP 1 171.0 1,539.0 780.0 None None 780.0 GCP 1 78.0 702.0 810.0 None None 810.0 GCP 1 81.0 729.0															
780.0 None None 780.0 GCP 1 78.0 702.0 810.0 None None 810.0 GCP 1 81.0 729.0	. 20.0		116.116	7.20.0	.	·		. 2.0		0.0.0					
810.0 None None 810.0 GCP 1 81.0 729.0	1,710.0	None	None	1,710.0	GCP	1		171.0		1,539.0					
810.0 None None 810.0 GCP 1 81.0 729.0	700.0	. .	Non		605					700.0					
1,430.0 None None 1,430.0 GCP 1 143.0 1,287.0															
	1,430.0	None	None	1,430.0	GCP	1		143.0		1,287.0					
Page I-2													(b)		

		D	FORM A							
2006 -	2012 CAPITAL IMPROVEMENT PROGRAM		DIVISION:	,	WATER SUPPLY	& DISTRIBUTION	N			
(1)	(2)	(3)	% Inflation per yea	ar		(4)				
					PROGRAMMED	EXPENDITURES	8 & FUNDING SO	URCES (FS) (000)'s)	
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	2006-2007 FS		2007-2008 FS	2008-2009 FS	2009-2010 FS	2010-2011 FS	2011-2012	FS
7	Distribution Mains such as - (continued) 98th, Leighton to "O" St HD						1,100.0			
	Sout, Edigition to G of The						1,100.0			
	"O" St, 84th to 98th HD							1,200.0		
	"O" St, 98th to 112th HD								1,300.0	
	E. Mains in Area # 5 - 703500	Α								
	98th, Pine Lake to Yankee Hill		120.0 IF	=						
	F. Mains in Assa # C. 700000									
	F. Mains in Area # 6 - 703600 Rokeby, 33rd to 40th HD	Α				460.0				
	,									
	84th, Amber Hill to Yankee Hill CB		360.0 UF	R						
	Yankee Hill, 70th to 84th CB		500.0 UF	R	200.0					
	Rokeby, 40th to 48th SE		200.0 UF	R	130.0					
	Yankee Hill, 56th to 84th SE				2,920.0					
	70th, Yankee Hill to Rokeby SE								900.0	
	G. Mains in Area # 7 - 703700	А								
	Folsom, Pioneers to Old Cheney Bel						700.0			
	Folsom, Old Cheney to W Denton Bel						700.0			
							====			
	Old Cheney, 1st to SW 12th Bel						700.0			
	Coddington, Van Dorn to Pioneers to Old Cheney Old Cheney, Coddington to SW 12th								1,300.0 350.0	
	TOTAL PROJECT 7		4,579.0		420.0 UR	1,080.0 UR	1,800.0 UR	0.0 UR	0.0	UF
					2,910.0 RB	1,280.0 RB	1,760.0 RB	2,050.0 RB	5,980.0	RE
_					320.0 IF	340.0 IF	360.0 IF	450.0 IF	470.0	IF
8	Distribution Capacity/Subsidies to Street Construction									
	A. Distribution System Capacity Cost - 506050	Α	350.0 UF	R	370.0 UR	380.0 UR	400.0 UR	420.0 UR	440.0	UF
	B.1 Subsidies To Street Construction - 701690	Α	450.0 UF	R	400.0 UR	100.0 UR	500.0 UR	380.0 UR	300.0	UF
	B.2 Subsidies to Antelope Valley - 701690	Α	50.0 UF	R	100.0 UR	400.0 UR	150.0 UR	120.0 UR	0.0	
	TOTAL PROJECT 8		850.0		870.0	880.0	1,050.0	920.0	740.0	
	FUNDING SOURCE BREAKDOWN:									
	DC (Developer's contribution)		159.0		0.0	0.0	0	0	0.0	
	RB (Revenue Bonds)		13,030.0		15,850.0	17,970.0	14,885.0	12,310.0	11,140.0	
	UR (Utility Revenue)		4,050.0		1,900.0	2,075.0	4,210.0	1,340.0	1,960.0	
	IF (Impact Fee Revenue)		1,530.0		950.0	1,020.0	1,090.0	1,150.0	1,220.0	
	DIVISION TOTALS		18,769.0		18,700.0	21,065.0	20,185.0	14,800.0	14,320.0	
			.,					,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			DEVICED: 2.40							

DATE SUBMITTED: 1/27/2006 DATE REVISED: 3-16-06 FILE NAME: PUDWS03 Page I-3 (a)

												FORM	В
(5)	(6)		(7)	(8)	(9)	(10)				(11)			(1)
	COST			TOTAL			COST	BREAKDOW	NS FOR SIX	YEAR EXPE	NDITURES	(000's)	
SIX YEARS (000's)	BEYOND 2011-2012 (000's)	PRIOR APPROPRIATI (000's)	IONS YEAR FS	(000's) (5)+(6)+(7)	COMP PLAN CONFORM	STATUS OF PLANS	PRELIM PLANS	FINAL PLANS	LAND ACQUISI- TION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)	PROJ NO.
(0000)	(000 0)	(666.6)		(5)*(5)*(1)							· Granica	(274 27 414)	7
1,100.0	None	None		1,100.0	GCP	7		110.0		990.0			
1,200.0	None	None		1,200.0	GCP	1		120.0		1,080.0			
1,300.0	None	None		1,300.0	GCP	1		130.0		1,170.0			
120.0													
460.0	None	None		460.0	GCP	7		33.0		297.0			
360.0	None	None		360.0	GCP	1		292.0		2,628.0			
700.0	None	None		700.0	GCP	1		70.0		630.0			
330.0	None	None		330.0	GCP	1		67.0		603.0			
2,920.0	None	None		2,920.0	GCP	1		36.0		324.0			
900.0	None	None		900.0	GCP	1		25.0		225.0			
700.0	Nana	Nama		700.0	000			70.0		C20.0			
700.0	None	None		700.0	GCP	1		70.0		630.0			
700.0	None	None		700.0	GCP	1		70.0		630.0			
700.0	None	None		700.0	GCP	1		70.0		630.0			
1,650.0	None None	None None		1,650.0	GCP	1		165.0		1,485.0			
39,639.0													

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(b)

2,360.0

2,130.0

820.0

5,310.0

159.0 85,185.0 15,535.0 6,960.0

107,839.0

Ongoing

Ongoing

Ongoing

NA

NA

NA

2,360.0

2,130.0

820.0

GCP

GCP

GCP

0

0

0

226.0

218.0

122.0

2,034.0

1,962.0

1,098.0

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